
PUBLIC PRIVATE PARTNERSHIPS BOOST ALZHEIMER'S DISEASE DRUG DISCOVERY UNDER THE AUSPICES OF IMI

08:00 **REGISTRATION & COFFEE**

08:30 **INTRODUCTION AND WELCOME**

E. Vaudano, Belgium

08:45 **SETTING THE SCENE: FROM SPECIMEN TO BIO MARKER? HARMONISATION OF BIO BANK SOP'S IN THE DISCOVERY OF NOVEL CANDIDATE BIO MARKERS FOR AD**

R. Ravid, The Netherlands

BIOMARKERS USEFUL FOR DETECTING PRESYMPTOMATIC AD ARE ALSO USEFUL IN REVEALING MECHANISMS OF DISEASE

M. Deleon, USA

09:35 **BREAK**

09:45 **INTRODUCTION TO IMI**

EFPIA (speaker TBA): WHY IMI: THE INDUSTRIAL PERSPECTIVE

EC (speaker TBA): THE PLACE OF IMI IN THE LANDSCAPE OF EU FUNDED AD RESEARCH

10:35 **PHARMACOG: TACKLING THE BOTTLENECKS IN AD DRUG DISCOVERY**

PHARMACOG: AD DRUG DISCOVERY FROM BENCH TO BEDSIDE

M. O'Neil, UK

TOOLS TO IMPROVE DECISION MAKING IN DRUG DEVELOPMENT - TOWARDS BETTER CLINICAL STUDY DESIGNS.

A. Auffret, France

BRINGING THE PATIENT'S PERSPECTIVE TO DRUG DISCOVERY CHALLENGES

J. Georges, Luxembourg

11:45 **GETTING THE BROAD PICTURE: FROM EUROPE, TO US AND BEYOND; IS THIS THE CORRECT AFFILIATION?): GLOBAL REGULATORY QUALIFICATION OF BIOMARKERS IN AD**

M. Cantillion, USA

12:10 **GENERAL DISCUSSION, ROUND TABLE**

MEMORY LOSS IN ALZHEIMER DISEASE: UNDERLYING MECHANISMS AND THERAPEUTIC TARGETS UNDER THE AUSPICES OF MEMOSAD

Chairpersons: **B. De Strooper**, *Belgium*
E.-M. Mandelkow, *Germany*

Project Summary The project aims at defining the molecular mechanisms of Abeta- and Tau-induced synaptotoxicity and at developing disease-modifying therapeutics for the prevention of memory loss in Alzheimer disease (AD). This disease, an incurable brain disorder and the major contributor to dementia, is characterized by insoluble aggregates in the brain of affected individuals formed by Abeta peptides and the microtubule-binding protein Tau. Recent data suggest that Abeta aggregation precedes and triggers Tau pathology. One of the early and characteristic symptoms in AD is memory loss. Several lines of evidence suggest that the onset of memory decline does not require neuronal loss, is independent of plaques and tangles and is due to subtle and transient changes at the level of synapses. The toxic Abeta and Tau species that cause synaptic dysfunction, their mechanism of toxicity and the link between both pathologies remain largely unknown. In the past three years we employed primary neuronal cultures and animal models (C.elegans, zebrafish, and mouse) to define the pathologic pathways leading from Abeta through Tau to synaptotoxicity. In a first set of experiments, we investigated the effect of defined Abeta species on long-term potentiation, synaptic morphology, gene expression, Tau phosphorylation and aggregation, axonal transport, and behaviour. Similarly, we investigated the functional consequences of Tau misfunction, aggregation, hyperphosphorylation, and missorting in various cell culture systems (retinal ganglion cells, primary hippocampal neurons, organotypical slices) and animal models, especially with regard to intraneuronal traffic and synaptic function. Once the toxic Abeta and Tau species and their mechanism of toxicity had been defined, we investigated how these pathways interact. Unravelling the pathologic pathways that lead from Abeta through Tau to synaptotoxicity and memory loss should reveal novel points for therapeutic intervention.

08:30 **WELCOME AND INTRODUCTION**
F. Adlkofer, *Germany*

08:40 **AGING-ASSOCIATED CHANGES DRIVE THE GAMMA-SECRETASE COMPLEX TOWARDS INCREASED PRODUCTION OF NEUROTOXIC ABETA42 PEPTIDE**
F.X. Guix, T. Wahle, G. Ill-Raga, E. Ramos, C. Guardia-Laguarta, A. Lleó, M.A. Valverde, F.J. Muñoz, C. Dotti, B. De Strooper, *Belgium, Spain*

08:55 **GPR3 MODULATION OF THE GAMMA-SECRETASE COMPLEX AND ABETA GENERATION IN ALZHEIMER'S DISEASE**
A. Thathiah, K. Horré, A. Skwarek-Maruszewska, B. De Strooper, *Belgium*

09:10 **BIOCHEMICAL CHARACTERIZATION OF AD BRAIN-DERIVED WATER-SOLUBLE ABETA**
J.M. McDonald, S. Kumar, N. Cairns, D.M. Holtzman, J. Walter, C. Glabe, D.M. Walsh, *Ireland, Germany, USA*

09:25 **CHRONIC TREATMENT WITH TAUROURSODEOXYCHOLIC ACID AMELIORATES MEMORY DEFICITS IN APP/PS1 MICE, A MOUSE MODEL FOR ALZHEIMER'S DISEASE**
A.C. Lo, R.J.S. Viana, B. De Strooper, C.M.P. Rodrigues, R. D'Hooge, *Belgium, Portugal*

MEMORY LOSS IN ALZHEIMER DISEASE: UNDERLYING MECHANISMS AND THERAPEUTIC TARGETS, UNDER THE AUSPICES OF MEMOSAD (contd.)

- 09:40 **BETA-AMYLOID IMPAIRS GENE TRANSCRIPTION MEDIATED BY THE CAMP RESPONSIVE ELEMENT BINDING PROTEIN (CREB) CO-ACTIVATOR CRCT1**
J. Valero, J. España, A. Miñano-Molina, R. Masgrau, E. Martín,
C. Guardia-Laguarta, A. Lleó, L. Giménez-Llort, J. Rodríguez-Alvarez, C.A. Saura, *Spain*
- 09:55 **SEN1500, AN INHIBITOR OF ABETA OLIGOMER TOXICITY PROTECTS MEMORY IN MODELS OF ALZHEIMER'S DISEASE**
D.I.C. Scopes, E. O'Hare, P. Palmer, R. Jeggo, M. Jones, A.D. Whyment,
D. Spanswick, E.-M. Kim, H. Amijee, E. Nerou, J.M. Treherne, *UK*
- 10:10 **ABETA OLIGOMERS CAUSE LOCAL MISSORTING OF ENDOGENOUS TAU INTO DENDRITES, TAU PHOSPHORYLATION, DESTRUCTION OF MICROTUBULES AND SPINES**
H. Zempel, E. Thies, E. Mandelkow, E.-M. Mandelkow, *Germany*
- 10:25 **SEARCH FOR SMALL MOLECULE INHIBITORS OF MARK/PAR-1 AND DEVELOPMENT OF A NOVEL BIOSENSOR FOR MARK ACTIVITY IN LIVING NEURONS**
T. Timm, J.P. von Kries, X. Li, J. Biernat, E.-M. Mandelkow, *Germany*
- 10:40 **TAU: MORE THAN A MAP**
M.-C. Galas, A. Sultan, F. Nessler, M. Violet, S. Humez, S. Bégard, N. Zommer,
Z. Mansuroglu, S. Talahari, A. Loyens, N. Sergeant, D. Marzin, E. Bonnefoy, M. Colin,
L. Buée, *France*
- 10:55 **MEMORY LOSS IN THE THY-TAU22 TRANSGENIC MICE: RELEVANCE TO ALZHEIMER'S DISEASE-LIKE TAU PATHOLOGY**
L. Buée, S. Burnouf, A. Van der Jeugd, K. Belarbi, T. Ahmed, M. Hamdame,
V. Buée-Scherrer, D. Balschun, R. D'Hooge, D. Blum, *France, Belgium*
- 11:10 **MODELING TAUOPATHIES IN ZEBRAFISH**
B. Schmid, D. Paquet, F. van Bebber, C. Haass, *Germany*
- 11:25 **A WORM MODEL OF TAUOPATHY**
C. Fatouros, J.P. Ghulam, E. Mandelkow, E.-M. Mandelkow, J. Biernat, R. Baumeister,
E. Schmidt, *Germany*

SYMPOSIUM 1: CHALLENGES AND POTENTIAL TREATMENTS IN AD AND PD

Chairpersons: F. Stocchi, *Italy*
A. Schapira, *UK*

- 12:30 **WHY HAVE WE FAILED TO FIND A CURE FOR AD?**
A.D. Korczyn, *Israel*
- 12:50 **NEW PLAYERS IN THE TREATMENT OF PARKINSON'S DISEASE**
F. Stocchi, *Italy*
- 13:10 **MOLECULAR AND CLINICAL PRODROME OF PARKINSON'S DISEASE:
IMPLICATIONS FOR TREATMENT**
A.H.V. Schapira, *UK*
- 13:30 **DELIVERY OF AAV2-NRTN INTO SUBSTANTIA NIGRA IS SAFE, EFFECTIVE, AND
SUPPORTS NIGRAL TARGETING OF CERE-120 IN PARKINSON'S DISEASE**
R.T. Bartus, L. Brown, A. Wilson, B. Kruegel, J. Siffert, E. Johnson, Jr., J.H. Kordower,
C.D. Herzog, *USA*
- 13:50 **ACTIVE IMMUNIZATION AGAINST AMYLOID: A β 1-6/ Q β (CAD106) REMOVES β -
AMYLOID FROM THE BRAIN, DOES NOT INDUCE A β -REACTIVE T-CELLS AND IS
WELL TOLERATED IN A FIRST-IN-MAN STUDY IN AD**
J.-M. Orgogozo, A. Graf, M. Staufenbiel, N. Andreasen, B. Winblad, *France,
Switzerland, Sweden*
- 14:10 **VALIDITY, SIGNIFICANCE, STRENGTHS, LIMITATIONS, AND EVIDENTIARY
VALUE OF REAL-WORLD CLINICAL DATA FOR COMBINATION THERAPY IN
ALZHEIMER'S DISEASE: COMPARISON OF EFFICACY & EFFECTIVENESS
STUDIES**
A. Atri, S. Rountree, O. Lopez, R. Doody, *USA*

SYMPOSIUM 2: ANIMAL MODELS FOR AD, PD AND PRION DISEASES

Chairpersons: F. LaFerla, *USA*
TBA

- 12:30 **TRANSLATING DISCOVERIES FROM MOUSE MODELS TO THE CLINIC: SUCCESSES AND CHALLENGES**
F. LaFerla, *USA*
- 12:50 **PROPAGATION OF PATHOLOGY AND FUNCTIONAL IMPAIRMENT IN MICE WITH ENTORHINAL CORTEX RESTRICTED EXPRESSION OF ABERRANT APP OR TAU**
K. Duff, L. Liu, H. Moreno, S. Small, *USA*
- 13:10 **GSK3 CONTROLS LIFE-SPAN, BREATHING ACTIVITY AND UPPER AIRWAY DYSFUNCTION OF TAU-P301L MICE**
C. Menuet, T. Jaworski, I. Dewachter, B. Lechat, L. Gielis, P. Borghgraef, H. Devijver, G. Hilaire, F. Van Leuven, *France, Belgium*
- 13:30 **EARLY MOLECULAR AND ELECTROPHYSIOLOGICAL CHANGES IN PRE-SYMPTOMATIC ANIMAL MODELS OF COGNITIVE IMPAIRMENTS AND ALZHEIMER'S DISEASE**
R. Quirion, C.-E. Benoit, J. Brouillette, C. Cavanagh, J.-G. Chabot, M. Farso, R. Goutagny, J. Jackson, C. Menard, F. Vercauteren, S. Williams, S. Krantic, *Canada*
- 13:50 **S100A9 KNOCKDOWN AND KNOCKOUT ATTENUATE THE LEARNING AND MEMORY IMPAIRMENT AND THE NEUROPATHOLOGY IN TG2576 MICE**
Y.-H. Suh, *Republic of Korea*
- 14:10 **A TRANSMISSIBLE MOUSE MODEL OF E200K FCJD: A PLATFORM FOR THE SEARCH OF PRECLINICAL TREATMENTS FOR ASYMPTOMATIC CARRIERS OF PATHOGENIC PRP MUTATIONS**
Y. Friedman-Levy, Z. Meiner, T. Canello, G.G. Kovacs, H. Budka, D. Avrahami, R. Gabizon, *Israel, Austria*

SYMPOSIUM 3: A-BETA TOXICITY: CAUSES 1

Chairpersons: T. Saido, *Japan*
TBA

- 12:30 **A-BETA-MEDIATED GLUTAMATE RELEASE FROM ASTROCYTES**
S. Sanz-Blasco, J. Piña-Crespo, M. Talantova, S.A. Lipton, *USA*
- 12:50 **THE CALCIUM ENTRY PATHWAY INDUCED BY AMYLOID BETA OLIGOMERS IN ALZHEIMER'S DISEASE**
E. Caballero, C. Villalobos, L. Nuñez, *Spain*
- 13:10 **AN EX VIVO MODEL TO DETERMINE DISEASE-RELEVANT PATHWAYS AND THERAPEUTIC APPROACHES FOR ALZHEIMER'S DISEASE**
C. Tackenberg, A.C. Santuccione, M. Merlini, R. Brandt, R.M. Nitsch, *Switzerland, Germany*
- 13:30 **CELLULAR PRION PROTEIN MEDIATES TOXIC SIGNALING OF A-BETA OLIGOMERS**
U. Resenberger, A. Harmeier, G. Multhaup, K.F. Winklhofer, J. Tatzelt, *Germany*
- 13:50 **THE ROLE OF CYCLIN DEPENDENT KINASE 5 (CDK5) AND P53 IN AMYLOID BETA (A B 1-42) AND NAC PEPTIDE TOXICITY. CONTRIBUTION TO ALZHEIMER'S DISEASE PATHOMECHANISM**
A. Kaźmierczak, G.A. Czapski, M. Cieřlik, M. Songin, J.B. Strosznajder, *Poland*
- 14:10 **A NOVEL FUNCTION OF A B IN GENE REGULATION AS AN ALTERNATIVE PATHWAY OF TOXICITY**
C. Barucker, A. Harmeier, J. Weiske, K.F. Albring, B. Fauler, R. Lurz, O. Huber, G. Multhaup, *Germany*

SYMPOSIUM 4: RISK FACTORS IN NEURODEGENERATIVE DISEASES

Chairpersons: R. Blesa, *Spain*
TBA

- 12:30 **CANONICAL PATHWAYS INVOLVED IN THE PRODROMAL AND MOTOR PHASE OF PARKINSON'S DISEASE**
A.A. Dijkstra, A. Ingrassia, Z. Bochdanovits, P. Heutink, W.D.J. van de Berg, *The Netherlands*
- 12:50 **SUBSEQUENT RISKS OF PARKINSON DISEASE IN PATIENTS WITH AUTOIMMUNE AND RELATED DISORDERS: A NATION-WIDE EPIDEMIOLOGICAL STUDY FROM SWEDEN**
X. Li, J. Sundquist, J. Ji, K. Hemminki, K. Sundquist, *Sweden, USA, Germany*
- 13:10 **CARDIORESPIRATORY FITNESS AND AGE-RELATED BRAIN CHANGES: A COMMUNITY-BASED MRI AND EXERCISE ECG STUDY**
P. Gider, R. Schmidt, M. Cavalieri, R. Zweiker, N. Watzinger, H. Schmidt, *Austria*
- 13:30 **BRAIN BIOPSY IN 468 PATIENTS WITH PRESUMED NORMAL PRESSURE HYDROCEPHALUS**
V. Leinonen, A.M. Koivisto, I. Alafuzoff, O.T. Pyykkö, J. Rummukainen, M. von und zu Fraunberg, J.E. Jääskeläinen, H. Soininen, J. Rinne, S. Savolainen, *Finland, Sweden*
- 13:50 **PIN1 CONTRIBUTION TO ALZHEIMER'S (AD) DISEASE: TRANSCRIPTIONAL AND EPIGENETIC MECHANISMS IN SUBJECTS WITH LATE ONSET AD AND IN A RARE CASE OF MONOZYGOTIC TWINS DISCORDANT FOR THE DISEASE**
C. D'Addario, B. Arosio, A. Bulbarelli, A. Casè, E. Lonati, C. Abbate, S. Bastias Candia, S. Candeletti, P. Romualdi, L. Bergamaschini, *Italy*
- 14:10 **PREVALENCE OF VASOGENIC EDEMA IN TWO ALZHEIMER'S DISEASE STUDY COHORTS AT BASELINE**
J. Barakos, C. Carlson, W. Estergard, J. Oh, J. Suhy, C. Jack, E. Siemers, *USA*

Wednesday, March 9, 2011

14:30-15:30

Hall D

EXHIBITION, POSTERS, LIGHT LUNCH AND INFORMAL NETWORKING WITH THE PROFESSOR

15:40-17:10

Hall A

PLENARY LECTURES 1 - 3

Chairpersons: I. Hanin, *USA*
R.M. Nitsch, *Switzerland*
M. Windisch, *Austria*

15:40 THE UBIQUITIN PROTEOLYTIC SYSTEM - FROM BASIC MECHANISMS THROUGH HUMAN DISEASES AND ONTO DRUG DEVELOPMENT
A. Ciechanover, *Israel*

16:10 GENETICS OF LATE-ONSET NEURODEGENERATIVE BRAIN DISEASES
C. Van Broeckhoven, *Belgium*

16:40 THE HISTORY OF NEUROLOGY AND RESEARCH IN ALZHEIMER'S AND PARKINSON'S DISEASE IN SPAIN
I. Ferrer, *Spain*

17:10-18:45

Hall A

OPENING CEREMONY

17:10 OPENING CEREMONY

18:45 WELCOME RECEPTION IN EXHIBITION AREA

Thursday, March 10, 2011

07:30-08:30

Hall B

**AZILECT - MOLECULAR AND CLINICAL PRODROME OF PARKINSON'S DISEASE:
IMPLICATIONS FOR TREATMENT
LUNDBECK / TEVA MEET THE EXPERT SESSION**

07:30 **AZILECT - MOLECULAR AND CLINICAL PRODROME OF PARKINSON'S
DISEASE: IMPLICATIONS FOR TREATMENT**
A. Schapira, *UK*

07:30-08:30

Hall C

MEET THE EXPERT

07:30 **MEET THE EXPERT**

07:30-08:30

Hall D

MEET THE EXPERT

07:30 **MEET THE EXPERT**

08:30-09:00

Hall A

PLENARY LECTURE 4

Chairperson: R.M. Nitsch, *Switzerland*

08:30 **ROLE OF ENDOGENOUS NEURAL STEM CELLS IN NEURODEGENERATIVE
DISEASE**
O. Lindvall, *Sweden*

SYMPOSIUM 5: IMMUNOTHERAPY: TREATMENT & PREVENTION

Chairpersons: C. Hock, *Switzerland*
B. Solomon, *Israel*

- 09:10 **HUMAN ANTIBODIES AGAINST BETA-AMYLOID WITH THERAPEUTIC PROPERTIES**
J. Grimm, K.J. Rhodes, T. Engber, M. Maier, P. Weinreb, T. Bussiere, B. Dunsten, N. Pederson, J.H. Growdon, A. Sandrock, C. Hock, R.M. Nitsch, *Switzerland, USA*
- 09:30 **OPPOSING ROLES OF MICROGLIAL ACTIVATION IN AMYLOID DEPOSITING AND TAU DEPOSITING TRANSGENIC MICE**
D. Morgan, D. Lee, M. Brownlow, M.-L. Selenica, P. Reid, J. Alvarez, M.N. Gordon, *USA*
- 09:50 **THIRD GENERATION EPITOPE VACCINES FOR ALZHEIMER'S DISEASE**
M.G. Agadjanyan, *USA*
- 10:10 **EVALUATION OF AB-TARGETING IMMUNOTHERAPY IN THE NON HUMAN PRIMATE *MICROCEBUS MURINUS***
S. Trouche, A. Boutajangout, A. Asuni, S. Rouland, T. Maurice, E. Sigurdsson, J.-M. Verdier, N. Mestre-Frances, *France, USA*
- 10:30 **NEUTRALIZATION OF SOLUBLE AB SPECIES BY THE N-TERMINAL ANTI-AB ANTIBODY 3D6**
W. Zago, M. Buttini, T.A. Comery, P. Seubert, D. Games, F. Bard, S. Schroeter, R. Barbour, D. Schenk, G.G. Kinney, *USA*
- 10:50 **ANTIBODY-ASSISTED CLEARANCE OF EXTRACELLULAR A-SYNUCLEIN BY MICROGLIA PREVENTS CELL-TO-CELL AGGREGATE TRANSMISSION**
E.-J. Bae, H.-J. Lee, E. Rockenstein, D.-H. Ho, E.-B. Park, P. Desplats, E. Masliah, S.-J. Lee, *Republic of Korea, USA*

**PYROGLUTAMATE A β – TARGET IN AD DRUG DISCOVERY
PROBIODRUG SPONSORED SYMPOSIUM**

Chairpersons: H.-U. Demuth, *Germany*
C.A. Lemere, *USA*

- 09:10 **EFFECT OF NEPRILYSIN DEFICIENCY ON DEPOSITION OF PYROGLUTAMYL AMYLOID BETA PEPTIDE AND APOLIPOPROTEIN E IN APP-TG MICE**
T.C. Saido, N. Iwata, *Japan*
- 09:30 **PYROGLUTAMATE-MODIFIED B-AMYLOID AMPLIFIES CYTOTOXICITY OF CONVENTIONAL B-AMYLOID**
J.M. Nussbaum, S. Schilling, H.-U. Demuth, G.S. Bloom, *USA, Germany*
- 09:50 **DIVERSE CELLULAR MECHANISMS CONTRIBUTE TO HIPPOCAMPAL N-PYROGLUTAMATE-ABETA DEPOSITION**
S. Roßner, M. Hartlage-Rübsamen, A. Waniek, C. Jäger, U. Zeitschel, B. Koch, H. Cynis, S. Schilling, R. Schliebs, H.-U. Demuth, M. Morawski, *Germany*
- 10:10 **APP(SL) X HQC DOUBLE TRANSGENIC MICE SHOW INCREASED PYROGLUTAMATE-AB LOAD AND EARLY BEHAVIORAL CHANGES**
S. Schilling, B. Hutter-Paier, S. Graubner, H. Cynis, S. Kurat, S. Manhart, M. Windisch, H.-U. Demuth, *Germany, Austria*
- 10:30 **OVEREXPRESSION OF GLUTAMINYL CYCLASE, THE ENZYME RESPONSIBLE FOR PYROGLUTAMATE ABETA FORMATION, INDUCES BEHAVIORAL DEFICITS AND GLUTAMINYL CYCLASE KNOCK-OUT RESCUES THE BEHAVIORAL PHENOTYPE IN 5XFAD MICE**
T. Bayer, S. Jawhar, O. Wirths, S. Schilling, S. Graubner, H.-U. Demuth, *Germany*
- 10:50 **GLUTAMINYL CYCLASES ARE TARGETS FOR THE TREATMENT OF INFLAMMATION IN THE CENTRAL NERVOUS SYSTEM**
H. Cynis, R. Eichentopf, A. Kehlen, S. Graubner, B. Koch, A. Alexandru, T. Hoffmann, S. Rossner, S. Schilling, H.-U. Demuth, *Germany*
- 11:10 **IMMUNOTHERAPY TARGETING PYROGLUTAMATE-3 AB STRONGLY REDUCES PLAQUE BURDEN IN 2 AD-LIKE TRANSGENIC MOUSE MODELS**
C.A. Lemere, J.L. Frost, B. Liu, Q. Shi, S.B. Matousek, H. Fu, M. Kleinschmidt, S. Schilling, H.-U. Demuth, *USA, Germany*

Thursday, March 10, 2011

09:10-11:10

Hall C

SYMPOSIUM 7: NEUROGENESIS, STEM CELLS AND GROWTH FACTORS

Chairpersons: L. Virginia K-Y, *USA*
E. Melamed, *Israel*

- 09:10 **ADULT STEM CELLS: A POTENTIAL THERAPY FOR PARKINSON'S DISEASE**
E. Melamed, *Israel*
- 09:30 **PATHWAYS MEDIATING BDNF REGULATION AND COGNITIVE IMPAIRMENT IN ALZHEIMER'S DISEASE**
M. Fahnstock, *Canada*
- 09:50 **NEUROPROTECTION BY GDNF AND A PHYSICAL EXERCISE THERAPY IN THE 3XTGAD MOUSE MODEL**
S. Revilla, C. Suñol, L. Gimenez-Llort, C. Sanfeliu, R. Cristófol, *Spain*
- 10:10 **A β ₄₂-P75 NEUROTROPHIN RECEPTOR DEATH SIGNALLING THROUGH G-PROTEIN ACTIVATED INWARDLY RECTIFYING POTASSIUM (GIRK) CHANNELS: A NEW MECHANISM OF EXCITOTOXIC NEURONAL DEATH?**
L.M. May, E.J. Coulson, *Australia*
- 10:30 **B-AMYLOID MECHANISMS AND REGENERATION IN ALZHEIMER'S DISEASE**
A. Marutle, *Sweden*
- 10:50 **CELL THERAPY WITH MULTI-POTENT AUTOLOGOUS MESENCHYMAL STROMAL STEM CELLS FOR TREATMENT OF NEURODEGENERATIVE DISORDERS - PAST ACHIEVEMENTS AND FUTURE GOALS**
S. Slavin, C. Brodie, *Israel*

Thursday, March 10, 2011

09:10-11:10

Hall D

SYMPOSIUM 8: ANIMAL MODELS 2

Chairpersons: **A.C. Cuello**, *Canada*
 K. Ashe, *USA*

- 09:10 **PRE-PLAQUE (“PRECLINICAL”) ABETA-INDUCED INFLAMMATION AND NGF Deregulation in Transgenic Models of AD-Like Amyloid Pathology**
 A.C. Cuello, M.T. Ferretti, M.F. Iulita, *Canada*
- 09:30 **MOLECULAR INTERPLAY BETWEEN MTOR, AB AND TAU: EFFECTS ON COGNITIVE IMPAIRMENTS**
 A. Caccamo, S. Majumder, A. Magri, **S. Oddo**, *USA*
- 09:50 **THE MYSTERY OF TAU AND ALPHA-SYNUCLEIN INTERACTION**
 M.G. Spillantini, R. Vuono, S. Valenti
- 10:10 **DIETARY INDUCTION OF TYPE 2 DIABETES AND EXPERIMENTAL DEPLETION OF ANDROGENS INCREASES AD-LIKE PATHOLOGY IN MALE 3XTG-AD MICE**
 E.R. Rosario, A. Barron, M. Brown, C.J. Pike, *USA*
- 10:30 **NEURONAL SUMOYLATION AND ITS CONTRIBUTIONS TO FORM, FUNCTION AND NEURODEGENERATIVE DISEASES**
 S. Matsuzaki, T. Katayama, M. Tohyama, B. Raught, **P. Fraser**, *Canada, Japan*
- 10:50 **MODELING SPORADIC PARKINSON’S DISEASE BY SILENCING THE UBIQUITIN E3 LIGASE COMPONENT, SKP1A IN CELL CULTURE AND *IN VIVO***
 S.A. Mandel, T. Fishman-Jacob, L. Reznichenko, M.B. Youdim, *Israel*

11:10-11:40

EXHIBITION, POSTERS AND COFFEE BREAK

Thursday, March 10, 2011

11:40-13:20

Hall A

**CURRENT THEORIES AND MECHANISMS BEING STUDIED FOR THE TREATMENT OF
NEURODEGENERATIVE DISEASES
ELAN SPONSORED SYMPOSIUM**

Chairperson: G. Kinney, *USA*

- 11:40 **SECRETASES – ARE THEY STILL GOOD TARGETS FOR ANTI-AMYLOID THERAPEUTICS?**
E. Koo, *USA*
- 12:00 **EFFECTS OF SCYLLO-INOSITOL TREATMENT ON DISEASE-SPECIFIC PATHWAYS IN THE TGCRND8 MOUSE MODEL OF ALZHEIMERS DISEASE**
J. McLaurin, A. Lai, K. Ma, D. Fenili, M. Brown, J. Shaw, *Canada*
- 12:20 **AMYLOID IMAGING AS A SURROGATE MARKER IN CLINICAL TRIALS IN ALZHEIMER'S DISEASE**
J.O. Rinne, *Finland*
- 12:40 **PARKINSON'S DISEASE: WHAT IS AN IDEAL ANIMAL MODEL?**
M. Buttini, *USA*
- 13:00 **TRUE AND FALSE INHIBITORS OF AMYLOID-B SELF-ASSEMBLY**
C. Lendel, B. Bolognesi, A. Abelein, A. Wahlström, T. Härd, C.M. Dobson, A. Gräslund, *Sweden, UK*

13:30-14:40

EXHIBITION, POSTERS, LUNCH AND INFORMAL NETWORKING WITH THE PROFESSOR

Thursday, March 10, 2011

14:40-16:40

Hall A

SYMPOSIUM 9: DRUG DISCOVERY AND DEVELOPMENT 1: AD, PD AND ALPHA-SYNUCLEIN AGGREGATION

Chairpersons: R. Quirion, *Canada*
TBA

14:40 **TITLE TBA**
TBA

15:00 **MUSCARINIC M₁ RECEPTORS MODULATE ALZHEIMER DISEASE PATHOLOGY AND COGNITIVE DECLINE**
R. Medeiros, M. Kitazawa, A. Caccamo, D. Baglietto-Vargas, T. Estrada-Hernandez, D.H. Cribbs, F.M. LaFerla, *USA*

15:20 **INHIBITION OF NITRATED A-SYNUCLEIN OLIGOMERS WITHIN THE SUBSTANTIA NIGRA LEADS TO THERAPEUTIC BENEFITS IN MULTIPLE ANIMAL MODELS OF PARKINSON'S DISEASE**
K. Barnham, *Australia*

15:40 **INHIBITING A-SYNUCLEIN OLIGOMERIZATION BY STABLE CELL-PENETRATING B-SYNUCLEIN FRAGMENTS IN PARKINSON'S DISEASE**
R. Shaltiel-Karyo, M. Frenkel-Pinter, N. Egoz-Matia, A. Frydman-Marom, D.E. Shalev, D. Segal, E. Gazit, *Israel*

16:00 **GAMMA-SECRETASE AS A TARGET FOR ALZHEIMER DISEASE THERAPY: WILL WE SUCCEED?**
C.E. Augelli-Szafran, Y. Gu, D. Lu, P. Osenkowski, D.J. Selkoe, H.-X. Wei, M.S. Wolfe, T. Yang, W. Ye, J. Zhang, *USA*

16:20 **EVP-0015962, A GAMMA SECRETASE MODULATOR FOR THE TREATMENT OF ALZHEIMER'S DISEASE**
K. Rogers, L. Leventhal, H. Patzke, Z. Tu, F. Albayya, S. Nolan, M. Wen, S. Hopp, D. Spaulding, Z. Yang, H. Hodgdon, L. Hrdlicka, D. Costa, G. Shapiro, D. Flood, K. Felsenstein, G. Koenig, *USA*

Thursday, March 10, 2011

14:40-16:40

Hall B

SYMPOSIUM 10: CLINICAL 1: AD, MCI, PD, CLINICAL, GENETIC AND THERAPEUTIC ASPECTS

Chairpersons: **M. Boada Rovira, *Spain***
 W.C. Olanow, *USA*

14:40 **PROTEINS AND PD**
 W.C. Olanow, *USA*

15:00 **HIPPOCAMPAL NGF SIGNALING DYSFUNCTION IN PRODROMAL ALZHEIMER'S DISEASE**
 E.J. Mufson, B. He, S. Perez, S.E. Counts, J. Wu, S.W. Scheff, *USA*

15:20 **GENETIC POLYMORPHISMS OF PROTEINS RELATED TO REELIN SIGNALING PATHWAY IN ALZHEIMER'S DISEASE**
 R. Blesa, *Spain*

15:40 **THE EFFECTS OF PHENOTYPE, GENOTYPE AND TREATMENT ON THE NATURAL HISTORY OF MILD COGNITIVE IMPAIRMENT**
 M. Boada, P. Martínez-Lage, I. Hernández, M. Alegret, A. Espinosa, G. Viñas, A. Mauleón, M. Rosende, A. Ruiz, S. Valero, L. Tárraga, *Spain*

16:00 **OLFACTORY DEFICITS AND EXECUTIVE DYSFUNCTION IN PARKINSON DISEASE**
 T. Parrao, P. Chana, P. Venegas, M.L. Aylwin, *Chile*

16:20 **META-ANALYSIS OF IMPUTED SEQUENCE VARIANTS REVEALS EXTENSIVE AND NOVEL GENETIC RISK FOR PARKINSON'S DISEASE INTERNATIONAL PARKINSON'S DISEASE GENOMICS CONSORTIUM (IPDGC)**
 A. Singleton, *USA*

SYMPOSIUM 11: INFLAMMATORY MEDIATORS IN NEURODEGENERATION

Chairpersons: S. Efthimiopoulos, *Greece*
P. St George-Hyslop, *Canada*

- 14:40 **NOVEL INSIGHTS INTO INFLAMMATORY MEDIATORS OF NEURODEGENERATIVE PATHOLOGIES**
T. Golde, C. Ceballos-Diaz, P. Cruz, W. Kou, T. Ladd, A. Beccard, P. Das, P. Chakrabarty, *USA*
- 15:00 **MOLECULAR MEDIATORS OF AMYLOIDOSIS-INFLAMMATION COUPLING IN ALZHEIMER'S DISEASE: *IN VIVO* EVIDENCE IN HUMANS AND ANIMAL MODELS**
M. Higuchi, *Japan*
- 15:20 **THE EFFECTS OF B-AMYLOID ON INFLAMMATORY AND NEUROPLASTIC PROCESSES REGULATING HUMAN EMBRYONIC STEM CELL DIFFERENTIATION**
L. Wicklund, L. Hertwig, O. Hovatta, T. Darreh-Shori, A. Nordberg, A. Marutle, *Sweden*
- 15:40 **INCREASED BLOOD-BRAIN BARRIER VULNERABILITY TO SYSTEMIC INFLAMMATION IN ALZHEIMER DISEASE MOUSE MODEL**
S. Takeda, N. Sato, H. Rakugi, R. Morishita, *Japan*
- 16:00 **SUSTAINED OVEREXPRESSION OF INTERLEUKIN 1B LEADS TO EXACERBATED TAU PATHOLOGY DESPITE REDUCED AMYLOID LOAD IN THE 3XTGAD MICE**
S. Ghosh, M.D. Wu, J.A. Olschowka, M.K. O'Banion, *USA*
- 16:20 **MICROGLIA ACTIVATION IN NEUROINFLAMMATION: IMPLICATION FOR THE ETIOLOGY OF NEURODEGENERATION**
T. Nagatsu, Y.S. Kaneko, A. Nakashima, K. Mori, I. Nagatsu, A. Ota, *Japan*

Thursday, March 10, 2011

14:40-16:40

Hall D

SYMPOSIUM 12: A-BETA TOXICITY: CAUSES 2

Chairpersons: **N.C. Inestrosa, *Chile***
 C. Masters, *Australia*

14:40 **AB AND A-SYNUCLEIN OLIGOMERS AS TRACTABLE TARGETS FOR ALZHEIMER'S AND PARKINSON'S DISEASE DIAGNOSTICS AND THERAPEUTICS**
 C. Masters, *Australia*

15:00 **ACTIVATION OF WNT SIGNALING PATHWAY PREVENTS AB OLIGOMERS NEUROTOXICITY**
 N.C. Inestrosa, L. Varela-Nallar, *Chile*

15:20 **PATHOLOGICAL ROLE AND MECHANISM OF NEURONAL CELL CYCLE RE-ENTRY IN ALZHEIMER DISEASE**
 H.-G. Lee, H.-P. Lee, W. Kudo, X. Zhu, M.A. Smith, *USA*

15:40 **PROGRESSION OF INTRANEURONAL AB PATHOLOGY IN BRAIN VISUALIZED BY HIGH RESOLUTION 3D RECONSTRUCTION**
 E. Capetillo-Zarate, L. Gracia, R.H. Takahashi, D. Tampellini, T.A. Milner, J.R. Bandelder, G.K. Gouras, *USA, Japan*

16:00 **SIGNALING MECHANISM FROM ENDOPLASMIC RETICULUM COLLAPSE TO INDUCTION OF AUTOPHAGY IN NEURONS STRESSED WITH LOW MOLECULAR WEIGHT BETA-AMYLOID PEPTIDES**
 R.C.-C. Chang, N.Q.-S. Zhang, C.H.-L. Hung, Y.-S. Ho, S. Wuwongse, *Hong Kong S.A.R.*

16:20 **EPIGENETIC CHANGES RELATED TO BETA-AMYLOID - IMPLICATIONS FOR ALZHEIMER'S DISEASE**
 C. Unger Lithner, C.M. Hernandez, J.D. Sweatt, A. Nordberg, *Sweden, USA*

16:40-17:10

EXHIBITION, POSTERS AND COFFEE BREAK

SYMPOSIUM 13: GENETIC ASPECTS IN NEURODEGENERATION

Chairpersons: J. Hardy, *UK*
R. Tanzi, *USA*

17:10 **GENETIC ANALYSIS FOLLOWING UP GENOME WIDE ASSOCIATION ANALYSIS**
J. Hardy, *UK*

17:30 **ALZHEIMER'S DISEASE: GENES, PATHWAYS, AND EMERGING THERAPIES**
R. Tanzi, *USA*

17:50 **DO THE NEW AD GENES ACT VIA AN ABETA-DEPENDENT OR AN A-BETA-
INDEPENDENT MECHANISM**
P. St George-Hyslop, L. Hazrati, E. Rogaeva, *Canada, UK*

18:10 **UPDATE ON GENETICS OF PARKINSONISM**
Z.K. Wszolek, *USA*

18:30 **WHOLE GENOME INTERROGATIONS HIGHLIGHT ALTERNATIVE SPLICING
MODULATIONS IN ALZHEIMER'S AND PARKINSON'S DISEASE**
A. Berson, L.T. Soreq, G. Shaltiel, Y. Goll, A. Halberstam, S. Barbash, D.S. Greenberg,
Z. Israel, H. Bergman, H. Soreq, *Israel*

18:50 **EXOME SEQUENCING IDENTIFIES VPS35 MUTATIONS IN PARKINSON DISEASE**
C. Vilarino-Guell, C. Wider, O.A. Ross, J.C. Dachsel, S.J. Lincoln, J.M. Kachergus,
A.I. Soto-Ortolaza, S.A. Cobb, G.J. Wilhoite, J.A. Bacon, B. Behrouz, H.L. Melrose,
E. Hentati, A. Puschmann, E. Conibear, W.W. Wasserman, J.O. Aasly, P.R. Burkhard,
R. Djaldetti, J. Ghika, F. Hentati, A. Krygowska-Wajs, T. Lynch, E. Melamed, A. Rajput,
A.H. Rajput, A. Solida, R.-M. Wu, R.J. Uitti, Z.K. Wszolek, F. Vingerhoets, M.J. Farrer,
Canada, Switzerland, USA, Norway, Israel, Tunisia, Poland, Ireland

**RECENT ADVANCES IN UNDERSTANDING THE ROLE OF BETA AMYLOID IN THE PATHOGENESIS OF ALZHEIMER'S DISEASE
THE ALZHEIMER'S IMMUNOTHERAPY PROGRAM (AIP) OF JANSSEN ALZHEIMER IMMUNOTHERAPY AND PFIZER INC SPONSORED SYMPOSIUM**

Moderator: D. Schenk, *USA*

- 17:10 **SOLUBLE AB OLIGOMERS ISOLATED DIRECTLY FROM AD CORTEX ARE SUFFICIENT TO INDUCE MULTIPLE PHENOTYPIC FEATURES OF ALZHEIMER'S DISEASE**
D.J. Selkoe, *USA*
- 17:30 **MECHANISMS OF NETWORK SYNCHRONIZATION AND COGNITIVE DECLINE IN MOUSE MODELS OF ALZHEIMER'S DISEASE**
J.J. Palop, *USA*
- 17:50 **PREVENTION VS. INTERVENTION, OR ONE DRUG GOOD, TWO DRUGS BETTER: COMBINATION THERAPY IMPROVES AMYLOID CLEARANCE IN TRANSGENIC MICE**
A. Wang, P. Das, R.C. Switzer, III, T.E. Golde, J.L. Jankowsky, *USA*
- 18:10 **BIOMARKER PREDICTORS OF ALZHEIMER'S DISEASE (AD): IDENTIFICATION OF PATIENTS BEFORE AD DEMENTIA ONSET FOR PREVENTION AND EARLY INTERVENTION CLINICAL TRIALS**
E. Liu, *USA*
- 18:30 **VASOGENIC EDEMA IN ANTI-AMYLOID THERAPEUTIC TRIALS - TOWARDS UNDERSTANDING THE PATHOPHYSIOLOGICAL MECHANISMS**
R. Sperling, *USA*
- 18:50 **WHY SHOULD WE STILL BE FOCUSED ON ANTI-AMYLOID APPROACHES; WHAT IS THE FUTURE IN THIS SPACE**
D. Schenk, *USA*

SYMPOSIUM 15: MITOCHONDRIAL IMPAIRMENTS AND TREATMENTS IN NEURODEGENERATION

Chairpersons: A.D. Korczyn, *Israel*
TBA

- 17:10 **MITOCHONDRIAL IMPAIRMENT PLAYS A CRITICAL ROLE IN THE PATHOGENESIS OF ALZHEIMER'S DISEASE AND PARKINSON'S DISEASE AND THERAPEUTIC APPROACHES**
M.F. Beal, *USA*
- 17:30 **INTERPRETING THE RESULTS OF THE ADAGIO DELAYED-START STUDY: A MITOCHONDRIAL MECHANISM OF ACTION FOR RASAGILINE**
P. Jenner, *UK*
- 17:50 **STRUCTURAL AND FUNCTIONAL ABNORMALITIES OF MITOCHONDRIA IN APP MOUSE BRAIN**
B.J. Bacskai, *USA*
- 18:10 **MITOCHONDRIAL METABOLIC CONTROL OF MICROTUBULE DYNAMICS IMPAIRS THE AUTOPHAGIC PATHWAY IN PARKINSON'S DISEASE**
S.M. Cardoso, A.R. Esteves, D.M. Arduino, I. Gozes, R.H. Swerdlow, C.R. Oliveira, *Portugal, Israel, USA*
- 18:30 **A-SYNUCLEIN TOXICITY MITIGATED BY MITOCHONDRIAL CHAPERONE PROTEIN TRAP1**
A. Voigt, E. Butler, J.B. Schulz, *Germany*
- 18:50 **AMYLOID BETA PEPTIDE OLIGOMERS STIMULATE SUSTAINED Ca^{2+} RELEASE MEDIATED BY RYANODINE RECEPTORS IN HIPPOCAMPAL NEURONS, PROMPTING MITOCHONDRIAL FRAGMENTATION AND PREVENTING BDNF-INDUCED SPINE REMODELING**
A.C. Paula-Lima, T. Adasme, C. SanMartin, S. Härtel, M.A. Carrasco, C. Hidalgo, *Chile*

SYMPOSIUM 16: BIOMARKERS AND THEIR PREDICTIVE VALUES IN AD AND PD

Chairpersons: B. Dubois, *France*
C. Sampaio, *Portugal*

- 17:10 **PROGNOSTIC VALUE OF CSF BIOMARKERS FOR ALZHEIMER'S DISEASE IN SUBJECTS WITH MILD COGNITIVE IMPAIRMENT: A CLINICAL FOLLOW-UP STUDY OVER 9.2 YEARS**
P. Buchhave, L. Minthon, H. Zetterberg, Å. Wallin, K. Blennow, O. Hansson, *Sweden*
- 17:30 **CEREBROSPINAL FLUID BIOMARKERS FOR ALZHEIMER'S DISEASE HAVE HIGHEST DIAGNOSTIC ACCURACIES IN THE YOUNGEST OLD**
N. Mattsson, H. Zetterberg, O. Hansson, N. Andreasen, L. Parnetti, M. Jonsson, S.-K. Herukka, W.M. van der Flier, M.A. Blankenstein, M. Ewers, K. Rich, E. Kaiser, M. Verbeek, M. Tsolaki, E. Mulugeta, E. Rosén, D. Aarsland, P.J. Visser, J. Schröder, J. Marcusson, M. de Leon, H. Hampel, P. Scheltens, A. Wallin, M. Eriksdotter Jönhagen, L. Minthon, B. Winblad, K. Blennow, *Sweden, Italy, Finland, The Netherlands, USA*
- 17:50 **CEREBROSPINAL FLUID AB1-42 IS A BIOMARKER FOR PRECLINICAL ALZHEIMER'S DISEASE: RESULTS FROM THE PROSPECTIVE POPULATION STUDY OF WOMEN IN GOTHENBURG**
H. Zetterberg, X. Guo, S. Östling, A. Börjesson-Hanson, D.R. Gustafson, K. Blennow, I. Skoog, *Sweden*
- 18:10 **DETECTION OF ELEVATED LEVELS OF A-SYNUCLEIN OLIGOMERS IN CSF FROM PARKINSON'S DISEASE PATIENTS**
O.M. El-Agnaf, T. Tokuda, M. Qureshi, M. Ardah, S. Varghese, T. Kasai, N. Ishigami, A. Tamaoka, M. Nakagawa, *United Arab Emirates, Japan*
- 18:30 **PLASMA TRANSTHYRETIN AS A BIOMARKER FOR ALZHEIMER'S DISEASE**
L. Velayudhan, R. Killick, A. Hye, A. Kinsey, A. Guentert, S. Lynham, R. Leung, S. Lovestone, *UK*
- 18:50 **IDENTIFICATION OF HALLMARK AMYLOID- β PLAQUES IN ALZHEIMER'S DISEASE RETINA: PROSPECT FOR NONINVASIVE EARLY DIAGNOSIS AND IMMUNOTHERAPY ASSESSMENT**
M. Koronyo-Hamaoui, Y. Koronyo, A.V. Ljubimov, C.A. Miller, B. Salumbides, M. Pham, R.M. Cohen, D.L. Farkas, M. Schwartz, K.L. Black, *USA, Israel*

Friday, March 11, 2011

07:30-08:30

Hall B

LUNDBECK MEET THE EXPERT SESSION

07:30 EBIXA – COGNITIVE DECLINE IN OLD AGE AND DEMENTIA. IS IT POSSIBLE TO CHANGE ITS COURSE?

07:30-08:30

Hall C

EXONHIT MEET THE EXPERT SESSION

07:30 FROM DIAGNOSIS TO TREATMENT: HOW BLOOD BIOMARKERS COULD IMPACT THE PRACTICE? THE EXAMPLE OF EXONHIT PORTFOLIO

07:30-08:30

Hall D

EVER NEURO PHARMA GMBH MEET THE EXPERT SESSION

07:30 MULTIMODAL APPROACH IN ALZHEIMER'S DISEASE TREATMENT – TOWARD A NEW PARADIGM
E. Masliah, *USA*
A. Alvarez, *Spain*

08:30-09:00

Hall A

PLENARY LECTURE 5

Chairperson: J. Avila, *Spain*

08:30 RECENT ADVANCES OF THE ROLE OF TDP-43 IN NEURODEGENERATIVE DISEASES
M. Neumann, *Switzerland*

SYMPOSIUM 17: FTLD AND TDP-43

Chairpersons: J. Trojanowski, *USA*
TBA

- 09:10 **AN INDUCIBLE TRANSGENIC MOUSE MODEL OF PARKINSON'S DISEASE DEMENTIA**
J.Q. Trojanowski, *USA*
- 09:30 **CELLULAR MECHANISMS OF FRONTOTEMPORAL LOBAR DEGENERATION WITH UBIQUITIN-POSITIVE INCLUSIONS (FTLD-U)**
C. Haass, D. Dormann, D. Edbauer, S. Liebscher, E. Bentmann, B. Schmid, A. Capell, *Germany*
- 09:50 **THE PROTEIN INTERACTION NETWORK OF PROGRANULIN AND TDP-43**
T. Kukar, P. Robertson, K. Jansen-West, T. Golde, R. Rademakers, R. Peteresen, *USA*
- 10:10 **ACTIVATION OF THE UNFOLDED PROTEIN RESPONSE IS AN EARLY EVENT IN THE PATHOLOGY OF AD, PD AND FTLD-TAU**
J. Hoozemans, D. Nijholt, E. Van Haastert, A. Rozemuller, W. Scheper, *The Netherlands*
- 10:30 **REGULATION OF TAU SPLICING BY FACTORS LOCATED ON CHROMOSOME 21: A LINK BETWEEN DOWN SYNDROME AND FRONTOTEMPORAL DEMENTIA**
Y. Wang, L. Gao, S.-W. Tse, S. Stamm, A. Andreadis, *USA*
- 10:50 **SEEDING OF NORMAL TAU BY PATHOLOGICAL TAU CONFORMERS DRIVES PATHOGENESIS OF ALZHEIMER-LIKE TANGLES**
V.M.-Y. Lee, J.L. Guo, *USA*

**ADVANCED DRUG DEVELOPMENT IN NEURODEGENERATIVE DISORDERS: CAN WE INCREASE THE SUCCESS?
JSW / HARLAN SPONSORED SYMPOSIUM**

Chairpersons: H.-U. Demuth, *Germany*
M. Windisch, *USA*

- 09:10 **THE IMPORTANCE OF CONDUCTING SCREENING STUDIES FOR DRUG CANDIDATE SELECTION BEFORE THE REGULATORY PRECLINICAL DEVELOPMENT**
C. Maraschiello, *Spain*
- 09:30 **REDUCING VARIABLES AFFECTING THE INTERPRETATION OF TOXICOLOGY STUDIES**
K. Weber, *Switzerland*
- 09:50 **IMPORTANCE OF COMPREHENSIVE PHENOTYPING OF TG ANIMAL MODELS OF HUMAN NEURODEGENERATIVE DISORDERS FOR THEIR USE IN PREDICTIVE DRUG TESTING**
S. von Hörsten, *Germany*
- 10:10 **ANIMAL MODELS OF ALZHEIMER'S DISEASE: WHAT CAN WE DO TO INCREASE THEIR PREDICTIVE VALUE FOR DRUG DEVELOPMENT?**
M. Windisch, *Austria*
- 10:30 **THE NEED FOR NEW NEUROCOGNITIVE ENDPOINTS IN MCI AND MILD AD: POTENTIAL UTILITY OF THE RBANS**
C. Randolph, *USA*
- 10:50 **NEW METHODOLOGICAL STRATEGIES FOR CLINICAL TRIALS IN MILD COGNITIVE IMPAIRMENT (MCI) AND ALZHEIMER'S DISEASE (AD)**
R. Bullock, *UK*

SYMPOSIUM 19: NEUROINFLAMMATION IN NEURODEGENERATIVE DISEASES

Chairpersons: P. Eikelenboom, *The Netherlands*
TBA

09:10 **THE ROLE OF THE INNATE IMMUNITY IN THE PATHOGENESIS OF THE LATE-ONSET ALZHEIMER'S DISEASE**

P. Eikelenboom, E. Exel, J.J.M. Hoozemans, R. Veerhuis, A.J.M. Rozemuller, W.A. van Gool, *The Netherlands*

09:30 **COMMON MECHANISM IN ALZHEIMER'S DISEASE AND CEREBRAL PRION AMYLOIDOSIS WITH AMYLOID ASSOCIATED PROTEINS, NEUROINFLAMMATION AND NEUROFIBRILLARY DEGENERATION**

A. Rozemuller, C. Jansen, A. Carrano, E. van Haastert, D. Hondius, S. van der Vies, J. Hoozemans, *The Netherlands*

09:50 **IRAK4 SIGNALLING PATHWAY IS INCREASED IN ALZHEIMER'S DISEASE**

J.J.M. Hoozemans, R. Hilhorst, E.S. van Haastert, D. Hondius, H.M. Nielsen, R. Ruijtenbeek, J.M. Rozemuller, **S.M. van der Vies**, *The Netherlands, Sweden*

10:10 **MICROGLIOSIS IN THE ANTERIOR OLFACTORY NUCLEUS OF PARKINSON AND ALZHEIMER PATIENTS**

A.-M. Van Dam, A. Goudriaan, C. Blits-Huizinga, W. van de Berg, P. Hoogland, B. Drukarch, *The Netherlands*

10:30 **NATURAL-KILLER CELLS AS A CLUE TO A RIGIDITY-ASSOCIATED PATHOGENIC PATHWAY IN IDIOPATHIC PARKINSONISM**

R.J. Dobbs, A. Charlett, S.M. Dobbs, C. Weller, O. Iguodala, C. Smee, J. Bowthorpe, D. Taylor, I.T. Bjarnason, *UK*

10:50 **RUNNING EXERCISE PREVENTS INFLAMMATION-INDUCED DOPAMINERGIC NEURON LOSS IN THE SUBSTANTIA NIGRA VIA THE ACTIVATION OF BDNF SIGNALING PATHWAY**

Y.-M. Kuo, S.-Y. Wu, T.-F. Wang, L. Yu, C.J. Jen, J.-I. Chuang, F.-S. Wu, C.-W. Wu, *Taiwan R.O.C.*

Friday, March 11, 2011

09:10-11:10

Hall D

SYMPOSIUM 20: TAU, PARKIN & LRRK2

Chairpersons: **K. Iqbal, USA**
 E. Mandelkow, Germany

- 09:10 **REGULATION OF PHYSIOLOGICAL ACTIONS OF LRRK2**
 B. Wolozin, M. Guillily, A. Ferree, D. Chan, USA
- 09:30 **THE SYNERGISTIC INTERPLAY BETWEEN A-SYNUCLEIN AND LRRK2 IN**
 PARKINSON'S DISEASE
 H. Cai, USA
- 09:50 **A NOVEL UBIQUITIN-INDEPENDENT FUNCTION OF PARKIN AS A**
 TRANSCRIPTION FACTOR
 C. Alves da Costa, C. Sunyach, E. Giaime, A. West, O. Corti, A. Brice, S. Safe,
 P. Abou-Sleiman, N. Wood, H. Takahashi, M. Goldberg, J. Shen, F. Checler, France,
 USA, UK, Japan
- 10:10 **SET CLEAVAGE/PP2A-BASED NOVEL ETIOPATHOGENIC MECHANISM OF**
 ALZHEIMER DISEASE
 K. Iqbal, X. Wang, J. Blanchard, S. Bolognin, USA
- 10:30 **WHOLE GENOME TRANSCRIPT APPROACHES TO DISENTANGLING THE**
 AMYLOID CASCADE
 S. Lovestone, UK
- 10:50 **LENTIVIRAL DELIVERY OF HUMAN WILD-TYPE TAU PROTEIN MEDIATES**
 PROGRESSIVE SPATIO-TEMPORAL AND CORTICO-CORTICAL PROPAGATED
 TAU PATHOLOGY IN RAT BRAIN
 M. Colin, K. Lécolle, R. Caillierez, S. Bégard, N. Zommer, D. Blum, P. Hantraye,
 N. Déglon, L. Buée, France

11:40-13:20

Hall A

MANAGEMENT OF NEUROGENIC ORTHOSTATIC HYPOTENSION IN PD: SCIENTIFIC
INSIGHTS AND THERAPEUTIC OPPORTUNITIES
CHELSEA THERAPEUTICS SPONSORED SYMPOSIUM

Chairperson: **TBA**

- 11:40 **NOREPINEPHRINE DEPLETION IN THE PATHOPHYSIOLOGY OF MOTOR AND**
 NONMOTOR DYSFUNCTION IN PD
 P. Le Witt, USA
- NORTHERA™ (DROXIDOPA): AN ORALLY AVAILABLE NOREPINEPHRINE**
 REPLACEMENT THERAPY FOR THE TREATMENT OF SYMPTOMATIC
 NEUROGENIC ORTHOSTATIC HYPOTENSION
 P. Low, USA

Friday, March 11, 2011

13:20-14:40

EXHIBITION, POSTERS, LUNCH AND INFORMAL NETWORKING WITH THE PROFESSOR

14:40-16:40

Hall A

SYMPOSIUM 21: IMAGING 1: MRI

Chairpersons: R. Frackowiak, *Switzerland*
R. Schmidt, *Austria*

- 14:40 **NEW PERSPECTIVES ON DIAGNOSING ALZHEIMER'S DISEASE IN LIFE**
R. Frackowiak, *Switzerland*
- 15:00 **BIOMARKERS FOR PRESYMPTOMATIC DIAGNOSIS AND MECHANISM DISCOVERY IN AD**
M. de Leon, L. Mosconi, L. Glodzik, Y. Li, W. Tsui, E. Pirraglia, D. Pratico, S. Vallabhajosula, R. Zinkowski, P. Mehta, H. Zetterberg, K. Blennow, H. Rusinek, *USA, Sweden*
- 15:20 **STRUCTURAL MRI IN NORMAL AGING AND ALZHEIMER'S DISEASE: WHITE AND BLACK SPOTS**
R. Schmidt, *Austria*
- 15:40 **FAST AND ROBUST SEGMENTATION OF HIPPOCAMPUS FROM MAGNETIC RESONANCE IMAGES**
J. Lötjönen, J. Koikkalainen, R. Wolz, L. Thurfjell, V. Julkunen, R. Lundqvist, D. Rueckert, G. Waldemar, H. Soininen, The Alzheimers Disease Neuroimaging Initiative, *Finland, UK, Sweden, Denmark*
- 16:00 **CEREBRAL BLOOD FLOW DYNAMICS IN ALZHEIMER'S DISEASE AND MILD COGNITIVE IMPAIRMENT USING ARTERIAL SPIN LABELING MRI**
Y. Liu, X. Zhu, D. Feinberg, M. Guenther, H. Rosen, M.W. Weiner, N. Schuff, *USA, Germany*
- 16:20 **MULTIVARIATE ANALYSIS AND MACHINE LEARNING TECHNIQUES FOR THE EARLY DETECTION OF ALZHEIMER'S DISEASE USING MRI AND MRS**
C. Aguilar, E. Westman, L.-O. Wahlund, M. Poppe, A. Cooper, D. Murphy, S. Lovestone, A. Simmons, *Sweden, UK*

**DRUG DISCOVERY FOR ALZHEIMER'S DISEASE
ALZHEIMER'S DRUG DISCOVERY FOUNDATION SPONSORED SYMPOSIUM**

Chairperson: H. Fillit, *USA*

- 14:40 **BEST PRACTICE RECOMMENDATIONS FOR PRECLINICAL ANIMAL TRIALS OF NEW DRUGS FOR ALZHEIMER'S DISEASE**
H. Fillit, D. Shineman, G. Basi, J.L. Bizon, C.A. Colton, B. Greenberg, B.A. Hollister, J. Lincecum, G.G. Leblanc, L. Lee, F. Luo, D. Morgan, I. Morse, L. Refolo, D. Ridsell, K. Scearce-Levie, P. Sweeney, J. Yrjänheikki, *USA*
- 15:00 **MICRORNA IN ALZHEIMER AND PARKINSON DISEASE**
B. De Strooper, S.S. Hébert, *Belgium, Canada*
- 15:20 **MULTIMODAL ANTI ALZHEIMER DRUGS WITH THE ABILITY TO PROCESS APP, TAU PHOSPHORYLATION, ACTIVATE HIF AND INDUCE CELL CYCLE ARREST**
M.B.H. Youdim, *Israel, Republic of Korea*
- 15:40 **KLOTHO ENHANCERS AS NOVEL NEUROPROTECTIVE THERAPEUTICS FOR ALZHEIMER'S DISEASE AND WHITE MATTER DEGENERATION**
C.R. Abraham, G. King, M. Glicksman, J.A. Sloane, M. Kuro-o, C.-D. Chen, *USA*
- 16:00 **A POTENTIAL THERAPY IN AMNESTIC MILD COGNITIVE IMPAIRMENT: NORMALIZING HIPPOCAMPAL ACTIVITY WITH GABA A 5 AGONISTS**
M. Gallagher, *USA*
- 16:20 **NOVEL CNS DRUGLIKE SMALL MOLECULES SPECIFICALLY BLOCK SOLUBLE ABETA OLIGOMER-INDUCED MEMORY DEFICITS**
S. Catalano, *USA*

SYMPOSIUM 23: FUNCTIONS OF PRESENILINS GAMMA-SECRETASE AND OF PROGRANULIN

Chairpersons: **S. Sisodia, USA**
 F. Checler, France

- 14:40 **PRESENILIN FUNCTION IN ADULT NEUROGENESIS**
 S. Sisodia, K. Veeraghavalu, USA
- 15:00 **P53-CONTROLLED PHYSIOPATHOLOGICAL PROCESSING OF BETA-APP**
 F. Checler, C. Alves da Costa, J. Dunys, R. Pardossi-Piquard, J. Sevalle, A. Thévenet,
 France
- 15:20 **PRESENILIN AND PROGRANULIN SIGNALING IN CELL SURVIVAL AND**
 NEURODEGENERATION
 N.K. Robakis, USA
- 15:40 **ALZHEIMER'S DISEASE: FROM MOLECULAR PATHOLOGY TO DISEASE**
 MODIFICATION
 T. Iwatsubo, Japan
- 16:00 **GPR3 MODULATION THE GAMMA-SECRETASE COMPLEX AND A-BETA**
 GENERATION IN ALZHEIMER'S DISEASE
 A. Thathiah, K. Horre, A. Skwarek-Maruszewska, B. De Strooper, Belgium
- 16:20 **PRESENILINS IN ALZHEIMER'S DISEASE AND FRONTOTEMPORAL DEMENTIA**
 J. Shen, USA

Friday, March 11, 2011

14:40-16:40

Hall D

SYMPOSIUM 24: ALPHA-SYNUCLEIN BIOLOGY

Chairpersons: H. Soreq, *Israel*
Z. Wszolek, *USA*

- 14:40 **MODIFIED ALPHA-SYNUCLEIN IN DEMENTIA WITH LEWY BODIES AND PARKINSON'S DISEASE DEMENTIA**
E. Jones, N. Bajic, C. Ballard, *UK*
- 15:00 **GLUCOCEREBROSIDASE MUTANTS LINKED TO GAUCHER DISEASE, PARKINSON'S AND LEWY BODY DEMENTIA ALTER ALPHA-SYNUCLEIN PROCESSING**
V. Cullen, S.P. Sardi, J. Ng, X.Y. Hui, P. Kolodziej, J.J. Tomlinson, J. Woulfe, J.C. Rochet, M. Glicksman, S.H. Cheng, G.L. Grabowski, L. Shihabuddin, M.G. Schlossmacher, *USA, Canada*
- 15:20 **BASIS FOR THE RELATIONSHIP BETWEEN GAUCHER DISEASE AND SYNUCLEINOPATHIES**
P. Sardi, J. Clarke, K. Kinnecom, S.H. Cheng, L. Shihabuddin, *USA*
- 15:40 ***IN VIVO* ASSESSMENT OF A-SYNUCLEIN SECRETION**
E. Emmanouilidou, T. Pappasilekas, D. Elenis, G. Strantzalis, P. Ioannou, K. Gerozissis, K. Vekrellis, *Greece, France*
- 16:00 **A-SYNUCLEIN EXISTS NORMALLY IN CELLS AND BRAIN AS A NATIVELY FOLDED TETRAMER THAT RESISTS AGGREGATION COMPARED TO UNFOLDED MONOMERS**
T. Bartels, J.G. Choi, D.J. Selkoe, *USA*
- 16:20 **NEURON-DERIVED A-SYNUCLEIN IS AN ENDOGENOUS TLR2 LIGAND FOR MICROGLIA ACTIVATION**
C. Kim, H.-J. Lee, S. You, E.-D. Cho, J.-H. Cho, J. Kang, S.-J. Lee, J.-H. Chung, D. Hwang, S.-J. Lee, *Republic of Korea*

16:40-17:10

EXHIBITION, POSTERS AND COFFEE BREAK

Friday, March 11, 2011

17:10-19:10

Hall A

SYMPOSIUM 25: COGNITIVE DEFICITS IN PD

Chairpersons: **Y. Mizuno, Japan**
 I. Rektorova, Czech Republic

- 17:10 **NATURE AND SPREAD OF PARKINSON'S DISEASE**
 Y. Mizuno, Japan
- 17:30 **WHAT ARE WE TALKING ABOUT WHEN WE TALK ABOUT MILD COGNITIVE IMPAIRMENT (MCI) IN PARKINSON'S DISEASE**
 J. Kulisevsky, Spain
- 17:50 **COGNITIVE IMPAIRMENT IN THE PARKINSON ASSOCIATED RISK SYNDROME (PARS) STUDY**
 K. Marek, K. Hawkins, A. Siderowf, M. Stern, D. Jennings, USA
- 18:10 **MILD COGNITIVE IMPAIRMENT IN PARKINSON'S DISEASE: IS IT A USEFUL CONCEPT OR NOT?**
 I. Rektorova, Czech Republic
- 18:30 **PREVALENCE AND PROFILE OF MILD COGNITIVE IMPAIRMENT IN PARKINSON'S DISEASE**
 R. Monastero, C. Camarda, P. Di Fiore, G. Ventimiglia, A. Falsone, I. Battaglini, R. Camarda, Italy
- 18:50 **ATTENTION DEFICITS PLAY A MAJOR ROLE IN THE PROFILE OF COGNITIVE DYSFUNCTION IN PARKINSON'S DISEASE**
 K. Wesnes, D. Miller, L. Allcock, A. Stutt, M. Eccles, L. Robinson, D. Burn, UK, USA

17:10-18:10

Hall B

INNOVATIVE APPROACHES AND BIOMARKERS IN PARKINSON DISEASE ORYZON GENOMICS, S.A. SPONSORED SESSION

Chairperson: **I. Ferrer, Spain**

- 17:10 **THE ROLE OF BETA-SYNUCLEIN IN LEWY BODY DISEASES**
 K. Beyer, Spain
- 17:30 **PARKINSON'S DISEASE: CHALLENGES FOR THE NEXT DECADE**
 G. Linazasoro, Spain
- 17:50 **LSD1, A NOVEL TARGET IN NEURODEGENERATIVE DISEASE**
 T. Maes, Spain

SYMPOSIUM 27: TAU BIOLOGY

Chairpersons: E.-M. Mandelkow, *Germany*
D. Holtzman, *USA*

- 17:10 **MODES OF TAU TOXICITY IN CELL AND MOUSE MODELS**
E.-M. Mandelkow, A. Sydow, K. Hochgräfe, J. Decker, E. Mandelkow, *Germany*
- 17:30 **INSIGHTS INTO TAU DYNAMICS FROM BRAIN MICRODIALYSIS STUDIES**
K. Yamada, J. Cirrito, L.I. Binder, V.M. Lee, D.M. Holtzman, *USA*
- 17:50 **MODULATION OF TAU PATHOLOGY IN THY-TAU22 TRANSGENIC MICE: FROM PHYSICAL EXERCISE TO IMMUNOTHERAPY**
L. Troquier, S. Burnouf, K. Belarbi, R. Caillierez, D. Blum, L. Buee, *France*
- 18:10 **TAU MISLOCALIZATION TO DENDRITIC SPINES MEDIATES SYNAPTIC DYSFUNCTION INDEPENDENTLY OF NEURODEGENERATION**
K.H. Ashe¹, B.R. Hoover, M.N. Reed, J. Su, R.D. Penrod, L.A. Kotilinek, M.K. Grant, R. Pitsstick, G.A. Carlson, L.M. Lanier, L.-L. Yuan, D. Liao, *USA*
- 18:30 **A MECHANISM FOR THE SPREADING OF TAU PATHOLOGY IN TAUOPATHIES LIKE ALZHEIMER DISEASE**
J. Avila, A. Rubio, A. Gomez-Ramos, M.T. Miras-Portugal, F. Hernandez, M. Diaz-Hernandez, *Spain*
- 18:50 **NUCLEAR TAU: A ROLE IN DNA PROTECTION**
M.-C. Galas, A. Sultan, F. Nessler, M. Violet, S. Bégard, A. Loyens, S. Talahari, Z. Mansuroglu, D. Marzin, N. Sergeant, S. Humez, M. Colin, E. Bonnefoy, L. Buée, *France*

Friday, March 11, 2011

17:10-19:10

Hall D

SYMPOSIUM 28: FUNCTION OF APP AND OF A-BETA

Chairpersons: **K. Beyreuther, *Germany***
 D. H. Small, *Australia*

- 17:10 **APP TRANSPORT AND FUNCTION - IMPLICATION FOR PREVENTION AND THERAPY**
 K. Beyreuther, *Germany*
- 17:30 **ROLE OF APP INTRACELLULAR DOMAIN IN ALZHEIMER'S DISEASE PATHOGENESIS**
 Q. Fan, K. Ghosal, S.W. Pimplikar, *USA*
- 17:50 **THE ROLE OF AB IN SYNAPTIC ACTIVITY-RELATED DEGENERATION OF SYNAPSES**
 G.K. Gouras, *USA*
- 18:10 **BIOCHEMICAL AND CELLULAR MECHANISMS UNDERLYING SYNAPTIC DYSFUNCTION IN ALZHEIMER'S DISEASE**
 S. Liu, R. Gasperini, L. Foa, D.H. Small, *Australia*
- 18:30 **CREB REGULATED TRANSCRIPTIONAL COACTIVATOR-1 (CRT1)-DEPENDENT TRANSCRIPTION AND MEMORY IN ALZHEIMER'S DISEASE MICE**
 J. Valero, J. España, A. Miñano-Molina, L. Giménez-Llort, J. Rodríguez-Alvarez, C.A. Saura, *Spain*
- 18:50 **GLUCOSE UTILISATION IN THE BRAIN OF YOUNG PDAPP MICE DURING MEMORY ENCODING, CONSOLIDATION AND RETRIEVAL**
 V. Beglopoulos, L. Ferrington, S. Daumas, J. Tulloch, I. Veinbergs, P.A. Kelly, R.G.M. Morris, *UK, USA*

18:10-19:10

Hall B

**PROGRESSIVE SUPRANUCLEAR PALSY AS A TAUOPATHY MODEL
NOSCIRA SPONSORED SYMPOSIUM**

Chairperson: **T. del Ser, *Spain***

- 18:10 **A PHYSIOPATHOLOGICAL AND CINICAL UPDATE OF PROGRESSIVE SUPRANUCLEAR PALSY**
 G. Höglinger, *Germany*
- 18:30 **VISUALIZING TAU PATHOLOGY IN THE LIVING BRAIN OF PROGRESSIVE SUPRANUCLEAR PALSY PATIENTS**
 J. Barrio, *USA*
- 18:50 **CHALLENGES IN CINICAL TRIALS IN PROGRESSIVE SUPRANUCLEAR PALSY**
 E. Tolosa, *Spain*

Saturday, March 12, 2011

07:30-08:30

Hall B

MEET THE EXPERT SESSION

07:30 **MEET THE EXPERT SESSION**
TBA

07:30-08:30

Hall C

MEET THE EXPERT SESSION

07:30 **MEET THE EXPERT SESSION**
TBA

07:30-08:30

Hall D

MEET THE EXPERT SESSION

07:30 **MEET THE EXPERT SESSION**
TBA

08:30-09:00

Hall A

PLENARY LECTURE 6

Chairperson: J. Kulisevsky, *Spain*

08:30 **THE ROLES OF EPIGENETIC MECHANISMS IN NEURODEGENERATION AND REPAIR**
L.-H. Tsai, *USA*

SYMPOSIUM 29: IMAGING 2: PET

Chairpersons: **A. Nordberg**, *Sweden*
 J. Growdon, *USA*

09:10 **BIOMARKERS FOR FOLLOWING ALZHEIMER PROGRESSION - AMYLOID IMAGING - PRESENT EXPERIENCE AND FUTURE CLINICAL IMPLICATION**
 A. Nordberg, *Sweden*

09:30 **IMAGING MECHANISMS OF NON-MOTOR PROBLEMS IN PD**
 D. Brooks, *UK*

09:50 **BRAIN AMYLOID AND COGNITION IN PD**
 J. Growdon, S. Gomperts, J. Locascio, D. Rentz, M. Marquie Sayagues,
 A. Santarlasci, K. Johnson, *USA*

10:10 **BIOMARKERS FOR PREDICTING AND MONITORING PROGRESSION OF ALZHEIMER'S DISEASE: THE ALZHEIMER'S DISEASE NEUROIMAGING INITIATIVE**
 M.W. Weiner, P. Aisen, R. Petersen, C. Jack, W. Jagust, J. Trojanowski, L. Shaw,
 A. Saykin, A. Toga, L. Beckett, A. Gamst, *USA*

10:30 **THE SCOPE AND IMPACT OF PRECLINICAL ALZHEIMER'S DISEASE**
 J.C. Morris, T. Benzinger, A. Fagan, A. Goate, E. Grant, D. Holtzman, M. Mintun,
 C. Roe, M. Storandt, C. Xiong, *USA*

10:50 **AB PEPTIDE DEPOSITION IN THE STRIATUM DIFFERENTIATES PDD AND DLB FROM OTHER PARKINSONIAN CONDITIONS**
 M.E. Kalaitzakis, A.J. Walls, R.K. Pearce, **S.M. Gentleman**, *UK*

**AFFITOPE VACCINES AS THERAPEUTIC STRATEGY FOR NEURODEGENERATIVE DISEASES
AFFIRIS SPONSORED SYMPOSIUM**

Chairpersons: **B. Dubois, *France***
 F. Mattner, *Austria*

- 09:10 **DEVELOPMENT OF AFFITOPE VACCINES FOR ALZHEIMER'S DISEASE - RESULTS OF PHASE I STUDIES WITH AD01 AND AD02**
 A. Schneeberger, *Austria*

- 09:30 **PYROGLUTAMATE-TARGETING AB AFFITOPE® VACCINES REACHED CLINICAL TESTING - RATIONALE AND STATE-OF-THE-ART**
 F. Mattner, M. Mandler, *Austria*

- 09:50 **GENETIC AND NEUROPATHOLOGICAL ROLE OF ALPHA-SYNUCLEIN IN PD AND RELATED DISORDERS, AN UPDATE**
 G.K. Wenning, *Austria*

- 10:10 **AFFITOPE BASED IMMUNOTHERAPEUTIC STRATEGIES FOR PARKINSON'S DISEASE**
 M. Mandler, *Austria*

- 10:30 **MOVING THE NEW DIAGNOSTIC CRITERIA TOWARDS USE IN CLINICAL TRIALS**
 B. Dubois, *France*

Saturday, March 12, 2011

09:10-11:10

Hall C

SYMPOSIUM 31: CLINICAL ASSESSMENT METHODOLOGIES 2

Chairpersons: **H. Soininen**, *Finland*
 J. Hort, *Czech Republic*

- 09:10 **THE POSTERIOR VARIANT OF ALZHEIMER'S DISEASE**
 M. Rossor, *UK*
- 09:30 **SOFTWARE TOOL FOR PREDICTING ALZHEIMER'S DISEASE - PREDICTAD PROJECT**
 H. Soininen, J. Mattila, J. Koikkalainen, M. van Gils, G. Waldemar, A. Hviid Simonsen, D. Rueckert, L. Thurfjell, J. Lötjönen, *Finland, Denmark, UK, Sweden*
- 09:50 **FROM MORRIS WATER MAZE TO COMPUTER TESTS IN PREDICTION OF ALZHEIMER DISEASE**
 J. Hort, M. Vyhnaek, K. Vlcek, Z. Nedělská, H. Magerova, A. Varjassyová, I. Gažová, D. Hořínek, M. Tolar, R. Andel, J. Laczó, *Czech Republic, USA*
- 10:10 **EARLY ALZHEIMER'S DISEASE DIAGNOSIS: A NOSOLOGICAL EVOLUTION**
 J.L. Molinuevo, *Spain*
- 10:30 **PAIN IN PARKINSON'S DISEASE**
 O. Rascol, *France*
- 10:50 **ESTROGEN AND COGNITIVE AGING: CINICAL EVIDENCE FOR THE TIMING HYPOTHESIS**
 W.A. Rocca, *USA*

SYMPOSIUM 32: DRUG DISCOVERY & DEVELOPMENT: MOVEMENT DISORDERS

Chairpersons: T. Nagatsu, *Japan*
TBA

- 09:10 **AAV2-GDNF FOR PARKINSON'S DISEASE**
J. Forsayeth, A.P. Kells, J. Eberling, X. Su, P. Pivrotto, J. Bringas, P. Hadaczek, W.C. Narrow, W.J. Bowers, H.J. Federoff, K.S. Bankiewicz, *USA*
- 09:30 **SYNUCLERE™: A NOVEL SMALL MOLECULE THAT EFFECTIVELY REDUCES ALPHA-SYNUCLEIN AGGREGATION AND IMPROVES MOTOR DYSFUNCTION AS A POTENTIAL PARKINSON'S DISEASE-MODIFYING THERAPEUTIC**
L. Esposito, J. Cummings, M.-C. Yadon, F.M. Hudson, T. Lake, Q. Hu, J. Cam, E. Rockenstein, E. Masliah, A.D. Snow, *USA*
- 09:50 **REGULATION OF TYROSINE HYDROXYLASE AND ALPHA-SYNUCLEIN LEVELS BY LIVER X RECEPTORS AND ESTROGEN RECEPTORS-RELEVANCE TO PARKINSON'S DISEASE**
O. Ghribi, *USA*
- 10:10 **PBT434: A NOVEL 8-HYDROXYQUINAZOLIN-4 (3H)-ONE PROVIDES ROBUST NEUROPROTECTION IN TRANSGENIC AND TOXIN ANIMAL MODELS OF PD ASSOCIATED WITH REDUCED NIGRAL ALPHA-SYNUCLEIN AND ELEVATED PARK7 (DJ-1)**
R. Cherny, J. George, N. Critch, M. Cortes, X. Liu, M. Nurjono, K. Laughton, I. Volitakis, C. Masters, J. Parsons, E. Gautier, K. Barnham, A. Bush, D. Finkelstein, *Australia*
- 10:30 **CAUSAL THERAPY OF PRION AND PARKINSON'S DISEASE WITH ANLE138B, A NOVEL PROTEIN AGGREGATION INHIBITOR**
A. Giese, J. Wagner, S. Ryazanov, A. Leonov, J. Levin, S. Shi, F. Schmidt, C. Prix, U. Bertsch, G. Mlteregger-Kretschmar, M. Geissen, T. Hirschberger, P. Tavan, J. Kurz, M. Zweckstetter, T. Frank, M. Bähr, J. Weishaupt, M. Uhr, H. Urlaub, U. Teichmann, K. Bötzel, M. Groschup, H. Kretschmar, C. Griesinger, *Germany*
- 10:50 **NEUROPROTECTIVE CHALLENGES ASSOCIATED WITH THE NOVEL PLURIPOTENTIAL IRON CHELATING DRUG, M30 IN MOTOR NEURON-LIKE CELLS AND G93A-SOD1 TRANSGENIC MOUSE MODEL OF AMYOTROPHIC LATERAL SCLEROSIS**
O. Weinreb, L. Kupersmidt, T. Amit, S. Mandl, Q. Wang, W. Le, M.B. Youdim, *Israel, China*

EXHIBITION, POSTERS AND COFFEE BREAK

Saturday, March 12, 2011

11:40-13:20

Hall A

**AB PROTOFIBRILS AND THE SEARCH FOR A DISEASE MODIFYING THERAPY IN AD
EISA/BIOARCTIC SPONSORED SYMPOSIUM**

- 11:40 **AB PROTOFIBRILS AND THE SEARCH FOR A DISEASE MODIFYING THERAPY IN AD**
H. Basun, A. Satlin, *Sweden, USA*
- 11:55 **OLIGOMERS IN THE PATHOGENESIS OF AD**
D. Walsh, *Ireland*
- 12:10 **IMMUNOTHERAPY IN AD**
N. Relkin, *USA*
- 12:25 **A β POTOFIBRILS AS A TARGET FOR IMMUNOTHERAPY IN AD**
L. Lannfelt, *Sweden*
- 12:40 **BIOMARKERS FOR DIAGNOSIS AND ASSESSMENT OF CINICAL EFFICACY IN EARLY AD**
K. Blennow, *Sweden*
- 12:55 **CLINICAL STUDIES WITH BAN2401, AN A β PROTOFIBRIL SPECIFIC HUMANIZED ANTIBODY**
A. Satlin, *USA*
- 13:10 **PANEL DISCUSSION**

13:20-14:40

EXHIBITION, POSTERS, LUNCH AND INFORMAL NETWORKING WITH THE PROFESSOR

SYMPOSIUM 33: BETA- AND ALPHA-SECRETASES

Chairpersons: T. Iwatsubo, *Japan*
TBA

- 14:40 **THE ALPHA-SECRETASE ADAM10 AND RETINOID SIGNALLING: ITS POTENTIAL FOR TREATING ALZHEIMER'S DISEASE**
F. Fahrenholz, *Germany*
- 15:00 **ADAM10 IS THE PHYSIOLOGICALLY RELEVANT ALPHA-SECRETASE OF THE AMYLOID PRECURSOR PROTEIN GENE FAMILY IN PRIMARY NEURONS**
S.F. Lichtenthaler, P.-H. Kuhn, H. Wang, S. Hogg, B. Dislich, A. Colombo, S. Rossner, *Germany*
- 15:20 **THE ALPHA-SECRETASE-DERIVED N-TERMINAL PRODUCT OF CELLULAR PRION PROTEIN N1, PROTECTS CELLS AGAINST B-AMYLOID INDUCED TOXICITY**
M.-V. Guillot-Sestier, C. Sunyach, C. Druon, F. Checler, *France*
- 15:40 **CENTRAL INHIBITION OF ALZHEIMER'S BETA-SECRETASE IN HUMANS: PROOF OF CONCEPT WITH LY2811376**
M. Citron, P. May, R. Dean, S. Lowe, F. Martenyi, S. Sheehan, L. Boggs, S. Monk, B. Mathes, D. Mergott, B. Watson, S. Stout, D. Timm, E. Labell, C. Gonzales, M. Nakano, S. Jhee, M. Yen, L. Ereshefsky, T. Lindstrom, D. Calligaro, P. Cocke, G. Hall, S. Friedrich, J. Audia, *USA, Singapore, Japan*
- 16:00 **THE TRANSLATIONAL REGULATION OF THE BETA-SECRETASE ENZYME BACE1 IN ALZHEIMER'S DISEASE**
R. Vassar, *USA*
- 16:20 **BIOLOGICAL CONSEQUENCES OF BACE1 DEPENDENT PROCESSING OF NEUREGULIN**
M. Willem, D. Fleck, B. Bettgazzi, C. Volbracht, H. Jacobsen, C. Haass, *Germany, Italy, Denmark, Switzerland*

SYMPOSIUM 34: APOE, TREATMENTS AND LIPID METABOLISM

Chairpersons: D.M. Michaelson, *Israel*
D. Kovacs, *USA*

- 14:40 **APOE4 POTENTIATES THE PATHOLOGICAL EFFECTS OF THE AMYLOID CASCADE AND IMPAIRS ANTI AB DEFENSE MECHANISMS**
D.M. Michaelson, M. Frenkel, I. Luz, R. Kayed, *Israel, USA*
- 15:00 **ACAT INHIBITORS IN ANTI-AMYLOID THERAPY**
D.M. Kovacs, *USA*
- 15:20 **CHOLESTEROL AND SPHINGOLIPID METABOLISM AND DHA IN ALZHEIMER'S DISEASE - VICIOUS CYCLE OF PHYSIOLOGICAL AND PATHOPHYSIOLOGICAL FUNCTION OF THE AMYLOID PRECURSOR PROTEIN**
T. Hartmann, M.O. Grimm, *Germany*
- 15:40 **APOE-MIMETIC PEPTIDES REDUCE BEHAVIORAL DEFICITS, NEURONAL LOSS, AMYLOID PLAQUES AND NEUROFIBRILLARY TANGLES IN CVN-AD AND OTHER ALZHEIMER'S TRANSGENICS**
M.P. Vitek, D.J. Christensen, D. Wilcock, W.E. Van Nostrand, F. Li, C.A. Colton, *USA*
- 16:00 **EFFECTS OF SPECIFIC LIPID-BASED DIETS ON BEHAVIOUR, COGNITION, CEREBRAL METABOLISM AND HEMODYNAMICS, AND INFLAMMATORY MARKERS IN APP/PS1, APOE4 AND APOE KNOCKOUT MICE**
D. Jansen, V. Zerbi, C.I.F. Janssen, B. Zinnhardt, D. van Rooij, L.M. Broersen, Y. Liu, A. Heerschap, A.J. Kiliaan, *The Netherlands, Germany*
- 16:20 **SPECIAL LIPID-BASED DIETS ALLEVIATE COGNITIVE DEFICITS IN THE APPSWE/PS1DE9 TRANSGENIC MOUSE MODEL OF ALZHEIMER'S DISEASE INDEPENDENT OF BRAIN AMYLOID DEPOSITION**
H. Koivisto, M. Takalo, P. Miettinen, L. Broersen, H. Tanila, *Finland, The Netherlands*

SYMPOSIUM 35: DZNE SYMPOSIUM

Chairperson: P. Nicottera, *Germany*

14:40 **NEW NEURONS FOR DEGENERATING BRAINS? WHY ADULT HIPPOCAMPAL NEUROGENESIS IS RELEVANT IN NEURODEGENERATIVE DISEASES**
G. Kempermann, *Germany*

15:00 **EPIGENETIC MECHANISMS IN NEURODEGENERATIVE DISEASES**
A. Fischer, *Germany*

15:20 **LEARNING IN THE FACE OF NEURODEGENERATION: PLASTICITY, PHENOTYPING AND EARLY INTERVENTION**
H.J. Heinze, *Germany*

15:40 **GENETIC RISK FACTORS FOR SPORADIC PARKINSON'S DISEASE**
T. Gasser, *Germany*

16:00 **STRUCTURAL PRINCIPLES OF PATHOLOGICAL TAU FOLDING, AGGREGATION, AND REVERSIBILITY**
E. Mandelkow, S. Chinnathambi, M. Pickhardt, J. Biernat, E.M. Mandelkow, *Germany*

16:20 **MODULATION OF GAMMA-SECRETASE ACTIVITY**
C. Haass, B. Kretner, A. Fukumori, A. Gutsmedl, R.M. Page, T. Luebbbers, G. Galley, K. Baumann, H. Steiner, *Germany, Switzerland*

Saturday, March 12, 2011

14:40-16:40

Hall D

SYMPOSIUM 36: ALPHA-SYNUCLEIN AGGREGATION

Chairpersons: E. Masliah, *USA*
M. Youdim, *Israel*

- 14:40 **IS LEWY BODY FORMATION RESPONSIBLE FOR THE NIGRAL NEURONAL LOSS IN PARKINSON'S DISEASE?**
L. Parkkinen, S.S. O'Sullivan, C. Collins, A. Petrie, J.L. Holton, T. Revesz, A.J. Lees, *UK*
- 15:00 **ALPHA-SYNUCLEIN MUTANTS THAT FAVOR OLIGOMERIZATION ARE MORE TOXIC**
B. Winner, R. Jappelli, S. Maji, L. Boyer, P. Desplats, E. Masliah, F.H. Gage, R. Riek, *Germany, USA, Switzerland*
- 15:20 **THE ROLE OF PHOSPHORYLATION IN REGULATING A-SYN PHOSPHORYLATION AND TOXICITY IN VIVO**
A. Oueslati, K.E. Paleologou, B.L. Schneider, P. Aebischer, H.A. Lashuel, *Switzerland*
- 15:40 **CHARACTERIZATION OF ION-PERMEABLE ALPHA-SYNUCLEIN PORES IN LIPID MEMBRANES - A POSSIBLE TOXIC OLIGOMER SPECIES IN THE PATHOGENESIS OF SYNUCLEINOPATHIES?**
F. Schmidt, J. Levin, T. Högen, F. Kamp, H. Kretschmar, K. Bötzel, A. Giese, *Germany*
- 16:00 **MODIFICATION OF ALPHA-SYNUCLEIN OLIGOMERIZATION IN LIVING CELLS**
T.F. Outeiro, *Portugal*
- 16:20 **NEDD4 UBIQUITINATES A-SYNUCLEIN AND PROMOTES ITS DEGRADATION BY THE ENDOSOMAL-LYSOSOMAL PATHWAY**
G.K. Tofaris, R. Hourez, H.T. Kim, A.L. Goldberg, *UK, USA*

16:40-17:10

EXHIBITION, POSTERS AND COFFEE BREAK

SYMPOSIUM 37: A-BETA AGGREGATION

Chairpersons: N. Robakis, *USA*
R.C.-C. Chang, *Hong Kong*

- 17:10 **STRUCTURAL DIVERSITY OF AMYLOID OLIGOMERS**
C. Glabe, *USA*
- 17:30 **AB42 OLIGOMERS ARE HIGHLY TOXIC TO THE SMI32 IMMUNO-POSITIVE NEURONS THAT EXHIBIT NEGATIVE OLIGOMER BINDING**
W.-Q. Zhao, R. Breese, C.A. Gretzula, P.J. Shughrue, J.R. Renger, W.J. Ray, *USA*
- 17:50 **AMYLOID B PEPTIDE AGGREGATION AND MEMBRANE INTERACTIONS: STRUCTURAL ANALYSIS BY DUAL POLARISATION INTERFEROMETRY**
J.L. Zhai, T.-H. Lee, D.H. Small, M. Aguilar, *Australia*
- 18:10 **STRUCTURE AND ANTIGENICITY OF AB AMYLOID FIBRILS AND OLIGOMERS**
M. Fändrich, *Germany*
- 18:30 **EVALUATION OF THE PERFORMANCE OF NOVEL AB ISOFORMS AS THERAGNOSTIC MARKERS IN AD - FROM THE CELL TO THE PATIENT**
E. Portelius, M.K. Gustavsson, H. Zetterberg, U. Andreasson, K. Blennow, *Sweden*
- 18:50 **ANSWERING THE QUESTION, "WHY IS AB42 MORE TOXIC THAN AB40?"— A COMPUTATIONAL AND EXPERIMENTAL STUDY**
M. Yang, R. Roychaudhuri, A. Deshpande, A. Lomakin, G.B. Benedek, G. Cole, S. Frautschy, D. Teplow, *USA*

**PROPAGATION OF MISFOLDED PROTEINS IN NEURODEGENERATIVE DISEASES AND OPPORTUNITIES FOR TREATMENT
ELAN / NEOTOPE SPONSORED SYMPOSIUM**

Chairpersons: D. Schenk, *USA*
TBA

- 17:10 **THERAPEUTIC AGENTS PROMOTE MONOCYTIC GENE EXPRESSION RELATED TO BETA-AMYLOID CLEARANCE**
J.R. Cashman, S. Gagliardi, M. Lanier-Gross, S. Ghirmai, K.J. Abel, *USA, Italy*
- 17:30 **DISSECTING PRION TOXICITY IN ORGANOTYPIC CEREBELLAR SLICE CULTURES**
A. Aguzzi, *Switzerland*
- 17:50 **LEWY BODIES IN LONG-TERM FETAL GRAFTS IN PARKINSON'S DISEASE PATIENTS: RELEVANCE TO DISEASE PATHOGENESIS AND CELL REPLACEMENT THERAPY**
J. Kordower, *USA*
- 18:10 **IMMUNOTHERAPEUTIC APPROACHES TO BLOCK THE PROPAGATION OF ALPHA-SYNUCLEIN NEUROPATHOLOGIES**
E. Masliah, D. Games, E. Rockenstein, C. Patrick, R. Barbour, P. Seubert, D. Schenk, *USA*
- 18:30 **TAU IMMUNOTHERAPY**
E. Sigurdsson, *USA*

SYMPOSIUM 39: DRUG DISCOVERY AND DEVELOPMENT 2; UNRESTRICTED EDUCATIONAL GRANT, PARTIALLY SPONSORED BY ENVIVO PHARMACEUTICALS

Chairpersons: T. Hartmann, *Germany*
TBA

- 17:10 **EVP-6124, AN ALPHA7 AGONIST FOR THE TREATMENT OF COGNITIVE DEFICITS IN ALZHEIMER'S -SYNERGIES WITH EXISTING THERAPIES**
G. König, J. Prickaerts, S. Bertrand, D. Bertrand, N. van Goethem, G. Shapiro, M. Gawryl, D. Hilt, *USA, The Netherlands, Switzerland*
- 17:30 **A NOVEL FAMILY OF HUPRINE DERIVATIVES WITH ANTI-AMYLOIDOGENIC PROPERTIES**
D. Muñoz-Torrero, C. Galdeano, E. Viayna, I. Sola, X. Formosa, P. Camps, A. Badia, M.V. Clos, M. Pera, M. Ratia, M. Bartolini, F. Mancini, V. Andrisano, G.C. González-Muñoz, M.I. Rodríguez-Franco, L. Rivail, F.J. Luque, *Spain, Italy*
- 17:50 **FULLY SYNTHETIC HEPARINOID B-SECRETASE INHIBITORS: POTENTIAL ALZHEIMERS DISEASE THERAPEUTICS**
J.E. Turnbull, E. Edwards, E.A. Yates, R. Schworer, O.V. Zubkova, P.C. Tyler, *UK, New Zealand*
- 18:10 **MOLECULAR MECHANISMS FOR SIMVASTATIN-MEDIATED ENHANCEMENT OF COGNITIVE FUNCTION AND SYNAPTIC PLASTICITY**
R.A. Mans, D. Cao, L.L. McMahon, L. Li, *USA*
- 18:30 **DUAL EFFECTS OF A STATIN ON ABETA METABOLISM: UP-REGULATION OF DEGRADATION OF APP-CTF AND ABETA CLEARANCE**
N. Sato, M. Shinohara, S. Takeda, H. Rakugi, R. Morishita, *Japan*
- 18:50 **STATINS PROMOTE THE CLEARANCE OF THE AMYLOID β -PEPTIDE BY MICROGLIA**
I.Y. Tamboli, L. Christian, M. Siepmann, M. Heneka, D. Lütjohann, P. Wunderlich, J. Walter, *Germany*

SYMPOSIUM 40: CEREBRAL AMYLOID ANGIOPATHY

Chairpersons: G. Pepeu, *Italy*
TBA

- 17:10 **FOCAL CEREBRAL ISCHEMIA STIMULATES MICROGLIAL ACTIVATION AND PROMOTES A β CLEARANCE IN VASCULOTROPIC MUTANT A β PP TRANSGENIC MICE (TG-SWDI)**
W.E. Van Nostrand, C. Colton, F. Xu, *USA*
- 17:30 **NEUROVASCULAR COMPLICATIONS OF ANTI-AB IMMUNOTHERAPY**
D.M. Wilcock, D. Morgan, M.N. Gordon, M.P. Vitek, C.A. Colton, *USA*
- 17:50 **AMYLOID BETA INDUCES OXIDATIVE STRESS MEDIATED BLOOD-BRAIN BARRIER CHANGES IN CAPILLARY AMYLOID ANGIOPATHY**
A. Carrano, J. Hoozemans, S. van der Vies, A. Rozemuller, J. van Horsen, E. de Vries, *The Netherlands*
- 18:10 **MMP-2 AND MMP-9 PLASMA LEVEL AND BRAIN EXPRESSION IN CAA-ASSOCIATED HEMORRHAGIC STROKE**
M. Hernandez-Guillamon, P. Delgado, E. Martinez-Saez, M. Parés, C. Boada, A. Penalba, S. Domingues-Montanari, M. Boada, J. Munuera, A. Rovira, O. Maisterra, A. Ortega, J. Alvarez-Sabin, J. Montaner, *Spain*
- 18:30 **CROSS-LINKING OF EXTRACELLULAR MATRIX PROTEINS: CRUCIAL FACTOR IN THE PATHOGENESIS OF CEREBRAL AMYLOID ANGIOPATHY IN ALZHEIMER'S DISEASE?**
M.M.M. Wilhelmus, M. de Jager, E. Schul, J.G.J.M. Bol, A.M. Rozemuller, B. Drukarch, *The Netherlands*
- 18:50 **INSIGHTS INTO RECEPTOR-MEDIATED APOPTOTIC PATHWAYS INDUCED BY AMYLOID BETA IN CEREBRAL VASCULAR CELLS**
S. Fossati, J. Ghiso, A. Rostagno, *USA*

Sunday, March 13, 2011

07:30-08:30

Hall B

MEET THE EXPERT

07:30 MEET THE EXPERT SESSION
TBA

07:30-08:30

Hall C

MEET THE EXPERT

07:30 MEET THE EXPERT SESSION
TBA

07:30-08:30

Hall D

MEET THE EXPERT

07:30 MEET THE EXPERT SESSION
TBA

08:30-09:00

Hall A

PLENARY LECTURE 7

Chairperson: E. Giacobini, *Switzerland*

08:30 INSTRUCTIVE MODULATIONS OF TAU IN AD AND PD MODELS
L. Mucke, *USA*

Sunday, March 13, 2011

09:10-11:10

Hall A

SYMPOSIUM 41: DEMENTIA WITH LEWY BODIES

Chairpersons: **I. McKeith, *UK***
 B. Mollenhauer, *Germany*

- 09:10 **IMAGING MARKERS FOR DEMENTIA WITH LEWY BODIES**
 J. O'Brien, *UK*
- 09:30 **NEUROPATHOLOGY OF DLB - POTENTIAL FOR BIOMARKERS**
 D.W. Dickson, *USA*
- 09:50 **COMBINING BIOMARKERS IN DLB**
 J.E. Galvin, *USA*
- 10:10 **QUANTIFICATION OF NEURONAL PROTEINS IN BIOLOGICAL FLUIDS FOR**
DEMENTIA WITH LEWY BODIES
 B. Mollenhauer, *Germany*
- 10:30 **NEUROPSYCHOLOGICAL BIOMARKERS FOR DEMENTIA WITH LEWY BODIES**
 D.P. Salmon, *USA*
- 10:50 **DO WE NEED TO REDEFINE THE DLB DIAGNOSTIC CRITERIA?**
 I. McKeith, *UK*

SYMPOSIUM 42: TREATMENT OPTIONS 3: AD, PD AND ALS

Chairpersons: M. Novak, *Slovak Republic*
U. Cornelli, *Italy*

09:10 **IMMUNOMODULATION OF MEMORY IMPAIRING PROTEIN TAU IN ALZHEIMER'S DISEASE**

M. Novak, Z. Stozicka, N. Zilka, B. Kovacech, *Slovak Republic, Austria*

09:30 **IMMUNOMODULATION OF APP PROCESSING VIA THE ENDOSOMAL PATHWAY IN NEURODEGENERATIVE DISORDERS**

B. Solomon, *Israel*

09:50 **DYRK1A-INHIBITING BETA-CARBOLINE ALKALOIDS ENHANCE HIPPOCAMPAL DEPENDENT WORKING MEMORY *IN VIVO* AND ALTER THE EXPRESSION OF AD-ASSOCIATED FORMS OF PHOSPHORYLATED TAU PROTEIN *IN VITRO***

D. Frost, B. Meechoovet, R. Robeson, T. Wang, S. Menenga, H. Bimonte-Nelson, S. Gately, T. Dunckley, *USA*

10:10 **PROTECTION AGAINST TAUOPATHY BY THE DRUG CANDIDATES NAP (DAVUNETIDE) AND D-SAL**

I. Gozes, N. Shiryayev, R. Pickman, E. Giladi, *Israel*

10:30 **THE MECHANISM OF THE SALUTORY EFFECT OF TRANSTHYRETIN (TTR) ON ALZHEIMER'S DISEASE MANIFESTATIONS IN APP23 TRANSGENIC MICE: IMPLICATIONS FOR HUMAN AD**

J.N. Buxbaum, *Molecular Integrative Neuroscience, USA*

10:50 **EXPERIMENTAL BACKGROUND FOR THE USE OF ANTIDEPRESSANTS IN THE TREATMENT OF ALZHEIMER'S DISEASE**

E. Martisova, S. Gagno, G. Gereñu, B. Aisa, A. Briones, M.J. Ramirez, *Spain*

SYMPOSIUM 43: IMAGING 3: PET / MRI

Chairpersons: J.-M. Orgogozo, *France*
TBA

- 09:10 **PET IMAGING OF AMYLOID WITH FLORBETAPIR F 18 AND PET IMAGING OF DOPAMINE DEGENERATION WITH ¹⁸F-AV-133 TOGETHER DISTINGUISH AD FROM DLB PATIENTS**
M.J. Pontecorvo, H.A. Shill, M. Sabbagh, C.M. Clark, A.D. Joshi, D.M. Skovronsky, M.A. Mintun, *USA*
- 09:30 **NEOCORTICAL TEMPORAL BETA-AMYLOID DEPOSITION IS RELATED TO MEMORY DECLINE INDEPENDENTLY FROM HIPPOCAMPAL ATROPHY IN NON-DEMENTED INDIVIDUALS**
G. Chételat, V.L. Villemagne, K.E. Pike, K.A. Ellis, P. Bourgeat, G. Jones, G. O'Keefe, O. Salvado, C. Szoeke, R.N. Martins, D. Ames, C.L. Masters, C.C. Rowe, the Australian Imaging Biomarkers and Lifestyle Study of Ageing (AIBL) Research Group, *Australia, France*
- 09:50 **EXTENT OF WHITE MATTER HYPERINTENSITIES PREDICTS THE DEVELOPMENT OF AMYLOID LOAD IN ALZHEIMER'S DISEASE**
T. Grimmer, M. Faust, F. Auer, H. Förstl, A. Drzezga, A. Kurz, *Germany*
- 10:10 **APO-E4 AND BRAIN WHITE MATTER INTEGRITY IN ALZHEIMER'S DISEASE: A TRACT BASED SPATIAL STATISTICS (TBSS) STUDY UNDER 3T MRI**
B.S. Bagepally, J.P. John, H. Halahalli, M. Purushottam, O. Mukherjee, L. Kota, S. Sadananda, O. Prakash, P.T. Sivakumar, S. Bharath, S. Jain, M. Varghese, *India*
- 10:30 **IN VIVO ASSESSMENT OF VESICULAR MONOAMINE TRANSPORTER TYPE 2 IN DEMENTIA WITH LEWY BODIES AND ALZHEIMER'S DISEASE**
V.L. Villemagne, N. Okamura, S. Pejoska, J. Drago, G. Chételat, R.S. Mulligan, G. O'Keefe, G. Jones, S. Gong, H.F. Kung, C.L. Masters, D. Skovronsky, C.C. Rowe, *Australia, Japan, USA*
- 10:50 **VISUALISATION OF ASTROCYTOSIS WITH DEPRENYL-PET IN COMPARISON TO AMYLOID DEPOSITION AND GLUCOSE METABOLISM AT DIFFERENT STAGES OF RISK FOR AND IN THE PROCESS OF ALZHEIMER'S DISEASE**
M. Schöll, S.F. Carter, A. Wall, H. Engler, O. Almkvist, B. Långström, C. Graff, A. Nordberg, *Sweden*

Sunday, March 13, 2011

09:10-11:10

Hall D

SYMPOSIUM 44: APP PROCESSING

Chairpersons: L. Rajendran, *Switzerland*
M. Takeda, *Japan*

- 09:10 **PROCESSING AND REGULATION OF AMYLOID BETA-LIKE PEPTIDES**
M. Takeda, *Japan*
- 09:30 **PRESENILINS, NEURONAL CALCIUM SIGNALING AND PATHOGENESIS OF ALZHEIMER'S DISEASE**
I. Bezprozvanny, *USA*
- 09:50 **AMYLOID-IN-A-NETWORK HYPOTHESIS: RNAI SCREENS INTEGRATED WITH COMPUTATIONAL NETWORK ANALYSIS REVEAL COMPLEX FEEDBACK LOOPS IN AMYLOID CASCADE**
L. Rajendran, *Switzerland*
- 10:10 **AB ECONOMY *IN VIVO*: MICRODIALYSIS REVEALS THAT DIFFUSIBLE AB IN INTERSTITIAL FLUID FALLS AS PLAQUES ACCUMULATE WITH AGE**
S. Hong, O. Quintero-Monzon, J.R. Cirrito, B.L. Ostaszewski, T. Yang, W.T. Cavanaugh, D.M. Holtzman, D.J. Selkoe, *USA*
- 10:30 **A PERSISTENT STRESS RESPONSE TO IMPEDED AXONAL TRANSPORT LEADS TO ACCUMULATION OF AMYLOID-B IN THE ENDOPLASMIC RETICULUM, AND IS PROBABLE CAUSE OF SPORADIC ALZHEIMER'S DISEASE**
V. Muresan, Z. Muresan, *USA*
- 10:50 **APP DIMERIZATION AND PROCESSING: A PARTICULAR ROLE FOR THE KPI DOMAIN**
N. Ben Khalifa, J.-C. Renauld, P.J. Courttoy, D. Tyteca, J.-F. Collet, M. Depuydt, J.-N. Octave, S.N. Constantinescu, P. Kienlen-Campard, *Belgium*

11:10-11:40

EXHIBITION, POSTERS AND COFFEE BREAK

Sunday, March 13, 2011

11:40-12:40

Hall A

ROUND TABLE: CHALLENGES AND PERSPECTIVES ON CLINICAL TRIALS IN AD/PD AND RELATED DISEASES

Chairperson: **B. Winblad, *Sweden***

11:40 CHALLENGES AND PERSPECTIVES ON CLINICAL TRIALS IN AD/PD AND RELATED DISEASES

B. Winblad, *Sweden*

11:55 TITLE TBA

C. Sampaio, *Portugal*

12:05 THE CHALLENGING PATH OF ALZHEIMER THERAPY: WHAT'S NEXT?

E. Giacobini, *Switzerland*

12:15 Q& A AND DISCUSSION

R. Blesa; J. Kulisevsky; J.-M. Orgogozo; B. Dubois; C. Hock, *Spain, France, Switzerland*

**SATELLITE SYMPOSIUM ON IMAGING
SPONSORED BY AVID RADIOPHARMACEUTICALS INC.
SESSION 1: IMAGING AS A PRE-DIAGNOSTIC TOOL**

Chairperson: **K. Marek, USA**

- 13:00 **INTRODUCTION**
 K. Marek, USA

- 13:05 **REDEFINING NEURODEGENERATIVE DISORDERS - IDENTIFYING THE PRE-DIAGNOSTIC PERIOD**
 J.W. Langston, USA

- 13:25 **PRE-DIAGNOSTIC PD AND PARS STUDY**
 A. Siderowf, USA

- 13:45 **DISAMBIGUATING AGING FROM PRECLINICAL AD: MOLECULAR AND FUNCTIONAL IMAGING IN CLINICALLY NORMAL OLDER INDIVIDUALS**
 R. Sperling, USA

- 14:05 **IMAGING IN PRESYMPTOMATIC LRRK2 COHORT**
 S. Bressman, USA

- 14:25 **AMYLOID IMAGING IN PRE-DIAGNOSTIC AD**
 M. Mintun, USA

- 14:45 **EVALUATION OF AN REM BEHAVIOUR DISORDER (RBD) COHORT**
 E. Tolosa, Spain

**SATELLITE SYMPOSIUM ON IMAGING
SPONSORED BY AVID RADIOPHARMACEUTICALS INC.
SESSION 2: IMAGING IN DISEASE PROGRESSION**

Chairpersons: E. Tolosa, *Spain*
M. Weiner, *USA*

- 15:20 **PET SIGNAL CHANGES ASSOCIATED WITH DISEASE PROGRESSION**
K. Herholz, *UK*
- 15:40 **THE PARKINSON'S PROGRESSION MARKERS INITIATIVE: A PROSPECTIVE BIOMARKERS STUDY**
K. Marek, A. Siderowf, C. Scherzer, D. Jennings, C. Tanner, K. Kiebertz, B. Mollenhauer, J. Seibyl, C. Coffey, A. Toga, L. Shaw, J.Q. Trojanowski, S. Lasch, J. Eberling, M. Frasier, S. Chowdhury, T. Sherer, *USA, Germany*
- 16:00 **AIBL: FINDINGS FROM SERIAL PIB SCANS AND COGNITIVE ASSESSMENT**
C. Rowe, *Australia*
- 16:20 **MULTIMODAL MRI IN PARKINSON'S DISEASE**
N. Schuff, *USA*
- 16:40 **MRI PROGRESSION IN AD**
N. Fox, *UK*
- 17:00 **IMAGING IN DISEASE PROGRESSION REGULATORY PERSPECTIVE**
C. Sampaio, *Portugal*
- 17:20 **SUMMARY**
M. Weiner, *USA*

**POSTER SESSION 1:
ALZHEIMER'S DISEASE**

Poster No

- 1 **MECHANISTIC INTERACTION BETWEEN ALZHEIMER DISEASE AND DIABETES MELLITUS: ANALYSIS OF NOVEL MOUSE MODELS OF ALZHEIMER DISEASE WITH DIABETES**
S. Takeda, N. Sato, K. Uchio-Yamada, H. Rakugi, R. Morishita, *Japan*
- 2 **A STOCHASTIC SIMULATION APPROACH TO DISCOVER THE LINKS BETWEEN AB AND TAU IN LATE-ONSET AD**
C.J. Proctor, D.A. Gray, *UK, Canada*
- 3 **MILD COGNITIVE IMPAIRMENT PREVALENCE IN THE POPULATION OLDER THAN 65 YEARS OLD**
P. Medina, *Cuba*
- 4 **AUTOPSY PROVEN ALZHEIMER'S DISEASE CASE WHOSE CLINICAL DIAGNOSIS WAS CJD**
K. Hasegawa, S. Yagishita, T. Yokoyama, E. Horiuchi, M. Ishiyama, *Japan*
- 5 **BASAL FOREBRAIN CHOLINERGIC VOLUME IN ALZHEIMER'S DISEASE**
L. Zaborszky, B.A. Ardekani, J. DeLuca, J.F. Sumowski, G. Wylie, Alzheimer's Disease Neuroimaging Initiative, *USA*
- 6 **AN AGE-BASED THEORY OF NEURODEGENERATIVE DISEASE**
K. Herrup, *USA*
- 7 **EVIDENCE FOR "BACE-INHIBITOR RESISTANT" PRODUCTION OF SPECIFIC AB VARIANTS FROM WILD TYPE BUT NOT FROM SWEDISH MUTANT APP**
H. Schieb, S. Weidlich, H. Kamrowski-Kruck, O. Jahn, H. Kratzin, H.J. Knölker, J. Wiltfang, H.W. Klafki, *Germany*

PROTEIN MISFOLDING AND AGGREGATION

- 8 **A β ₁₋₄₂ NITROTYROSINATION IS INCREASING ITS OLIGOMERIZATION**
E. Ramos-Fernández, F.X. Guix, G. ILL-Raga, M. Tajés, E. Palomer, M. Bosch, J.J. Valle-Delgado, X. Fernández-Busquets, F.J. Muñoz, *Spain*
- 9 **OLIGOMES OF AB1-42 INDUCES UPREGULATION OF CYCLOOXYGENASE-2 (COX-2), AND OF INDUCIBLE OXIDE NITRIC (INOS) IN ASTROCYTES VIA AN INTERACTION WITH NUCLEAR FACTOR KAPPAB (NF- κ B) PROTEINS**
A. Gonzalo-Ruiz, M.P. Gonzalo, J.M. Sanz-Anquela, J. Arévalo-Serrano, I. Carrero, *Spain*
- 10 **IN VITRO AND IN VIVO PHARMACOLOGICAL EFFECTS OF PROTOFIBRIL AB-SELECTIVE MONOCLONAL ANTIBODIES**
T. Yamauchi, A. Ogasawara, Y. Ishikawa, T. Miyagawa, T. Kimura, *Japan*
- 11 **AMYLOID β -PEPTIDE INTERFERES WNT SIGNALING PATHWAY DURING NEURONAL DIFFERENTIATION**
A. Shruster, H. Eldar-Finkelman, E. Melamed, D. Offen, *Israel*

POSTER SESSION 1: (contd.)

PROTEIN MISFOLDING AND AGGREGATION

Poster No

- 12 **AB DIMER ASSEMBLIES: A POTENTIAL TARGET FOR THE TREATMENT OF ALZHEIMER'S DISEASE**
B. O'Nuallain, D.F. Freir, I. Klyubin, J. McDonald, M.J. Rowan, D.M. Walsh, *Ireland*
- 13 **AB OLIGOMER BINDING TO PRP^C ACTIVATES FYN TO INDUCE EXCITOTOXICITY, DENDRITIC SPINE LOSS AND ALTERED EPILEPTIFORM ACTIVITY**
J.W. Um, H. Nygaard, J. Heiss, M. Stagi, E. Gunther, A. Vortmeyer, S.M. Strittmatter, *USA*
- 14 **TRANSMEMBRANE DOMAIN OF TMP21 MODULATES AMYLOID-BETA PRODUCTION**
S. Kanemoto, B. Ansoleaga, P. Fraser, *Canada*
- 15 **DISTINCTIVE OLIGOMERIC PROFILE OF THE RECESSIVE A673V APP MUTATION**
M.L. Moro, M. Catania, G. Di Fede, F. Moda, A.R. Viscomi, L. Colombo, A. Uggetti, G. Giaccone, M. Morbin, M. Salmona, F. Tagliavini, *Italy*
- 16 **GLYCODENDRIMERS AS MODULATORS OF ALZHEIMER'S DISEASE AMYLOID PEPTIDE FIBRIL FORMATION**
O. Klementieva, A. Gella Concustell, N. Beseny-Cases, H.D.T. Mertens, D. Appelhans, J. Cladera, *Spain, Germany*
- 17 **A CELL LINE EXCLUSIVELY PRODUCING HIGH AMOUNTS OF NEUROTOXIC, HOMOGENOUS AND NATIVE ABETA DIMERS**
A. Müller-Schiffmann, A. Andreyeva, A.H.C. Horn, K. Gottmann, H. Sticht, C. Korth, *Germany*
- 18 **DEVELOPMENT OF A FLUORESCENCE-BASED ASSAY TO SCREEN DRUG AGAINST ALZHEIMER DISEASE**
P. Villacé, D. Kortazar, R.M. Mella, I. Badiola, A.C. Salado, J. Gamiz, *Spain*
- 19 **UNDERSTANDING HOW AFFIBODIES CLEAR AMYLOID AT THE CELLULAR LEVEL**
T. Pereira de Barros, L.M. Luheshi, T. Härd, C.M. Dobson, *UK, Sweden*
- 20 **B-ESTRADIOL PROTECTION AGAINST B-AMYLOID-INDUCED NEUROTOXICITY IN RAT CORTICAL NEURONS VIA JNK SIGNALING AND MODULATION OF BCL-2 FAMILY PROTEINS**
L. Costa, A. Paganelli, P. Bosco, A. Lanzzone, A. Gulino, M. Napolitano, *Italy*
- 21 **EFFECTS OF ALOISINES, A NEW FAMILY OF CDK/GSK3 INHIBITORS, ON APP PROCESSING**
A. Noel, L. Barrier, B. Fauconneau, S. Ingrand, *France*

POSTER SESSION 1: (contd.)

PROTEIN MISFOLDING AND AGGREGATION

Poster No

- 22 **COPPER(II) AND ZINC(II) COORDINATION DIFFERENTLY AFFECTS THE MORPHOLOGY OF AB(1-42) AGGREGATES**
P. De Bona, D. Milardi, F. Attanasio, M.F.M. Sciacca, S. Cataldo, B. Pignataro, E. Rizzarelli, G. Pappalardo, *Italy*
- 23 **REELIN EXPRESSION AND PROCESSING ARE MODULATED BY B-AMYLOID**
I. Cuchillo-Ibañez, A. Botella-López, T. Cotrufo, S. San Mok, Q.-X. Li, M. Dierssen, E. Soriano, J. Saez-Valero, *Spain, Australia*
- 24 **BASIC STUDIES ON THE ACTIVITY OF B-AMYLOID MONOMERS: AN INVESTIGATION TOWARDS NEW THERAPEUTIC APPROACHES**
F.M. Tomasello, M.L. Giuffrida, F. Caraci, P. De Bona, F. Nicoletti, E. Rizzarelli, G. Pappalardo, A. Copani, *Italy*
- 25 **STUDY OF INTERACTIONS OF 24(S/R)-HYDROXYCHOLESTEROLS WITH 1-42 AMYLOID BETA USING MOLECULAR MODELING METHODS**
Z. Kriz, Z. Kristofikova, J. Koca, *Czech Republic*
- 26 **DISAGGREGATION OF B-AMYLOID FIBRILS *IN VITRO* BY KMSB600**
H.Y. Kim, M.J. Kim, Y. Kim, D.J. Kim, *Republic of Korea*
- 27 **RECESSIVE A673V APP MUTATION: CENTRAL ROLE OF MUTANT AB1-40 IN OLIGOMERIZATION AND AMYLOIDOGENESIS**
G. Di Fede, M. Catania, M.L. Moro, R. Ghidoni, V. Albertini, G. Giaccone, M. Morbin, A. Uggetti, F. Moda, M. Salmona, F. Tagliavini, *Italy*
- 28 **DIFFERENTIAL EFFECTS OF MUTATIONS IN CODON 716 OF THE AMYLOID PRECURSOR PROTEIN ON APP PROCESSING: CLINICAL AND BIOCHEMICAL CORRELATES**
M. Suarez-Calvet¹, C. Guardia-Laguarta, M. Pera, N. Badiola, D. Alcolea, N. Setó-Salvia, O. Dols, J. Clarimón, R. Blesa, A. Lleó, *Spain*
- 29 **A NOVEL MULTIPLEXING ASSAY TO DETECT BOTH BETA- AND GAMMA-CLEAVAGES OF THE AMYLOID PRECURSOR PROTEIN FROM A SINGLE SAMPLE**
B. Felmy, S. Lange, R. Umek, L. Rajendran, *Switzerland, USA*

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- 30 **FUNCTIONAL AND STRUCTURAL CHANGES TO THE CA1 NETWORK IN BETA-AMYLOID PATHOLOGY**
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- 31 **APP TRANSMEMBRANE SEQUENCE DIMERIZATION IS AFFECTED BY AB42-LOWERING COMPOUNDS**
L. Richter, L.-M. Munter, J. Ness, P.W. Hildebrand, M. Dasari, S. Unterreitmeier, B. Bulic, M. Beyermann, R. Gust, B. Reif, S. Weggen, D. Langosch, G. Multhaup, *Germany*
- 32 **STROMAL CELL-DERIVED FACTOR 1A DECREASES B-AMYLOID DEPOSITION IN APP/PS1 TRANSGENIC MICE BY REGULATING CHEMOTOXIS OF MICROGLIA**
Q. Wang, Y. Xu, W. Wang, Z. Zhu, *China*
- 33 **SPONTANEOUS AND ENZYME-CATALYZED FORMATION OF PYROGLUTAMIC ACID (PE) AT THE N-TERMINI OF AB, ABRI AND ADAN**
F. Seifert, M.-T. Weichler, A. Piontek, H.-U. Demuth, S. Schilling, K. Tittmann, *Germany*
- 34 **IMMUNOHISTOLOGICAL CORRELATION BETWEEN SSAO/VAP-1, BETA AMYLOID (AB) AND STRESS-RELATED PROTEINS, IN POST-MORTEM BRAIN OF ALZHEIMER AND ALZHEIMER WITH DIABETES PATIENTS**
M. Sole, T. Valente, A. Gella, N. Durany, M. Unzeta, *Spain*
- 35 **INTERPLAY BETWEEN THE METALLOPROTEINASE/TIMP SYSTEM AND APP/ABETA METABOLISM**
K. Baranger, N. Py, J. Sevalle, A. Bernard, E. Charrat, Y. Marchalant, F. Checler, M. Khrestchatisky, S. Rivera, *France*
- 36 **GLUTAMINYL CYCLASE EXPRESSION IN SUBCORTICAL NUCLEI MAY ACCOUNT FOR PGLU-A β PATHOLOGY IN ALZHEIMER'S DISEASE**
M. Morawski, M. Hartlage RübSamen, C. Jäger, A. Waniek, S. Schilling, C. Schwab, P.L. McGeer, T. Arendt, H.-U. Demuth, S. Roßner, *Germany, Canada*
- 37 **HISTOLOGICAL AND ULTRASTRUCTURAL (IMMUNO-ELECTROM MICROSCOPY) STUDY OF COTTON WOOL PLAQUES IN A PATIENT OF ALZHEIMER DISEASE WITH PRESENILIN 1 MUTATION**
M. Ishiyama, K. Hasegawa, T. Yokoyama, M. Shibuya, S. Yagishita, *Neuropathology, Japan*
- 38 **THE EFFECT OF PERIPHERAL GROWTH HORMONE ADMINISTRATION ON LONG-TERM POTENTIATION (LTP) IN ANIMAL MODEL OF DEMENTIA TYPE OF THE ALZHEIMER'S DISEASE**
A.H. Doulah, A. Haeri-Rohani, A. Sarkaki, M. Badavi, Y. Farboud, *Iran*

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PROTEIN MISFOLDING AND AGGREGATION

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- 39 **PROBING THE STRUCTURE AND AGGREGATION KINETICS OF AB DIMERS USING REGION-SPECIFIC CROSS-LINKING**
T. O'Malley, N.A. Oktaviani, B. O'Nuallain, S. Linse, F.A.A. Mulder, D.M. Walsh, Ireland, The Netherlands, Sweden
- 40 **IRAKS MEDIATE MICROGLIAL RESPONSE TO FIBRILLAR AB**
B. Cameron, G.E. Landreth, USA
- 41 **NITRATION OF AMYLOID B AT TYROSINE 10 PROMOTES AGGREGATION AND PLAQUE FORMATION**
M. Kummer, M. Hermes, T. Hammerschmidt, S. Kumar, D. Terwel, J. Walter, H.-C. Pape, S. König, S. Röber, T. Klockgether, M. Heneka, Germany
- 42 **THE VULNERABILITY OF THE SUBCALLOSAL PART OF VENTROMEDIAL PREFRONTAL CORTEX IN FRONTOTEMPORAL LOBAR DEGENERATION AND ALZHEIMER'S DISEASE**
O.E. Lindberg, E. Westman, S. Karlsson, P. Östberg, L.-O. Wahlund, Sweden
- 43 **AFFINITY BINDING AND INTERACTION STRUCTURE OF THE NEUROPROTECTIVE PROTEASE INHIBITOR CYSTATIN C WITH ALZHEIMER'S β -AMYLOID PEPTIDE**
G. Paraschiv, P. Czaplowska, M. Przybylski, Germany, Poland
- 44 **HIGH-RESOLUTION HYDRODYNAMIC MODELING OF PARTICLES FORMED BY THE AGGREGATING AMYLOID-B PEPTIDE**
L. Nagel-Steger, B. Demeler, W. Meyer-Zaika, K. Hochdörffer, T. Schrader, D. Willbold, Germany, USA
- 45 **SMAD PROTEINS CONTRIBUTE TO THE DEREGULATION OF CELL CYCLE PROTEINS IN AD BRAIN**
U. Ueberham, I. Hilbrich, E. Ueberham, S. Rohn, P. Glöckner, M.K. Brückner, T. Arendt, Germany

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- 46 **EPILEPSY: A MODEL FOR STUDYING EARLY EVENTS IN THE EVOLUTION OF ALZHEIMER'S DISEASE AND PARKINSON'S DISEASE**
S. Griffin, O. Aboud, R. Jones, R. Mrak, F. Boop, S. Barger, USA
- 47 **VISUOSPATIAL ASSESSMENT BY VIRTUAL 3D RADIAL OPTIC FLOW ILLUSION IN HEALTHY AGING, MILD ALZHEIMER'S DISEASE (AD), AND PRE-DEEP BRAIN STIMULATION (DBS) PARKINSON'S DISEASE (PD) SUBJECTS**
V.S. Pelak, M.-H. Choi, S. Jung, B. Halliday, E. Hager, O. Klepitskaya, S. Ojemann, C.M. Filley, M. Dubin, USA

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- 48 **THE MOLECULAR CHAPERONE PREFOLDIN CAN CAPTURE AGGREGATION PRONE STATES OF AMYLOID-BETA AND MIGHT PLAY A ROLE IN THE PROGRESS OF ALZHEIMER'S DISEASE**
K. Sorgjerd, T. Zako, M. Sakono, P. Stirling, M. Leroux, M. Maeda, *Japan, Canada*
- 49 **CORPUS CALLOSUM ATROPHY IN PATIENTS WITH MILD ALZHEIMER'S DISEASE**
K. Frederiksen, E. Garde, A. Skimminge, C. Ryberg, E. Rostrup, W.F. Baaré, H.R. Siebner, A.-M. Hejl, A.-M. Leffers, G. Waldemar, *Denmark*
- 50 **POLYMORPHISM IN APOA1 INFLUENCES HDL-CHOLESTEROL LEVELS BUT IS NOT A MAJOR RISK FACTOR OF ALZHEIMER'S DISEASE**
M.A. Smach, B. Charfeddine, L. Ben Othman, T. Lammouchi, K. Limem, *Tunisia*
- 51 **P53 CONFORMATIONAL STATE AFFECTS NEURITE MORPHOLOGY**
L. Buizza, S.A. Bonini, G. Ferrari-Toninelli, M. Memo, D. Uberti, *Italy*
- 52 **HERPES SIMPLEX VIRUS TYPE I (HSV-1) INDUCES THE ACCUMULATION OF INTRACELLULAR B-AMYLOID IN AUTOPHAGIC COMPARTMENTS IN HUMAN NEUROBLASTOMA CELLS**
S. Santana, M. Recuero, I. Sastre, M.J. Bullido, F. Valdivieso, J. Aldudo, *Spain*
- 53 **ALTERATIONS IN PHOSPHATIDYLETHANOLAMINE LEVELS AFFECT THE GENERATION OF AB**
I. Nestic, F. Guix, K. Vennekens, V. Michaki, F. Feiguin, B. de Strooper, C. Dotti, T. Wahle, *Belgium, Italy*
- 54 **QUENCHED H/D EXCHANGE NMR CHARACTERIZATION OF AMYLOID-B PEPTIDE AGGREGATES FORMED IN THE PRESENCE OF CU²⁺ OR ZN²⁺**
A. Olofsson, M. Lindhagen-Persson, A. Öhman, *Sweden*
- 55 **DECODING THE CONFORMATIONAL CHANGES OF THE ALZHEIMER AMYLOID-B PEPTIDE IN THE FIBRILS FORMATION PATHWAY**
R. Sarroukh, E. Cerf, R. Gasper, S. Derclaye, Y. Dufrière, J.-M. Ruyschaert, E. Goormaghtigh, V. Raussens, *Belgium*
- 56 **CHANGES IN ERYTHROCYTE DEFORMABILITY IN ALZHEIMER'S DISEASE: A ROLE FOR NITRIC OXIDE SYNTHASE**
F. Misiti, C. Carelli Alinovi, E. Capoluongo, B. Sampaolese, M.E. Clementi, B. Giardina, *Italy*

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- 57 **EMBRYONIC STEM CELL-DERIVED NEURONAL MODEL FOR BIOGENESIS AND SYNAPTIC ACTION OF AMYLOID BETA-PEPTIDE**
L.B. McIntire, N. Landman, A.Z. Moore, M.-S. Kang, T.-W. Kim, *USA*
- 58 **THERAPEUTIC ANTIBODIES DIRECTED AGAINST APP-C99 REDUCE AB PRODUCTION**
J. Houacine, T. Bolmont, L. Aeschbach, M. Oulad-Abdelghani, P. Fraering, *Switzerland, France*
- 59 **PHOSPHORYLATION OF THE ALZHEIMER'S AMYLOID PRECURSOR PROTEIN MODULATES ITS RETROMER-MEDIATED RETRIEVAL FROM THE ENDOSOME TO THE TGN**
S.I. Vieira, S. Rebelo, H. Esselmann, J. Wiltfang, J. Lah, R. Lane, S.A. Small, S. Gandy, E.F. da Cruz e Silva, O.A.B. da Cruz e Silva, *Portugal, Germany, USA*
- 60 **GLYCOSYLATION OF APP AND SECRETION OF N-TERMINALLY TRUNCATED AB PEPTIDES IN HUMAN MONONUCLEAR PHAGOCYTES: IMPACT OF INFLAMMATION AND PHAGOCYTOSIS**
P. Spitzer, M. Herrmann, H.-W. Klafki, A. Smirnov, P. Lewczuk, J. Kornhuber, J. Wiltfang, **J.M. Maler**, *Germany*
- 61 **TISSUE PLASMINOGEN ACTIVATOR (TPA) INDUCES MICROGLIA ACTIVATION THROUGH A MOLECULAR MECHANISM INVOLVING ACTIVATION OF MAPK AND AKT SIGNALLING PATHWAYS**
D. Pineda, C. Ampurdanes, M.G. Medina, J. Serratos, J.M. Tusell, E. Ortiz-Zapater, N. Martinez-Bosch, R. Mohan, J. Saura, P. Navarro, *Spain*
- 62 **ENHANCING PROTEASOMAL ACTIVITY TO FACILITATE THE PROTEOLYTIC DEGRADATION AND CLEARANCE OF MISFOLDED PROTEINS ASSOCIATED WITH NEURODEGENERATIVE DISEASES**
S. Jacobsen, C. Conrad, B. Tait, R. Chambers, M. Foley, M. Goulet, E. Nokes, R. King, D. Finley, P. Reinhart, *USA*
- 63 **PLASMOLOGEN SYNTHESIS IS REGULATED VIA ALKYL-DIHYDROXYACETONEPHOSPHATE-SYNTASE (AGPS) BY AMYLOID PRECURSOR PROTEIN (APP) PROCESSING AND IS AFFECTED IN ALZHEIMER'S DISEASE**
M.O.W. Grimm, J. Kuchenbecker, T.L. Rothhaar, S. Grösgen, B. Hundsdörfer, V.K. Burg, P. Friess, U. Müller, H.S. Grimm, M. Riemenschneider, T. Hartmann, *Germany*
- 64 **AMYLOID BETA LOCALISATION, AND INTERACTION WITH BIOMIMETIC MEMBRANES**
M. Vestergaard, M. Masamune, T. Hamada, M. Takagi, *Japan*

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- 65 **HUMAN IPS CELL MODELS OF NEURODEGENERATIVE DISEASES**
A. Abeliovich, *USA*
- 66 **ROLE OF GLUTAMATE RECEPTORS IN A β -MEDIATED FACILITATION OF LONG-TERM DEPRESSION OF SYNAPTIC TRANSMISSION *IN VIVO***
N.-W. Hu, R. Anwyl, M.J. Rowan, *Ireland*
- 67 **INVESTIGATING THE CYTOPROTECTIVE FUNCTIONS OF ENDOGENOUS APP FAMILY MEMBERS IN STRESS SIGNALING AND AGING**
A. Zymny, S. Chang, F. Baumkötter, S. Kins, C. Behl, D. Kögel, *Germany*
- 68 **TREATMENT WITH PROPOFOL AND THIOPENTAL INDUCE A DECREASE OF GM1 GANGLIOSIDE-RICH MICRODOMAINS IN NEURONS**
N. Yamamoto, H. Taniura, K. Suzuki, K. Sobue, *Japan*
- 69 **ROLE OF STRESS PROTEIN-INDUCED GLIAL CELL ACTIVATION IN THE MANAGEMENT OF INFLAMMATION OCCURRING DUE TO ENVIRONMENTAL STRESS: PROTECTIVE ROLE OF CURCUMIN**
P.K. Ssood, *India*
- 70 **BLOOD DERIVED MONOCYtic CELLS REPOPULATE MICROGLIA DEPLETED MOUSE BRAINS AND MAINTAIN A MACROPHAGIC MORPHOLOGY**
S.A. Grathwohl, N.H. Varvel, F. Baumann, F.L. Heppner, M. Jucker, *Germany*
- 71 **MECHANISM OF MATURE NEURON-SPECIFIC TOXICITY INDUCED BY HIGH-MASS AMYLOID B-PROTEIN ASSEMBLY WITH A UNIQUE TOXIC SURFACE**
M. Hoshi, T. Ohnishi, M. Inoue, H. Hiroaki, Y.-I. Nabeshima, A. Kakita, *Japan*
- 72 **CDK11/PITSLRE PROTEIN KINASE IS DIFFERENTIALLY EXPRESSED IN THE SWEDISH MUTANT PHENOTYPE OF M17 NEUROBLASTOMA CELLS**
V. Bajic, B. Su, X. Zhu, S. Siedlak, L. Zivkovic, B. Plecas-Solarovic, Z. Milicevic, B. Spremo-Potparevic, M.A. Smith, *Serbia, USA*
- 73 **GSK3B OVEREXPRESSION INDUCES NEURONAL DEATH AND A DEPLETION OF THE NEUROGENIC NICHES IN THE DENTATE GYRUS**
A. Fuster-Matanzo, M. Sirerol-Piquer, P. Gómez-Ramos, F. Hernández, M. Pérez, M.A. Morán, J.J. Lucas, J. Ávila, J.M. García-Verdugo, *Spain*
- 74 **SWARNA BHASMA (ANCIENT GOLD NANO PARTICLES) - ANCIENT MEDICINE FOR TREATMENT OF ALZHEIMER'S DISEASE / PARKINSON'S DISEASE OR PROTEINOPATHIES**
D.S. Agrawal, *India*

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- 75 **AMYLOID-BETA INHIBITS THE ASTROCYTIC GLUTAMATE UPTAKE THROUGH A MECHANISM INVOLVING ADENOSINE A2A RECEPTOR ACTIVATION**
P.M. Agostinho, M. Matos, E. Augusto, A. Rodrigues, R.A. Cunha, *Portugal, Brazil*
- 76 **AD-ASSOCIATED FRAMESHIFT UBIQUITIN (UBB+1) CAUSES AGE-DEPENDENT CYTOTOXICITY AND CELL DEATH IN YEAST**
R.J. Braun, C. Sommer, F. Madeo, *Germany, Austria*
- 77 **IMMUNOFLUORESCENCE MICROSCOPY STUDIES ON AB TOXICITY AND THE EFFECTS OF IRON CHELATOR CO-TREATMENT ON MORPHOLOGICAL CHANGES AND APOPTOTIC MARKERS IN MICROGLIAL CELLS**
K. Künnis-Beres, K. Kõivupuu, A. Sirgmetts, T. Land, S. Fernaeus, *Estonia*
- 78 **LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 (LRP1) PROMOTES BINDING AND ENDOCYTOSIS OF THE MATRIX METALLOPROTEINASE INHIBITOR TIMP-1 IN NEURONS. IMPLICATIONS FOR ABETA ACCUMULATION?**
J. Thevenard, B. Langlois, G. Perrot, M. David, P. Vlieghe, J. Devy, L. Martiny, M. Khrestchatisky, S. Rivera, S. Dedieu, H. Emonard, *France*
- 79 **HIF-1A LEVELS IN PATIENTS WITH ALZHEIMER'S' DISEASE**
S. Rahatli, M. Cankurtaran, B.B. Yavuz, Z. Ülger, M. Halil, Y. Yesil, E. Cankurtaran, S. Ariogul, *Turkey*
- 80 **THE SHEDDING OF RECEPTOR FOR ADVANCED GLYCATION ENDPRODUCTS OCCURS INDEPENDENTLY FROM PROTEIN KINASE A ACTIVATION**
R. Postina, E. Kojro, V.V. Metz, *Germany*
- 81 **PYROGLUTAMATE MODIFIED ABETA ACCUMULATES AROUND SYNAPSES AND MICRO-PLAQUES EARLY IN THE DEVELOPMENT OF ALZHEIMER'S DISEASE**
M. Mandler, R. Santic, E. Kopinits, A. Adame, E. Rockenstein, F. Mattner, E. Masliah, *Austria, USA*
- 82 **IMMORTALIZED MOUSE HYPOTHALAMIC GT1-7 NEURONS AS CELL CULTURE MODEL FOR GLUTAMINYL CYCLASE FUNCTION**
C. Höfling, N. Popelka, M. Hartlage Rüksamen, U. Zeitschel, M. Holzer, H. Cynis, H.-U. Demuth, M. Morawski, S. Roßner, *Germany*
- 83 **CHARACTERIZING AD-RELATED NETWORK DYSFUNCTION WITH THALLIUM AUTOMETALLOGRAPHY**
H. Lison, K. Baldauf, J. Schneeberg, M. Zappe, F. Schneider, J. Goldschmidt, R. Rönicke, K. Reyman, *Germany*

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- 84 **AMYLOID PRECURSOR PROTEIN REGULATES SREBP-MEDIATED NEURONAL LIPID HOMEOSTASIS IN MICE AND HUMANS**
N. Pierrot, D. Tyteca, L. D'Auria, I. Dewachter, B. Tasiaux, L. El Haylani, A. Laquerrière, J.-B. Demoulin, D. Campion, J.-P. Brion, P. Courtoy, P. Kienlen-Campard, J.-N. Octave, *Belgium, France*

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- 85 **VALIDITY OF THE MONTREAL COGNITIVE ASSESSMENT IN THE DETECTION OF COGNITIVE DYSFUNCTION IN HUNTINGTON'S DISEASE**
O. Bezdicek, V. Majerova, M. Novak, T. Nikolai, E. Ruzicka, J. Roth, *Czech Republic*
- 86 **SECONDARY STRUCTURE OF HUNTINGTIN AMINO-TERMINAL REGION CONTAINING POLYGLUTAMINE EXPANSION**
M.W. Kim, *USA*
- 87 **GENERATION OF A HUNTINGTON'S DISEASE MOUSE MODEL IN ALPHA-SYNUCLEIN KNOCK-OUT BACKGROUND**
C. Tomas-Zapico, M. Díez-Zaera, I. Ferrer, M.T. Miras-Portugal, M. Díaz-Hernández, J.J. Lucas, *Spain*
- 88 **STABILIZATION OF THE COIL-COILED DOMAIN OF HIP1 RESULTS IN LOSS OF CELL VIABILITY AND DECREASED HUNTINGTIN PROTEIN INTERACTION**
S.N. Fontaine, X. Lin, S. Poorfarahani, M.J. Illingworth, J.A. Ybe, *USA*
- 89 **ROLE OF MMP-9 IN STRIATAL BLOOD-BRAIN BARRIER DISRUPTION IN A 3-NITROPROPIONIC ACID MODEL OF HUNTINGTON'S DISEASE**
J. Duran-Vilaregut, J. del Valle, G. Manich, A. Camins, M. Pallàs, J. Vilaplana, C. Pelegrí, *Spain*
- 90 **NEUROPROTECTIVE EFFECT OF LAMOTRIGINE AGAINST 3-NITROPROPIONIC ACID INDUCED HUNTINGTON'S LIKE SYMPTOMS: POSSIBLE GABA MECHANISM**
P. Kumar, H. Kalonia, A. Kumar, *India*
- 91 **VOLUME LOSS, BUT NO MICROSTRUCTURAL CHANGES, DETECTED WITH NON INVASIVE MRI IN THE AGED YAC128 MOUSE MODEL**
R. Delgado y Palacios, I. Blockx, R. Vreys, J. Veraert, J. Magg, H.P. Nguyen, J. Sijbers, A. Van der Linden, *Belgium, Germany*
- 92 **REDUCTION OF MUTANT HUNTINGTIN AGGREGATION AND TOXICITY BY LYSOSOMAL CATHEPSINS D AND B IN PRIMARY NEURONS**
Q. Liang, X. Ouyang, J. Zhang, *USA*

VASCULAR DEMENTIA

- 93 **RELATIONSHIP BETWEEN THYROID HORMONE LEVELS AND REGIONAL CEREBRAL BLOOD FLOW IN ALZHEIMER'S DISEASE**
N. Kimura, T. Kumamoto, H. Masuda, T. Hanaoka, T. Okazaki, R. Arakawa, *Japan*

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VASCULAR DEMENTIA

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- 94 **EFFECT OF HYPERTENSION ON CEREBROVASCULAR AUTOREGULATION IN MURINE MODELS OF AD AND VASCULAR DEMENTIA**
T.S. Wijasa, C. Capone, V. Zerbi, A. Heerschap, J.A. Claassen, A.J. Kiliaan,
The Netherlands
- 95 **ATRIAL FIBRILLATION PREDICTS COGNITIVE IMPAIRMENT IN ISCHEMIC STROKE PATIENTS**
E.H. Mizrahi, A. Waitzman, M. Arad, A. Adunsky, *Israel*
- 96 **TREATMENT OF COGNITIVE DISORDERS IN EARLY REHABILITATION PERIOD OF ISCHEMIC STROKE**
L. Pustokhanova, E. Morozova, *Russia*
- 97 **DIFFERENT CEREBROSPINAL FLUID BIOCHEMICAL PATTERNS IN PATIENTS WITH DEMENTIA WITH SUBCORTICAL WHITE MATTER LESIONS AND PURE ALZHEIMER'S DISEASE**
M. Bjerke, U. Andreasson, Å. Edman, H. Zetterberg, K. Blennow, A. Wallin, *Sweden*
- 98 **EMBOLUS EXTRAVASATION IN THE CEREBRAL MICROCIRCULATION: A MECHANISM WITH POTENTIAL IMPLICATIONS IN ALZHEIMER'S AND VASCULAR DEMENTIA**
J. Grutzendler, *USA*
- 99 **ACUTE HYPERGLICEMIA AND COGNITIVE IMPAIRMENT AFTER STROKE IN NON-DIABETIC PATIENTS**
A. Kulesh, V. Schestakov, *Russia*
- 100 **EFFECT OF NIGELLA SATIVA AND ITS ACTIVE CONSTITUENT, THYMOQUINONE, ON LEARNING AND MEMORY IMPAIRMENTS FOLLOWING LONG-TERM CEREBRAL HYPOPERFUSION IN RATS**
H.R. Sadeghnia, M. Hosseini, K. Shahraki, *Iran*
- 101 **EPIGALLOCATECHIN GALLATE AMELIORATES DIABETIC ENCEPHALOPATHY: SUPPRESSION OF NF-KB SIGNALING PATHWAY**
A. Kuhad, K. Chopra, *India*
- 102 **MULTI-NUTRIENT SUPPLEMENTATION INDUCES CHANGES IN SYNAPTIC PROTEIN EXPRESSION**
P.J. Savelkoul, M.M. Merkes, A.A. Kuipers, L.M. Broersen, R.J. Hageman, P.J. Kamphuis, *The Netherlands*
- 103 **GLUCOLIPOTOXICITY AND AMYLOID FORMATION IN TYPE 2 DIABETES: GLUCOSE IMPAIRS IAPP PROCESSING AND PALMITATE IMPAIRS IAPP SORTING**
A. Plesner, G. Trigo-Gonzalez, C.B. Verchere, *Canada*
- 104 **INDUCTION OF TNF-A BY HUMAN ISLET AMYLOID POLYPEPTIDE IS DEPENDENT ON IL-1 BUT NOT TLR2 OR TLR4 SIGNALLING**
C. Westwell-Roper, C.B. Verchere, *Canada*

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PRION DISEASES

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- 105 **ESTABLISHMENT OF THE CELL LINE EXPRESSING HUMAN PRION PROTEIN ON PRP⁰⁰ BACKGROUND**
M. Prcina, P. Filipcik, E. Kontsekova, *Slovak Republic*
- 106 **A HIGHLY CONSERVED REGION OF PRP MODULATES PRION INFECTIVITY AND GENERATES HIGHLY INFECTIOUS, PROTEASE SENSITIVE FORMS OF INFECTIOUS PRIONS**
C.F. Harrison, V.A. Lawson, C.L. Masters, R. Cappai, K.J. Barnham, A.F. Hill, *Australia*
- 107 **OXIDATIVE STRESS CHANGES DEFINE ACUTE, ADAPTIVE AND CHRONIC PHASES OF *IN-VITRO* PRION INFECTION AND CORRELATE WITH CELLULAR TOXICITY**
C. Haigh, A. Mc Glade, V. Lewis, C. Masters, V. Lawson, S. Collins, *Australia*
- 108 **UNDERSTANDING THE MOLECULAR MECHANISM OF PRIONS AND ALZHEIMER'S DISEASE PATHOGENESIS**
N. Shayala, S. Mallick, I. Rashid, J. Jesmin, *Bangladesh*
- 109 **INTENSIFIED AND COMBINED NEURODEGENERATION IN E200K GENETIC CREUTZFELDT-JAKOB DISEASE**
G.G. Kovacs, J. Seguin, I. Quadrio, R. Höftberger, I. Kapás, A. Gaëlle Biacabe, N. Streichenberger, D. Meyronet, R. Sciò, R. Vandenberghe, K. Majtenyi, T. Ströbel, H. Budka, A. Perret-Liaudet, *Austria, Hungary, France, Belgium*
- 110 **DIAGNOSTICS OF PRION DISEASES BY SINGLE PARTICLE COUNTING**
O. Bannach, F. Henke, S.A. Funke, D. Willbold, D. Riesner, E. Birkmann, *Germany*
- 111 **PRION PROTEIN IS A KEY DETERMINANT OF ALCOHOL SENSITIVITY THROUGH THE MODULATION OF N-METHYL-D-ASPARTATE RECEPTOR (NMDAR) ACTIVITY**
A. Petit-Paitel, B. Menard, A. Guyon, N. Zsurger, J. Chabry, *France*
- 112 **IDENTIFICATION OF GENETIC PROTECTIVE FACTORS IN CJD AND HEALTHY CARRIERS OF THE E200K PRNP MUTATION**
A. Poggi, E. De Pascali, A. Ladogana, M. Puopolo, M. Pocchiarri, *Italy*
- 113 **NEUROPATHOLOGICAL ANALYSIS OF GENETIC PRION DISEASE ASSOCIATED WITH THE RARE E196K MUTATION**
S. Eigenbrod, P. Frick, A. Giese, I. Zerr, H. Kretzschmar, *Germany*

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- 114 **NEAR INFRA-RED FLUORESCENCE IMAGING OF NEURONAL CELL DEATH IN A LIVE ANIMAL MODEL OF PRION DISEASE**
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- 115 **CYCLOSPORIN A INDUCES FORMATION OF NOVEL PRION PROTEIN AGGREGATES**
R. Lyakhovetsky, E. Cohen, Y. Yedidia-Eldar, A. Taraboulos, *Israel*
- 116 **THE CONTRIBUTION OF THE SELF POLYQ LOAD [SOMATIC MOSAICISM] IN THE CNS TO THE ONSET, DISEASE DURATION AND PROGRESSION RATE OF SCA2**
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- 117 **A RARE CAUSE OF CEREBELLAR ATAXIA SYNDROME: SUPERFICIAL SIDEROSIS OF CENTRAL NERVOUS SYSTEM**
S.K.S. Ting, P. Kumar M, *Singapore*
- 118 **GENOTYPE-PHENOTYPE CORRELATION SHOWS AGE-AT-ONSET-INDEPENDENT EFFECT OF LINGO1 ON ESSENTIAL TREMOR**
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- 119 **MEIGE'S SYNDROME ASSOCIATED WITH BRAIN TUMOR**
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- 120 **BIPERIDEN FOR THE TREATMENT OF SEGMENTAL AND GENERALIZED DYSTONIA**
N. Kovacs, J. Janszky, F. Nagy, G. Dibo, S. Komoly, *Hungary*
- 121 **EXACERBATION OF IDIOPATHIC PAROXYSMAL KINESIGENIC DYSKINESIA IN REMISSION STATE CAUSED BY SECONDARY HYPOPARATHYROIDISM AFTER A THYROIDECTOMY**
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- 123 **HYPERSONNIA IN WILSON'S DISEASE**
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- 124 **INPH: DETERIORATION OF FRONTAL LOBE FUNCTION**
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- 125 **EFFECTIVE TREATMENT OF CATATONIA IN DRUG INDUCED PARKINSONISM BY ZOLPIDEM**
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- 126 **MESENCHYMAL STEM CELL TRANSPLANTATION AMELIORATE MOTOR AND COGNITIVE DYSFUNCTION IN A TOXIC MODEL OF CEREBELLAR DEGENERATION**
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- 127 **DOPAMINERGIC ANTAGONISTS INDUCED MOVEMENT DISORDERS: AN APPRAISAL OF INDIAN DATA**
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- 129 **METRIFONATE (TRICHLORFON), AN INHIBITOR OF ACETYLCHOLINESTERASE, IS IMPLICATED IN CEREBRAL CORTEX OXIDATIVE STRESS MODULATION**
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- 130 **EVALUATION OF MOTOR DYSFUNCTION IN SPINOCEREBELLAR DEGENERATION BY ANALYSIS OF SPIRAL DRAWING AND TAPPING TEST**
N. Ueda, Y. Hakii, Y. Suzuki, Y. Kuroiwa, *Japan*

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- 131 **MULTIFUNCTIONAL, BIOCOMPATIBLE NUCLEOTIDE ANALOGUES FOR THE TREATMENT OF ALZHEIMER'S DISEASE**
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- 132 **QUINONE-TRYPTOPHAN SMALL MOLECULES INHIBITING B-AMYLOID AGGREGATION: FROM THE TEST TUBE THROUGH FLIES TO MICE**
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- 133 **THE EFFECTS OF GRAPE SEED AND GRAPE POMACE EXTRACTS ON SPATIAL MEMORY IMPAIRMENT INDUCED BY HYOSCINE IN MICE**
A. Jamshidzadeh, B.F. Baha-al-dini Baigi, M. Aram, *Iran*

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- 134 **IDENTIFICATION OF NATURAL POLYPHENOLS AND PLANT EXTRACTS AS POTENT INHIBITORS OF LIPID MEMBRANE DESTABILISATION BY AMYLOID-BETA(1-42)**
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- 135 **INVESTIGATION OF NEUROPROTECTION AND IN VITRO ANTIOXIDANT ACTIVITIES OF *SALVIAMIRZAYANII***
P. Fathi Rezaei, F. Shaerzadeh, A. Ahmadiani, M.A. Esmaeili, A. Sonboli, S. Asadi, N. Ansari, F. Khodagholi, *Iran*
- 136 **ALGINATE PROTECTS DIFFERENTIATION PC12 CELLS AGAINST APOPTOSIS VIA CASPASE-DEPENDENT MANNER**
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- 137 **EFFECT OF HYBRID ANTIOXIDANT FROM ICHFAN'S GROUP ON THE KINETIC PARAMETERS OF CHOLINESTERASES**
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- 138 **7-MEOTA - CHOLINESTERASE INHIBITOR WITH VALUABLE PHARMACOLOGICAL PROFILE**
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- 139 **HPLC STUDY OF BLOOD-BRAIN BARRIER PENETRATION OF TWO ACETYLCHOLINESTERASE INHIBITORS - TACRINE AND 7-MEOTA AFTER ORAL ADMINISTRATION IN RATS**
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- 140 **DONEPEZIL-BASED HETERODIMERS AS INHIBITORS OF BETA-AMYLOID AGGREGATION AND FORMATION**
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- 141 **HUPRINES AS ACTIVE-SITE INTERACTING UNITS FOR DUAL BINDING SITE ACETYLCHOLINESTERASE INHIBITORS**
C. Galdeano, A. Bidon-Chanal, E. Viayna, P. Camps, D. Muñoz-Torrero, F.J. Luque, *Spain*

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- 142 **A PROTOCOL TO SCREEN LRRK2 KINASE INHIBITORS**
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- 143 **NEW MULTIPOTENT DUAL INHIBITORS OF MAO AND ACHE/BUCHE AS PROMISING MOLECULES FOR THE TREATMENT OF ALZHEIMER'S DISEASE**
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- 144 **PHARMACOLOGICAL EVALUATION OF NEW ANTICHOLINESTERASIC DRUGS HUPRINE-TACRINE HETERODIMERS WITH DUAL ACTION ON CATALYTIC AND PERIPHERAL SITE OF ACETYLCHOLINESTERASE**
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- 145 **SYNTHESIS AND IN VITRO EVALUATION OF N-ALKYL-7-METHOXYTACRINE HYDROCHLORIDES AS POTENTIAL ANTI-ALZHEIMER'S DISEASE AGENTS**
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- 147 **NEURO-PROTECTIVE ROLE OF ESTRADIOL IN AGING FEMALE RATS**
P. Kumar, R.K. Kale, N.Z. Baquer, *India*
- 148 **PRESENILIN 1 (PS1) SELECTIVE GAMMA-SECRETASE INHIBITORS; EFFICACY AND TOLERABILITY IN PS2 DEFICIENT AND WILD TYPE MICE**
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- 149 **DESIGN OF DUAL GAMMA-SECRETASE/ PPARGAMMA MODULATORS AS POTENTIAL THERAPEUTICS FOR THE TREATMENT OF ALZHEIMERS DISEASE**
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- 150 **DEVELOPMENT OF SELECTIVE GAMMA-SECRETASE MODULATORS FOR THE POTENTIAL TREATMENT OF AD**
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- 151 **BMS-708163, A NOTCH-SPARING GSI, DECREASES CENTRAL ABETA IN RATS, DOGS, AND HUMANS WITH A THERAPEUTIC MARGIN RELATIVE TO NOTCH TOXICITY**
J. Meredith, C.F. Albright, R. Dockens, R.E. Olson, R. Slemmon, K.A. Lentz, J.-S. Wang, R. Denton, G. Pilcher, R. Zaczek, J.E. Macor, J. Houston, O. Wong, H. Gu, R. Berman, G. Tong, *USA*
- 152 **GAMMA-SECRETASE MODULATOR GSM-1 DIRECTLY TARGETS THE N-TERMINAL FRAGMENT OF PRESENILIN 1**
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- 153 **CHARACTERIZATION OF NOVEL NOTCH SPARING ABETA42 LOWERING GAMMA SECRETASE MODULATORS**
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- 154 **THE SULFONAMIDE INHIBITOR MRK-560 DISPLAYS A PREFERENCE FOR PS1 MEDIATED PROCESSING OF BOTH APP AND NOTCH IN VITRO**
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- 155 **REDUCTION OF BETA AMYLOID PRODUCTION *IN VITRO* AND *IN VIVO* BY NOVEL SMALL MOLECULE BACE1 INHIBITORS**
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- 156 **INHIBITORS OF BACE1 REDUCE BETA AMYLOID PRODUCTION IN GUINEA PIGS: DOSE-DEPENDENT EFFECTS IN CEREBROSPINAL FLUID AND BRAIN**
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- 157 **BACE1 INHIBITORS FOR THE TREATMENT OF ALZHEIMER'S DISEASE**
J. Fältling, S. Gustavsson, B. Georgievska, J. Janson, J. Neelissen, F. Jeppsson, S. Karlström, F. Rahm, S. von Berg, B.-M. Swahn, P. Söderman, S. Eketjäll, *Sweden*
- 158 **THERAPEUTIC POTENTIAL AND ANTI-AMYLOIDOSIS MECHANISM OF TERT-BUTYLHYDROQUINONE FOR ALZHEIMER'S DISEASE**
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- 159 **AMYLOID-BETA SPECIFIC ANTIBODY RESPONSE AFTER LONG-TERM ADMINISTRATION OF ACTIVE IMMUNOTHERAPY CAD106 IN ALZHEIMER PATIENTS**
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- 160 **CASE REPORT FROM THE BAPINEUZUMAB PASSIVE IMMUNOTHERAPY CLINICAL TRIAL ON A PATIENT THAT DEVELOPED VASOGENIC EDEMA**
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- 161 **ANTI-ADDL ANTIBODIES ACT IN THE BRAIN TO SEQUESTER ADDLS AND ATTENUATE THEIR DEPOSITION INTO GROWING PLAQUES IN A MOUSE MODEL OF ALZHEIMER'S DISEASE**
P. Shughrue, R. Gaspar, W.-Q. Zhao, P. McQuade, L. Huang, A. Wolfe, F. Wang, J. Renger, *USA*
- 162 **DEVELOPING COMPOUNDS FOR NONINVASIVE DELIVERY OF SMALL INTERFERING RNA TO SILENCE ALPHA-SYNUCLEIN GENE AS A POTENTIAL THERAPEUTIC STRATEGY FOR PARKINSON'S DISEASE**
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- 163 **AMYLOID-B OLIGOMER SPECIFICITY MEDIATED BY THE IGM ISOTYPE - IMPLICATIONS FOR A SPECIFIC PROTECTIVE MECHANISM EXERTED BY ENDOGENOUS AUTO-ANTIBODIES**
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- 164 **A NOVEL STRATEGY FOR GENERATION OF EFFECTIVE AND SAFE ALZHEIMER'S DISEASE VACCINE BASED ON CONVENTIONAL INFLUENZA VIRUS VACCINE MODIFIED TO EXPRESS AB₁₋₁₀**
H. Davtyan, A. Ghochikyan, N. Movsesyan, I. Petrushina, R. Cadagan, D. Zamarin, L. Martinez-Sobrido, R.A. Albrecht, A. Garcia-Sastre, M.G. Agadjanyan, *USA*

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M. Valentí Soler, P. Martínez-Martín, I. Casanova Peño, F. Martín Rico, J.M. Cañas Plaza, S. García Bailador, C. Pérez Muñano, A. Casarrubio Ramírez, E. Osa Ruiz, E. Ortega Rojo, Multidisciplinary Support Unit, *Spain*
- 166 **PHYTOSTEROLS IN THE AGING RAT BRAIN: INFLUENCE OF DIETARY RESTRICTION**
A. Mladenovic Djordjevic, K. Smiljanic, T. Vanmierlo, D. Lutjohann, S. Ruzdijic, S. Kanazir, *Serbia, Germany*
- 167 **ENVIRONMENTAL ENRICHMENT AS A KEY MODULATOR OF BRAIN PLASTICITY IN ALZHEIMER'S DISEASE**
O. Lazarov, Y.-S. Hu, G. Pigino, S.T. Brady, J. Larson, *USA*
- 168 **THE VIEWS ON 'BRAIN TRAINING' OF HEALTHCARE PERSONNEL WITH A SPECIAL INTEREST IN DEMENTIA**
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- 169 **NGF TREATMENT IN ALZHEIMER'S DISEASE: EFFECTS ON BRAIN STRUCTURES**
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- 170 **EFFECT OF HYPOXIC PRECONDITIONING ON COGNITION AND BRAIN GLUCOSE/ ENERGY METABOLISM IN AN ANIMAL MODEL OF SPORADIC ALZHEIMER'S DISEASE**
S.C. Correia, G. Casadesus, J.C. Lamanna, P.I. Moreira, M.A. Smith, *Portugal, USA*
- 171 **ANDROGEN INTERVENTION THERAPY IN A PATIENT WITH FAMILIAL ALZHEIMER'S DISEASE**
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- 172 **USE OF THE PHYSIOTHERAPY IN THE TREATMENT OF INITIAL STAGES OF PARKINSON'S DISEASE**
O. Tondiy, O. Zavalna, *Ukraine*
- 173 **INFLUENCE OF PHYSICAL ACTIVITY ON COGNITIVE DYSFUNCTION IN PATIENTS WITH MILD AND MODERATE ALZHEIMER DEMENTIA**
A. Potemkowski, J. Kolenda, A. Ratajczak, M. Ratajczak, *Poland*

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- 174 **PHYSICAL REHABILITATION MAY AFFECT DEPRESSION IN PARKINSON DISEASE PATIENTS**
M. Alvarez, P. Grogan, M. Rodriguez, *USA*
- 175 **A NON-INVASIVE PHOTOBIOMODULATION THERAPY FOR ALZHEIMER'S DISEASE**
L.C. Costantini, D. Shine, K. Ball, P. Castello, N. Pan, P. Tucker, B. Milgram, M. Stowell, R. Poyton, *USA, Canada*
- 176 **MULTI-NUTRIENT APPROACH IN ALZHEIMER'S DISEASE: RATIONALE FOR COMBINED BENEFICIAL EFFECTS OF NUTRIENTS IN DISEASE MANAGEMENT**
P.J. Kamphuis, R.J. Hageman, L.M. Broersen, M. Groenendijk, *The Netherlands*
- 177 **MEASURING THE CREATIVE EXPRESSIVE ABILITIES OF PEOPLE WITH DEMENTIA**
P. Graf, D. Gottlieb-Tanaka, *Canada*
- 178 **REVIEW OF CREATIVE EXPRESSION PROGRAMS FOR PEOPLE WITH DEMENTIA**
D. Gottlieb-Tanaka, P. Graf, *Canada*
- 179 **THE NATURE OF ACTIVITY PROGRAMS IN ADULT CARE FACILITIES**
P. Graf, D. Gottlieb-Tanaka, N.R. Whittle, *Canada*
- 180 **THE EFFECTS OF A MUSIC ACCOMPANIED WALKING PROGRAM ON GAIT PERFORMANCE IN PEOPLE WITH PARKINSON'S DISEASE**
N. de Bruin, J. Doan, G. Turnbull, S. Bonfield, O. Suchowersky, B. Hu, L. Brown, *Canada*
- 181 **CORRECTING DYSLIPIDEMIA MAY BE A VALUABLE APPROACH TO PREVENT COGNITIVE DECLINE AND ALZHEIMER'S DISEASE**
A. Allouche, L. Royer, I. Youssef, S. Akbar, M.-C. Escanyé, V. Koziel, C. Malaplate-Armand, J.L. Olivier, F.T. Yen Potin, A. Dhaussy, S. Breton, A. Huertas, T. Pillot, T. Oster, *France*
- 182 **ZUCKERKANDL'S ORGAN IMPROVES LONG-TERM SURVIVAL AND FUNCTION OF NEURAL STEM CELL DERIVED DOPAMINERGIC NEURONS IN PARKINSONIAN RATS**
R.K. Chaturvedi, *India*
- 183 **EFFECT OF PHYSICAL EXERCISE ON VISUOSPATIAL MEMORY IN OLDER PEOPLE WITH PARKINSON'S DISEASE**
K. Tanaka, R.F. Santos-Galduróz, F. Stella, L.T.B. Gobbi, S. Gobbi, *Brazil*
- 184 **RELIEF OF PARKINSON DISEASE BY OLPHACTORY EPITHELIAL STEM CELLS**
M. Safari, L. Ghahari, *Iran*

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- 185 **FOOD RESTRICTION ALTERS INFLAMMATION AND APOPTOSIS DURING MULTIPLE CORTICAL INJURIES**
S. Ruzdijic, N. Loncarevic-Vasiljkovic, V. Pesic, J. Popic, S. Pracer, D. Milanovic, A. Mladenovic Djordjevic, L. Rakic, S. Kanazir, *Serbia*
- 186 **TWEAKING BRAIN GANGLIOSIDE DISTRIBUTION TO PREVENT NEURODEGENERATION, PROTEIN AGGREGATION, AND BEHAVIORAL IMPAIRMENTS IN MODELS OF ALZHEIMER'S AND PARKINSON'S DISEASES**
M.P. McDonald, A. Dhanushkodi, E. Akano, L.C. Gregg, E.E. Roguski, Y. Ding, S.G. Matta, T.S. Rex, G.-H. Fan, *USA*
- 187 **THE EFFECTS OF DIETARY RESTRICTION ON EXPRESSION PATTERN OF PROTEINS INVOLVED IN CHOLESTEROL METABOLISM IN THE BRAIN DURING AGING**
K. Smiljanic, A. Mladenovic Djordjevic, L. Rakic, S. Ruzdijic, S. Kanazir, *Serbia*
- 188 **COMBINED DIETARY VITAMINS B₆, B₁₂, AND FOLATE INCREASE PLASMA CHOLINE LEVELS IN RATS**
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- 189 **THE NEUROPEPTIDE PACAP SLOWS DOWN ALZHEIMER'S DISEASE-LIKE PATHOLOGY IN APP-TRANSGENIC MICE**
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- 190 **A MEDICAL FOOD SOUVENAIID® FOR AD PATIENTS CAN BE USED SAFELY IN COMBINATION WITH AN ACETYLCHOLINESTERASE INHIBITOR IN AN AGED RAT MODEL**
M.C. de Wilde, N. van Wijk, A.A. Kuipers, L.M. Broersen, P.J. Kamphuis, J.A. Garthoff, G.J. Speijers, *The Netherlands*
- 191 **ENHANCED MUSCARINIC RECEPTOR RESPONSES *IN VITRO* AFTER MULTI-NUTRIENT SUPPLEMENTATION**
P.J. Savelkoul, M.M. Merkes, H. Janiekova, A.A. Kuipers, R.J. Hageman, L.M. Broersen, V. Dolezal, P.J. Kamphuis, *The Netherlands, Czech Republic*
- 192 **PHYSIOLOGICAL AND BIOCHEMICAL EFFECTS OF 17B ESTRADIOL IN AGING FEMALE RAT BRAIN**
P. Kumar, R.K. Kale, N.Z. Baquer, *India*
- 193 **HINDERING OF PROTEINOPATHY-INDUCED NEURODEGENERATION AS A NEW MECHANISM OF ACTION FOR DIMEBON**
N. Ninkina, A. Ustyugov, T. Shelkovnikova, I. Khritankova, S. Bachurin, *Russia, UK*

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- 194 **SPECIFIC NUTRIENTS TO INCREASE AVAILABILITY OF COMPONENTS INVOLVED IN NEURONAL MEMBRANE SYNTHESIS**
N. van Wijk, R.J.J. Hageman, P.J. Kamphuis, L.M. Broersen, *The Netherlands*
- 195 **MEDICAL NUTRITION IN ALZHEIMER'S DISEASE: BASELINE CHARACTERISTICS OF 3 SOUVENAIID® CLINICAL TRIALS**
P. Scheltens, P.J.G.H. Kamphuis, *The Netherlands*
- 196 **THE EFFECT OF A CHOLESTEROL ENHANCED DIET ON SPATIAL MEMORY AND LEARNING IN APOE4 AND APOE KO MICE**
C.I.F. Janssen, D. Jansen, C. Capone, M. Mulder, A.J. Kiliaan, *The Netherlands*

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- 197 **REDUCED CSF TURNOVER IS RELATED TO DECREASED LEVELS OF VENTRICULAR AB42**
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- 198 **CEREBRAL AND EXTRACEREBRAL CHOLESTEROL METABOLISM AND CSF MARKERS FOR ALZHEIMER'S DISEASE**
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- 199 **INVESTIGATION OF NEW AD PLASMA BIOMARKER AND ITS POSSIBILITY**
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- 201 **A SYSTEMATIC ANALYSIS OF MULTIPLE AB PATHOLOGIES IN ALZHEIMER'S DISEASE**
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- 203 **CSF BIOMARKERS AND CLINICAL CORRELATES IN SPORADIC EARLY ONSET ALZHEIMER DISEASE (EOAD)**
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- 205 **KYNURENIC ACID IN THE CEREBROSPINAL FLUID OF PATIENTS WITH ALZHEIMERS DISEASE**
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- 206 **OXIDIZED PROTEINS IN THE CEREBROSPINAL FLUID AS PUTATIVE BIOMARKERS FOR ALZHEIMER'S DISEASE**
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- 207 **AMYLOID-BETA OLIGOMER DETECTION IN HUMAN CSF**
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- 208 **SERUM ANTI-CYTOSKELETAL PROTEINS IN ALZHEIMER DISEASE AND NORMAL ELDERLY**
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- 210 **SERUM LEVELS OF BETA-AMYLOID-PEPTIDES IN PATIENTS WITH ALZHEIMER'S DISEASE (AD), MILD COGNITIVE IMPAIRMENT (MCI) AND HEALTHY ELDERLY SUBJECTS**
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- 211 **USE OF BIOMARKERS TO IDENTIFY PRODROMAL ALZHEIMER'S DISEASE: THE ROLE OF COGNITIVE FUNCTION ASSESSMENT**
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- 212 **EFFECT OF PRE-ANALYTICAL FACTORS ON AD BIOMARKER LEVELS IN CSF**
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- 214 **CEREBROSPINAL FLUID BIOMARKERS IN MUTATION CARRIERS WITH PRECLINICAL FAMILIAL ALZHEIMER DISEASE: COMPARISON WITH HEALTHY FAMILY MEMBERS**
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- 216 **THE CSF LEVELS OF CCL-2 (MCP-1) ARE ASSOCIATED WITH A FASTER COGNITIVE DECLINE IN PRODROMAL ALZHEIMER'S DISEASE**
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- 218 **INTEREST OF CSF AMYLOID BIOMARKERS TO DIFFERENTIATE FRONTOTEMPORAL DEMENTIA FROM ALZHEIMER DISEASE**
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- 219 **A NEW DIAGNOSTIC BIOSENSOR FOR THE SPECIFIC AND CONFORMATION-SENSITIVE DETECTION OF THE AB PEPTIDE IN ALZHEIMER'S DISEASE**
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- 224 **TELOMERE LENGTH IN WHITE BLOOD CELLS, BUCCAL CELLS AND BRAIN TISSUE AND IT'S VARIATION IN AGEING AND ALZHEIMER'S DISEASE**
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- 225 **ANALYSIS OF PLATELET MEMBRANE BETA-SECRETASE ACTIVITY AS A POTENTIAL BIOMARKER FOR THE DIAGNOSIS OF ALZHEIMER'S DISEASE**
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- 227 **CEREBROSPINAL FLUID BIOMARKERS IN RELATION TO PROGRESSION OF WHITE MATTER LESIONS OVER THREE YEARS - LONGITUDINAL RESULTS FROM THE LADIS STUDY**
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- 228 **PHARMACOLOGICAL CHARACTERIZATION AND DEVELOPMENT OF THE AMYLOID PET TRACER [¹⁸F]MK-3328**
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- 230 **GGA3 IS A POTENTIAL CSF MARKER OF ALZHEIMER'S DISEASE**
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- 231 **SALINE-EXTRACTABLE AB OF BRAIN HOMOGENATES IS NOT THE INDICATOR OF THE SOLUBLE AB SPECIES IN THE LIVING BRAIN**
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- 232 **IMMUNOPRECIPITATION OF PEPTIDE FRAGMENTS COMMON TO ALL TAU PROTEIN ISOFORMS USING PHOSPHO-INSENSITIVE MAGNETIC IMMUNOSORBENTS FOR DIAGNOSIS OF ALZHEIMER'S DISEASE**
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- 233 **FROM SPECIMEN TO BIOMARKER? HARMONISATION OF BIOBANK SOP'S IN THE DISCOVERY OF NOVEL CANDIDATE BIOMARKERS FOR ALZHEIMER'S DISEASE (AD)**
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- 234 **BUCCAL MICRONUCLEUS CYTOME ASSAY BIOMARKERS MAY BE ASSOCIATED WITH ALZHEIMER'S DISEASE**
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- 235 **PREANALYTICAL HANDLING AND STABILITY TESTING FOR THE NEUROCHEMICAL DEMENTIA DIAGNOSTICS QUALITY CONTROL**
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- 236 **INCREASE OF AB PEPTIDE SECRETION OF HUMAN MONOCYTES DURING MATURATION**
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- 237 **INHIBITORY CONTROL OF SACCADIC EYE MOVEMENTS AS A POTENTIAL DIAGNOSTIC MARKER FOR ALZHEIMER'S DISEASE**
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- 238 **PERIPHERAL OXIDATIVE STRESS IN PATIENT WITH ALZHEIMER DISEASE MAY BE USED AS A CLINICAL BIOMARKER INDICATIVE OF SEVERITY DEGREE OF DISEASE**
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- 241 **THE LONGITUDINAL CHANGES OF CSF BIOMARKERS IN ALZHEIMER'S DISEASE - CSF HYPERPHOSPHORYLATED TAU DECREASES IN CONNECTION WITH COGNITIVE DECLINE DURING THE AD PROCESS**
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- 243 **MARKERS OF AN INFLAMMATION IN THE SERUM OF BLOOD OF ELDERLY PATIENTS WITH DEMENTIA**
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- 244 **14-3-3 ISOFORMS AND PHOSPHORYLATION-DEPENDENT INTERACTION WITH LIPID RAFT PROTEINS INVOLVED IN NEURODEGENERATIVE DISORDERS**
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- 247 **BETA-AMYLOID IMPAIRS AMPAR TRAFFICKING BY AFFECTING GLUR1 SERINE 845 PHOSPHORYLATION**
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- 248 **NOVEL APP PROTEASES PRODUCING N-TERMINALLY-TRUNCATED AB₃₋₄₀ AND AB₆₋₄₀ PEPTIDES**
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- 250 **EPIDERMAL MOLECULAR CHANGES IN ALZHEIMER'S DISEASE PATIENTS**
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- 251 **NOVEL BIOMARKER ASSAY FOR AMYLOID-B PROTOFIBRILS THAT AVOIDS INTERFERENCE BY TREATMENT ANTIBODY**
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- 252 **BLOOD TRANSCRIPTOMIC SIGNATURES OF AD PATIENTS TREATED WITH EHT 0202: IDENTIFICATION OF NOVEL POTENTIAL BIOMARKERS CORRELATED WITH TREATMENT RESPONSE AND EFFICACY**
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- 254 **CSF ANALYSIS OF PROGRESSIVE SUPRANUCLEAR PALSY: NO INDICATION FOR THE PRESENCE OF SPECIFIC TAU FORMS**
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- 255 **PLASMA TDP-43 LEVEL AS PUTATIVE BIOMARKER FOR INCLUSION BODY MYOSITIS AND AMYOTROPHIC LATERAL SCLEROSIS**
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- 256 **A COMBINED ACID PRE-TREATMENT AND NEUTRALIZATION PROTOCOL IMPROVES CSF GLUTAMINE SYNTHETASE DETECTION BY ELISA**
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- 257 **PARKINSON'S DISEASE BIOMARKER DEVELOPMENT: IMMUNOPRECIPITATION LC-MS/MS TO QUANTITATIVELY DETECT PHOSPHORYLATED ALPHA-SYNUCLEIN IN HUMAN CSF**
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- 258 **BLOOD-BASED GENE EXPRESSION PROFILE FOR PARKINSON'S DISEASE**
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- 259 **POSTERIOR CORTICAL ATROPHY (PCA): CLINICAL ASSESSMENT AND CEREBROSPINAL FLUID BIOMARKERS (CSF)**
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- 260 **UNCOVERING CANDIDATE BIOMARKERS FOR ALZHEIMER'S AND PARKINSON'S DISEASES WITH REGULARIZATION METHODS AND PRIOR KNOWLEDGE**
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- 261 **BRAIN-SPECIFIC FATTY ACID-BINDING PROTEIN IS ELEVATED IN SERUM OF PATIENTS WITH DEMENTIA-RELATED DISEASES**
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- 262 **THE CNEUPRO CONSORTIUM: NOVEL BIOMARKERS FOR NEURODEGENERATION USING LABEL-FREE PROTEOMICS**
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- 263 **MULTIMODAL INDIVIDUAL ANALYSES IN TWO CASES WITH MILD COGNITIVE IMPAIRMENT ILLUSTRATING THE COMPLEMENTARITY OF DIFFERENT NEUROIMAGING TECHNIQUES**
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- 264 **CEREBROSPINAL FLUID BIOMARKERS FOR DIFFERENTIAL DIAGNOSIS OF PARKINSONISMS WITH DEMENTIA**
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- 265 **PHOSPO-PKCS IN AB1-42-ACTIVATED T CELLS DISCRIMINATE ALZHEIMER'S DISEASE FROM LEWY BODY DEMENTIA**
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- 266 **DEVELOPMENT OF A TIME-RESOLVED FRET IMMUNOASSAY FOR A-SYNUCLEIN QUANTIFICATION SUITABLE FOR CLINICAL SAMPLE ANALYSIS AND TRANSLATIONAL RESEARCH**
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- 267 **SENSITIVE QUANTIFICATION OF ALPHA-SYNUCLEIN IN HUMAN BIOLOGICAL FLUIDS BASED ON CHEMILUMINESCENCE DETECTION**
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- 269 **ANALYSIS OF PYROGLUTAMATE-MODIFIED AMYLOID PEPTIDES IN FAMILIAL BRITISH AND FAMILIAL DANISH DEMENTIA**
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- 272 **DISTINCT SYMPTOMS OF DELIRIUM'S SIGNIFICANCE TO THE MORTALITY OF PATIENTS DURING TREATMENT**
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- 273 **TELPi PERFORMANCE IN COGNITIVE IMPAIRMENT SUBJECTS: A VALIDATION STUDY**
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- 274 **NEW DIAGNOSTIC MODEL FOR THE EARLY DIAGNOSIS OF ALZHEIMER'S DISEASE AND OTHER DEMENTIAS, BASED ON LOGIC MINING OF CLINICAL VARIABLES**
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- 275 **CERAD TOTAL SCORE IS SENSITIVE TO CORTICAL THICKNESS SIGNATURE IN MILD COGNITIVE IMPAIRMENT AND ALZHEIMER'S DISEASE**
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- 277 **DIAGNOSTIC WORK-UP IN CLINICAL REALITY. DATA FROM SVEDEM, THE SWEDISH DEMENTIA REGISTRY**
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M. Eriksdotter-Jönhagen, *Sweden, Poland*
- 278 **DECREASED LEARNING AND RECALL OF PRIMACY WORDS AS PREDICTORS OF DECLINE IN HEALTHY INDIVIDUALS**
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- 279 **THE UTILITY OF 'THE PRELIMINARY NEUROPSYCHOLOGICAL BATTERY', AS A GLOBAL COGNITIVE SCREENING INSTRUMENT, IN STROKE SURVIVORS WITH APHASIA**
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- 280 **POSTURAL SWAY PARAMETERS IN SUBJECTS AT HIGH RISK FOR PARKINSON'S DISEASE**
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- 281 **COGNITIVE ASSESSMENT OF ADULTS WITH DOWN SYNDROME**
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- 282 **AUTOMATED LEVODOPA-INDUCED DYSKINESIA ASSESSMENT UNDER REAL-LIFE CONDITIONS**
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- 286 **CHOLESTEROL METABOLISM IN THE AGING BRAIN-INFLUENCE OF DIETARY RESTRICTION**
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- 289 **APOE PROMOTES AB TRAFFICKING AND DEGRADATION BY MODULATING MICROGLIAL CHOLESTEROL LEVELS**
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- 290 **GENETIC VARIATION IN APOE AND NEIGHBOURING GENES IN MILD COGNITIVE IMPAIRMENT AND ALZHEIMER'S DISEASE**
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- 293 **APOE LOCUS HAPLOTYPES MODULATE EXPRESSION**
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- 307 **INNO-LIPA ND-TAGS: A NEW TOOL FOR SPECIFIC DETECTION OF SNPS ASSOCIATED WITH AD OR PD**
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- 308 **COMMUNICOME PROTEINS IN CSF AND PLASMA THAT MODEL CSF BIOMARKERS FOR ALZHEIMER'S DISEASE CAN CLASSIFY DISEASE**
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- 309 **GENETIC ASSOCIATION OF CR1 POLYMORPHISM RS3818361 IN ALZHEIMER'S DISEASE**
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- 310 **A POST MORTEM HISTOCHEMICAL STUDY OF ALZHEIMER PATIENTS WITH AND WITHOUT DIABETES TYPE II**
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- 312 **THE EFFECTS OF APOE GENOTYPE ON KAINIC ACID INDUCED NEUROPATHOLOGY**
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- 316 **STUDY OF GENETIC VARIABILITY IN A NOVEL PARKINSON DISEASE GENE: EIF4G1**
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- 317 **COMPARISON OF DNA DAMAGES IN PERIPHERAL BLOOD LEUKOCYTES IN ELDERLY HEALTHY AND ALZHEIMER DISEASESUBJECTS**
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- 320 **INDUCTION OF GENES NESTED WITHIN DISEASE-LINKED GENES MAY CAUSE NEURODEGENERATIVE DISEASES AND PROVIDE NEW APPROACHES FOR STUDYING THE DISEASES**
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- 321 **ALZHEIMER'S DISEASE VARIANTS: THE PATHOLOGIC AND DEMOGRAPHIC DISTINCTION BETWEEN HIPPOCAMPAL SPARING AND LIMBIC PREDOMINANT PATHOLOGY**
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- 323 **LRRK2 MUTATIONS IN PARKINSON DISEASE - A PORTUGUESE STUDY**
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- 325 **COMPLEMENT REGULATOR FACTOR H (FH) LEVELS IN CSF OF MCI CASES DEPEND ON THE Y402H POLYMORPHISM**
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- 326 **THE GENETIC BASIS OF NEUROPSYCHIATRIC SYMPTOMS IN PARKINSON'S DISEASE**
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- 328 **GENETIC SCREENING OF THE GLUCOCEREBROSIDASE GENE IN SPANISH PARKINSON'S DISEASE PATIENTS REVEALS NOVEL MUTATIONS AND STRENGTHENS ITS ROLE IN LEWY BODY DISORDERS**
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- 329 **EPIGENETIC MODULATION OF ADENOSINE A_{2A} RECEPTOR: A PUTATIVE THERAPEUTICAL TOOL FOR PARKINSON'S DISEASE TREATMENT**
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- 330 **MUTATIONS IN THE PARKIN GENE ARE A MINOR CAUSE OF PARKINSON'S DISEASE IN THE SOUTH AFRICAN POPULATION**
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- 333 **INVESTIGATION OF TRANSCRIPTIONAL REQUIREMENTS FOR EXPRESSION OF PARKINSON'S-LINKED PARKIN GENE**
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- 334 **CYSTEINE 27 VARIANT OF THE Δ -OPIOID RECEPTOR AFFECTS AMYLOID PRECURSOR PROTEIN PROCESSING THROUGH ALTERED ENDOCYTIC TRAFFICKING**
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- 335 **DEMENTIA WITH LEWY BODIES: A ROLE FOR MUTATIONS IN DEMENTIA AND PARKINSON'S DISEASE GENES?**
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- 336 **ANTICIPATION IN E200K CREUTZFELDT-JAKOB DISEASE PATIENTS OF THE CALABRIAN CLUSTER: AN OBSERVATIONAL STUDY**
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- 337 **MAO-A, COMT, NET GENE POLYMORPHISMS AND THE LEVELS OF CATECHOLAMINES AND THEIR METABOLITES IN PATIENTS WITH PARKINSON'S DISEASE**
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- 339 **GENETIC DISSECTION OF PARKINSON'S DISEASE AS A BASIS FOR NOVEL TREATMENTS**
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- 340 **MUTATIONS AT THE NOTCH3 GENE IN THE NORMAL ELDERLY ARE ASSOCIATED WITH CEREBRAL SMALL VESSEL DISEASE**
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- 341 **SNCA POLYMORPHISMS IN NORTHERN SPANISH POPULATION: LOOKING FOR RISK HAPLOTYPES**
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- 343 **PREVALENCE OF LRRK2 MUTATIONS IN A POPULATION STUDY IN TWO SELECTED RURAL BASQUE VILLAGES (SPAIN)**
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- 345 **GENOME-WIDE LINKAGE AND ASSOCIATION ANALYSES IN NONDEMENTED HYPERTENSIVE INDIVIDUALS SUGGEST ASSOCIATION OF PSEN2 WITH PLASMA AMYLOID BETA**
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- 346 **GLUCOCEREBROSIDASE GENE MUTATIONS AND PARKINSON'S DISEASE IN ARAGON (SPAIN)**
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- 349 **UTILIZATION OF ANTICHOLINERGIC AND SEDATIVE MEDICINES AMONGST AUSTRALIAN VETERANS WITH DEMENTIA**
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- 350 **FRAILITY CRITERIA AND COGNITIVE PERFORMANCE ARE RELATED: DATA FROM THE FIBRA STUDY IN ERMELINO MATARAZZO, SÃO PAULO, BRAZIL**
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- 351 **PREVALENCE AND CORRELATES OF THE FRAILITY SYNDROME, DIAGNOSED ACCORDING TO THE SOF CRITERIA, IN OLDER OUTPATIENTS SUFFERING FROM ALZHEIMER'S DISEASE IN ITALY**
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- 353 **INVOLVEMENT OF THE VEGF SYSTEM IN MEDIATING THE PATHOLOGICAL EFFECTS OF APOE4 IN TARGETED REPLACEMENT MICE**
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- 354 **HOMOCYSTEINE, HOLO-TRANSCOBALAMIN AND COGNITION IN THE ELDERLY: A LONGITUDINAL POPULATION-BASED STUDY**
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- 355 **APOE4 INDUCES SYNAPTIC DEFICITS IN YOUNG MICE**
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- 356 **THE EFFECTS OF CHOLESTEROL AND FISH OIL DIETS ON APOE4 MICE FOLLOWING ENVIRONMENTAL ENRICHMENT**
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- 357 **BMI, MMSE, APOE AND MORTALITY AT AGE 70 YEARS AND OLDER: THE TREVISO LONGEVA (TRELONG) STUDY**
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- 359 **THE PATHOLOGICAL EFFECTS OF APOE4 FOLLOWING ACTIVATION OF THE AMYLOID CASCADE ARE ASSOCIATED WITH FORMATION OF ANNULAR PROTOFIBRILAR AB OLIGOMERS**
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- 362 **RISK FACTORS OF COGNITIVE IMPAIRMENT AMONG THE ELDERLY IN TAIWAN**
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- 363 **PREVALENCE OF DEMENTIA IS NOT ASSOCIATED WITH EDUCATION IN A BULGARIAN POPULATION**
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- 364 **PREDICTING THE EARLY SEPARATION OF AD AND VAD USING DIAGNOSTIC DATA FROM THE AGING, DEMOGRAPHICS AND MEMORY STUDY (ADAMS) AND RISK FACTORS FROM PREVIOUS DECADES FROM THE NATIONALLY REPRESENTATIVE HEALTH AND RETIREMENT STUDY (HRS)**
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- 365 **IMPACT OF DEMENTIA ON MORTALITY: RELATIVE RISK AND POPULATION ATTRIBUTABLE RISK (PAR%) OF DEATH IN A COMMUNITY-BASED STUDY**
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- 366 **DECISION MAKING, COGNITIVE FUNCTIONING AND METABOLIC RISK FACTORS IN CORONARY HEART DISEASE AND DEPRESSION**
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- 367 **TRANSMISSION OF SPORADIC CREUTZFELDT-JAKOB BY BLOOD TRANSFUSION: RISK FACTOR OR POSSIBLE BIASES**
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- 368 **COMORBIDITIES ASSOCIATED WITH THYROID PATHOLOGY AND ALZHEIMER DISEASE**
I. Ioancio, L. Spiru, R.I. Trascu, I. Turcu, *Romania*
- 369 **A 37-YEAR FOLLOW-UP OF BODY MASS INDEX AND DEMENTIA. OBESERVATIONS FROM THE PROSPECTIVE POPULATION STUDY OF WOMEN IN GOTHENBURG, SWEDEN**
D. Gustafson, K. Backman, E. Joas, M. Waern, S. Ostling, X. Guo, I. Skoog, *Sweden, USA*
- 370 **ANEMIA AND RISK OF PARKINSON'S DISEASE IN A PROSPECTIVE STUDY AT KAISER PERMANENTE NORTHERN CALIFORNIA (KPNC)**
S.K. Van Den Eeden, J. Shan, C.M. Tanner, K.S. Albers, L.M. Nelson, C.P. Quesenberry, *USA*
- 371 **THE ASSOCIATION OF METABOLIC SYNDROME WITH COGNITIVE IMPAIRMENT INDEPENDENT OF SILENT ISCHEMIC BRAIN LESIONS**
S. Yamaguchi, H. Bokura, A. Nagai, H. Oguro, S. Kobayashi, *Japan*
- 372 **MATERNAL EXPOSURE TO NANOPARTICLES ENHANCES THE RISK OF NEURODEGENERATIVE DISEASES IN OFFSPRING**
M. Sugamata, T. Ihara, M. Sugamata, M. Umezawa, K. Takeda, *Japan*
- 373 **SYNERGISTIC INTERACTION BETWEEN TAU KINASE GENES (*CDK5R1* AND *GSK3B*) IN PARKINSON'S DISEASE PATIENTS OF INDIA**
G. Das, A.K. Misra, S.K. Das, K. Ray, J. Ray, *India*

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- 374 **CELLULAR SIGNALING MECHANISMS REGULATING B-AMYLOID PRODUCTION**
J. Bali, V. Surendranath, S. Zurbruggen, K. Simons, L. Rajendran, *Switzerland, Germany*
- 375 **CELLULAR MECHANISMS UNDERLYING GLUTAMINYL CYCLASE-MEDIATED FORMATION OF PE-AB DEPOSITS IN DISTINCT SUBLAYERS OF HUMAN AND MOUSE HIPPOCAMPUS**
M. Hartlage-Rübsamen, A. Waniek, C. Jäger, U. Zeitschel, B. Koch, H. Cynis, S. Schilling, R. Schliebs, H.-U. Demuth, M. Morawski, S. Roßner, *Germany*
- 376 **ANTI-APOPTOTIC DELTANP63 IS DEGRADED IN A C-JUN-DEPENDENT MANNER IN AMYLOID BETA-INDUCED APOPTOSIS**
M.B. Fonseca, A.F. Nunes, C.M.P. Rodrigues, *Portugal*

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- 377 **EFFECTS OF GDNF AND OVEREXPRESSED BACE ON APP PROCESSING IN LUHMES CELLS AS HUMAN NEURONAL MODEL OF ALZHEIMER'S DISEASE**
D. Scholz, M. Leist, Doerenkamp-Zbinden Chair for in vitro Toxicology and Biomedicine, *Germany*
- 378 **ACTIVATION OF K_{Ca2} CHANNELS PROTECTS HUMAN DOPAMINERGIC CELLS AGAINST ROTENONE TOXICITY *IN VITRO***
A.M. Dolga, A. de Andrade, G. Höglinger, C. Culmsee, *Germany*
- 379 **MECHANISTIC STUDIES ON PARKINSONIAN NEURODEGENERATION IN LUHMES CELLS - A HUMAN *IN VITRO* MODEL**
D. Pörtl, S. Schildknecht, M. Leist, *Germany*
- 380 **A CELLULAR MODEL ADAPTED TO HIGH CONTENT DRUG SCREENING FOR PARKINSON'S DISEASE**
D. Kortazar, M. Roura, R.M. Mella, A. Castilla, I. Badiola, P. Villace, *Spain*
- 381 **DEVELOPMENT OF AN *IN VITRO* MODEL OF HUMAN DOPAMINERGIC NEURONS FROM NEUROBLASTOMA CELL LINES FOR CHARACTERIZATION OF KYNURENINE PATHWAY IN PARKINSON'S DISEASE**
A. Zinger, C. Barcia, M.T. Herrero, G.J. Guillemín, *Australia, Spain*
- 382 **WNT1 AND BMP2: TWO FACTORS RECRUITING MULTIPOTENT NEURAL CREST PROGENITORS ISOLATED FROM ADULT BONE MARROW**
S. Wislet-Gendebien, *Belgium*
- 383 **DEVELOPMENT OF AN *IN VITRO* MODEL OF HUMAN PRIMARY DOPAMINERGIC NEURONS FOR THE CHARACTERIZATION OF THE KYNURENINE PATHWAY**
A. Zinger, G.J. Guillemín, *Australia*
- 384 **PREVENTION OF HYDROGEN PEROXIDE-INDUCED CYTOTOXICITY IN NEURONAL PC12 CELLS BY ESTERS OF HYDROXYCINNAMIC ACIDS**
O. Firuzi, R. Miri, M. Tavakkoli, F. Borges, J. Garrido, L. Saso, *Iran, Portugal, Italy*
- 385 **A INDUCES NEUROTOXICITY BY A PORE-FORMING MECHANISM SIMILAR TO OTHER PORE FORMING PEPTIDES**
L.S. Aguayo Hernandez, J.F. Sepulveda, H. Fierro, J. Fuentealba, C. Opazo, *Chile*
- 386 **THE ROLE OF C-ABL IN THE SYNAPTOTOXICITY CAUSED BY AB OLIGOMERS; INVOLVEMENT OF THE EPHRINE RECEPTOR**
L.M. Vargas Rojas, A. Gonzalez Martin, K.A. Araya, K. Gysling, A. Alvarez Rojas, *Chile*

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- 387 **GROWTH KINETICS OF AMYLOID-BETA PLAQUES IN A MOUSE MODEL OF ALZHEIMER'S DISEASE**
S. Burgold, T. Bittner, D. Kieser, M.M. Dorostkar, G. Mitteregger, H. Kretschmar, B. Schmidt, J. Herms, *Germany*
- 388 **THE NEUROPROTECTIVE IMPACT OF CB1 CANNABINOID RECEPTOR AGONIST IN A RAT MODEL OF ALZHEIMER DISEASE**
M. Janahmadi, M. Haghani, M. Javan, *Iran*
- 389 **MODULATION OF AMYLOID-BETA BURDEN-MEDIATED LEARNING AND MEMORY DEFECTS: ROLE OF *IN VITRO* AND *IN VIVO* ASSEMBLIES**
R. Viana, A. Nunes, A. Lo, M. Fonseca, B. De Strooper, R. D'Hooge, C. Rodrigues, *Portugal, Belgium*
- 390 **THE SIMULTANEOUS KNOCKDOWN OF APP/APLP1/ APLP2 REVEALS PROMINENT CHANGES ON THE CELLULAR PROTEOME - RELEVANCE FOR ALZHEIMER'S DISEASE**
A. Schroetter, C. Loosse, K. Pfeiffer, T. Mueller, K. Marcus, *Germany*
- 391 **TRANSTHYRETIN RESPONDS TO STRESS IN RATS**
A. Martinho, I. Gonçalves, I. Veloso, C.R.A. Santos, *Portugal*
- 392 **EFFECTS OF SHORT-TERM ENVIRONMENTAL ENRICHMENT ON ADULT NEUROGENESIS AND MEMORY IN THE APP^{SW,IND} TRANSGENIC MICE**
A. Parra-Damas, J. Valero, J. España, E. Martín, J. Rodríguez-Álvarez, C.A. Saura, *Spain*
- 393 **A FREE RADICAL-GENERATING SYSTEM REGULATES APP METABOLISM/PROCESSING: EFFECT OF THE SWEDISH 670/671 APP DOUBLE MUTATION EXPRESSION**
T. Muñoz-Galdeano, J. Aldudo, M.J. Bullido, F. Valdivieso, M. Recuero, *Spain*
- 394 **ACUTE AND CHRONIC STRESS INDUCE CHANGES IN GENE TRANSCRIPTIONS RELATED TO ALZHEIMER'S DISEASE IN RATS**
P. Sántha, M. Pákáski, Ö. Fazekas, S. Kálmán, J. Kálmán Jr., E. Fodor, S. Szűcs, Á. Zvara, G. Szabó, Z. Janka, J. Kálmán, *Hungary*
- 395 **SYNTHETIC RETINOID AM80 IMPROVES THE LOW-ANXIETY BEHAVIOR OF SAMP8 MICE**
M. Nakagomi, K. Shudo, *Japan*
- 396 **REVERSING EPHB2 DEPLETION RESCUES COGNITIVE FUNCTIONS IN ALZHEIMER MODEL**
M. Cissé, B. Halabisky, J. Harris, N. Devidze, D.B. Dubal, B. Sun, A. Orr, G. Lotz, D.H. Kim, P. Hamto, K. Ho, G.-Q. Yu, L. Mucke, *USA*

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- 397 **EFFECT OF ANALOG P165 OF APP 5-MER PEPTIDE ON CHANGE OF LEARNING AND MEMORY ABILITY IN TYPE 3 DIABETES RATS**
R. Wang, *China*
- 398 **ALTERED CELL CYCLE-RELATED GENES EXPRESSION IN BRAIN AND LYMPHOCYTES FROM APP/PS1 MICE**
N. Esteras, C. Alquezar, D. Antequera, E. Carro, Á. Martín-Requero, *Spain*
- 399 **MRI DETECTION OF NEUROINFLAMMATION SURROUNDING AMYLOID PLAQUES WITH USPIO IN ALZHEIMER TRANSGENIC MICE**
G. Louin, J.-S. Raynaud, O. Rousseaux, P. Robert, S. Catoen, I. Raynal, M. Port, C. Corot, *France*
- 400 **PA-2 A NOVEL PHYTOCHEMICAL FORMULATION IMPROVES COGNITION IN ANIMAL MODELS RELEVANT TO ALZHEIMER'S DISEASE**
H. Joshi, D. Chandrashekhar, M. Bhadania, *India*
- 401 **SEROTONIN SIGNALING REGULATES AMYLOID-BETA METABOLISM IN VIVO**
J.R. Cirrito, Y.I. Sheline, D.K. Verges, J.L. Restivo, W.D. Goebel, *USA*
- 402 **CORRELATION OF COGNITIVE DEFICITS AND CEREBRAL AMYLOID ANGIOPATHY DEVELOPMENT IN THE STREPTOZOTOCIN-RAT MODEL OF SPORADIC ALZHEIMER DISEASE**
M. Salkovic-Petrisic, A. Knezovic, J. Osmanovic-Barilar, E. Grünblatt, P. Riederer, *Croatia, Switzerland, Germany*
- 403 **BLOCKADE OF TAU HYPERPHOSPHORYLATION BY A GSK3B INHIBITOR, IN THE AB₂₅₋₃₅ MODEL OF ALZHEIMER'S DISEASE, CORRELATES WITH ATTENUATION OF FUNCTIONAL DEFICITS**
S. Malmstrom, J. Meunier, S.H. Kim, V. Villard, T. Maurice, *France, Republic of Korea*
- 404 **EARLY CHANGES OF ACETYLCHOLINESTERASE ACTIVITY AND INSULIN SYSTEM IN THE BRAIN OF THE STREPTOZOTOCIN-INTRACEREBROVENTRICULARLY TREATED RAT MODEL OF SPORADIC ALZHEIMER'S DISEASE**
A. Knezovic, A.M. Marjanovic, J. Osmanovic-Barilar, V. Bradamante, P. Riederer, M. Salkovic-Petrisic, *Croatia, Germany*
- 405 **LONGITUDINAL CHARACTERISATION OF TG2576 MICE USING *IN VIVO* MRI AND IMMUNOHISTOCHEMISTRY**
F.-H. Wang, M. Nilsson, D. Sunnemark, B. Georgievska, K. Dillner Bergstedt, *Sweden*
- 406 **CHARACTERIZATION OF AMYLOID-B OLIGOMER TOXICITY IN AN *IN VITRO* AND *IN VIVO* EXPERIMENTAL MODELS**
J. Brouillette, R. Caillierez, I. Benilova, B. De Strooper, L. Buée, *France, Belgium*

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- 407 **PROTECTION AGAINST SCOPOLAMINE-INDUCED COGNITIVE IMPAIRMENT BY NOVEL CHOLINESTERASE INHIBITORS**
J. de Cristobal, A. Ternianov, J. Manzanares, M. Medina, *Spain*
- 408 **NEUROPROTECTIVE EFFECTS OF CURCUMINOIDS IN AN AMYLOID-INFUSED RAT MODEL OF ALZHEIMER'S DISEASE**
T. Ahmed, A.H. Gilani, *Pakistan*
- 409 **MATRIX METALLOPROTEINASES (MMPS) AND THEIR PHYSIOLOGICAL TISSUE INHIBITORS (TIMPS) IN THE 5XFAD MICE MODEL OF ALZHEIMER'S DISEASE**
K. Baranger, Y. Marchalant, A. Bernard, N. Py, L. Weinhard, E. Charrat, S. Girard, F. Roman, M. Khrestchatisky, S. Rivera, *France*
- 410 **ROLE OF CELLULAR PRION PROTEIN IN THE INHIBITION OF LONG-TERM POTENTIATION IN THE RAT HIPPOCAMPUS *IN VIVO* BY HUMAN BRAIN-DERIVED AMYLOID-B**
A. Barry, I. Klyubin, J.M. Mc Donald, M. Scott, D.M. Walsh, M.J. Rowan, *Ireland*
- 411 **N-APP/DR6 INTERACTION AND TOXICITY IN TRANSGENIC ZEBRAFISH**
D. Paquet, B. Schmid, C. Haass, *Germany*
- 412 **AGEING AS A RISK FACTOR FOR ALZHEIMER'S DISEASE IN A *DROSOPHILA* MODEL**
A. Vishnivetskaya, M. Giannakou, D. Crowther, *UK*
- 413 **ANALYSIS OF A β -MEDIATED DISRUPTION OF SYNAPTIC PLASTICITY IN TRANSGENIC ARCA β MICE**
A. Trutzel, M. Knobloch, R.M. Nitsch, U. Konietzko, *Switzerland*
- 414 **NEUROBIOLOGICAL EFFECT OF 7-NITROINDAZOLE, A NEURONAL NITRIC OXIDE SYNTHASE INHIBITOR, IN EXPERIMENTAL PARADIGM OF ALZHEIMER'S DISEASE**
A. Kuhad, S. Misra, K. Chopra, *India*
- 415 **ENDOGENOUS NEUROTOXIN QUINOLINIC ACID MAY PLAY A PRIMARY ROLE IN THE PATHOGENESIS OF AD BY KILLING NEURONS AND INCREASING AMYLOID B PEPTIDES IN THE HIPPOCAMPUS**
O. Takikawa, S. Kagawa, A. Okuno, G. Zhang, H. Yokoi, *Japan*
- 416 **CHARACTERIZATION OF ISOQC (QPCTL)-KNOCKOUT MICE: PHYSIOLOGICAL ROLE AND EFFECTS ON TRUNCATED A β**
A. Becker, A. Alexandru, C. Bäuscher, S. Kohlmann, W. Jagla, R. Sedlmeier, A. Müller, D. Friedrich, A. Kehlen, K. Gans, H. Cynis, A. Osmand, S. Graubner, S. von Hörsten, H.-U. Demuth, S. Schilling, *Germany, USA*

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- 417 **NEUROPROTECTIVE AND ANTI-AMNESIC ACTIONS OF PHYTOCHEMICAL BASED FORMULATION BRAINACT-17 IN THE ANIMAL MODELS OF LEARNING AND MEMORY**
H. Joshi, C. Disale, *India*
- 418 **THE PROTECTIVEEFFECTS OF JNK INHIBITOR ON B-AMYLOID-INDUCED NEURONAL APOPTOTIC FACTORS AND SPATIAL MEMORY BEHAVIOR, USING MORRIS WATER MAZE TEST**
M. Ramin, P. Azizi, F. Motamedi, F. Khodagholi, *Iran*
- 419 **AMELIORATION OF COGNITIVE DEFICITS IN APP TRANSGENIC MICE WITH SUBCHRONIC TREATMENT OF A Γ -SECRETASE MODULATOR BUT NOT INHIBITORS**
Y. Mitani, J. Yarimizu, K. Saita, H. Akashiba, H. Uchino, Y. Shitaka, N. Matsuoka, *Japan*
- 420 **CARBOLINES AS POTENTIAL ANTI-ALZHEIMER DRUGS AMELIORATE SCOPOLAMINE-INDUCED DISTURBANCE OF SPATIAL MEMORY - STEREOCHEMICAL ASPECTS**
D. Appenroth, R. Otto, C. Enzensperger, C. Fleck, *Germany*
- 421 **THERAPEUTIC EFFECT OF IMMUNIZATION WITH PRION SYNTHETIC FRAGMENT 95-123 IN BULBECTOMIZED MICE WITH ALZHEIMER'S TYPE DEGENERATION**
A. Kamynina, N. Medvinskaya, I. Aleksandrova, A. Samokhin, T. Volkova, D. Koroev, N. Bobkova, *Russia*
- 422 **FAMILIAL ALZHEIMER'S DISEASE - LINKED SAPP AND PS1 REGULATE NEUROGENESIS IN THE ADULT BRAIN**
O. Lazarov, A. Gadadhar, M. Demars, R. Marr, *USA*
- 423 **GRAPE SEED EXTRACT POLYPHENOLS AND CURCUMIN REDUCE GENOMIC INSTABILITY EVENTS IN A TRANSGENIC MOUSE MODEL FOR ALZHEIMER'S DISEASE**
P. Thomas, Y.-J. Wang, J.-H. Zhong, S. Kosaraju, N. O'Callaghan, X.-F. Zhou, M. Fenech, *Australia*
- 424 **PHARMACOLOGICAL ENHANCEMENT OF NEUROGENESIS AND NEURONAL PLASTICITY: A PROMISING APPROACH TO TREAT ALZHEIMER DISEASE**
I. Grundke-Iqbal, J. Blanchard, K. Iqbal, *USA*
- 425 **NEUROPROTECTIVE EFFECT OF CARNOSIC ACID IN EXPERIMENTAL MODEL OF ALZHEIMER'S DISEASE IN RAT**
N. Azad, H. Rasoolijazi, M.T. Joghataei, S. Soleimani, *Iran*
- 426 **AMELIORATION OF AMYLOID B-INDUCED COGNITIVE DEFICITS BY ZATARIA MULTIFLORA BOISS. ESSENTIAL OIL IN A RAT MODEL OF ALZHEIMER'S DISEASE**
N. Majlessi, S. Choopani, M. Kamalinejad, Z. Azizi, *Iran*

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- 427 **BMP4/NOGGIN CONTRIBUTE TO ABNORMAL NEUROGENESIS IN THE ADULT HIPPOCAMPAL OF APPSWE/PS1E9 TRANSGENIC MOUSE MODEL OF ALZHEIMER'S DISEASE**
J. Tang, D. Li, H. Xu, Y. Bai, *USA, China*
- 428 **RESVERATROL PREVENTS ALCOHOL-INDUCED COGNITIVE DEFICITS AND BRAIN DAMAGE BY BLOCKING INFLAMMATORY SIGNALING AND CELL DEATH CASCADE IN NEONATAL RAT BRAIN**
V. Tiwari, K. Chopra, *India*
- 429 **PROTECTIVE ROLES OF S-NITROSOGLUTATHIONE (GSNO) IN RAT CHRONIC CEREBRAL HYPOPERFUSION INDUCED MILD-COGNITIVE IMPAIRMENT**
I. Singh, J.-S. Won, A.K. Singh, *USA*
- 430 **EFFECT OF ENDURANCE EXERCISE TRAINING ON THE EXPRESSION OF GFAP, S100B, AND NSE IN THE STRIATUM OF CHRONIC/PROGRESSIVE MOUSE MODEL OF PARKINSON'S DISEASE**
M. Al-Jarrah, M. Jamous, *Jordan*
- 431 **DELAYED TREATMENTS WITH A NOVEL DIKETOPIPERAZINE IMPROVES LONG-TERM MOTOR FUNCTION AFTER 6-OHDA LESION IN RATS**
J. Guan, R. Krishnamuthi, *New Zealand*
- 432 **GM1 GANGLIOSIDE DEFICIENT MOUSE AS MODEL OF PARKINSON'S DISEASE**
G. Wu, Z. Lu, R.W. Ledeen, *USA*
- 433 **REGULATION OF CELLULAR REDOX STATUS BY NOVEL ANTIOXIDANT ENZYMES IN PARKINSON'S DISEASE MODELS**
J.-W. Park, *Republic of Korea*
- 434 **ALTERED PATTERNS OF NEURONAL MICROCIRCUIT ACTIVITY WITHIN THE CORTEX OF TRANSGENIC AD MICE**
R. Ronicke, M. Happel, H. Lison, J. Schneeberg, M. Zappe, J. Bock, K. Braun, H. Scheich, F. Ohl, K. Reymann, *Germany*
- 435 **PLASMA LEVELS OF B-AMYLOID PEPTIDES IN SUCCESSFUL AGING AND COGNITIVE DYSFUNCTION IN PET DOGS**
B. Rosado, Á. González-Martínez, P. Pesini, M.-L. Suárez, G. Santamarina, S. García-Belenguer, A. Villegas, I. Monleón, M. Sarasa, *Spain*
- 436 **ROLE OF THE NITRIC OXIDE PATHWAY IN THE SPATIAL MEMORY AND NEURONAL DAMAGE IN RATS WITH AMYLOID- β_{25-35} INJECTION INTO THE TEMPORAL CORTEX**
A. Díaz, L. Mendieta, I. Martínez, J. Guevara, E. Zenteno, I.D. Limón, *Mexico*
- 437 **ABSENCE OF SKILLED MOTOR LEARNING IN THE RAT MODEL OF PARKINSON'S DISEASE (PD) AFTER 20 WEEKS OF LESION**
H. Gambhir, S. Vivekanandhan, V. Goyal, R. Mathur, M. Behari, *India*

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- 438 **NEUROTROPHIC AND COMBINED TREATMENT IN ALZHEIMER'S DISEASE: MODULATORY EFFECTS ON FREE IGF-I AND TNF-ALPHA**
A. Alvarez, C. Sampedro, R. Cacabelos, M. Aleixandre, E. Doppler, P. Novak, H. Moessler, *Spain, Austria*
- 439 **PARTIAL BIOPTERIN DEFICIENCY DISTURBS POSTNATAL DEVELOPMENT OF THE DOPAMINERGIC SYSTEM**
D. Homma, C. Sumi-Ichinose, H. Tokuoka, K. Ikemoto, T. Nomura, K. Kondo, S. Katoh, H. Ichinose, *Japan*
- 440 **CEBUS APELLA: AN EXPERIMENTAL MODEL TO STUDY PARKINSON'S DISEASE?**
K.S.M. Silva, P.E.G.A. Delage, O.F. Galvão, R.D.S. Barros, L.B. Torres, B.A. Silva, O.K. Okamoto, A.Í.C. Gonzaga, J.L. Boaretto, *Brazil*
- 441 **INTRAVENTRICULAR 6-OHDA ADMINISTRATION: A PROGRESSIVE MODEL OF PARKINSON'S DISEASE IN RATS**
A. Quiroga, E. Aguilar, J.A. Obeso, C. Mari, *Spain*
- 442 **QUANTIFICATION OF CEREBROVASCULAR CHANGES IN THE AGING LOU/C RAT USING INTRINSIC OPTICAL IMAGING**
S. Dubeau, G. Ferland, P. Gaudreau, É. Beaumont, F. Lesage, *Canada*
- 443 **ODOR DISCRIMINATION IMPAIRMENT IN 6-OHDA-LESIONED RATS: A TOOL FOR HYPOSMIA RESEARCH IN PARKINSON'S DISEASE**
E. Aguilar, J. Mullol, V. Clementi, V. Perez, C. Marin, *Spain*
- 444 **AUTOPHAGIC MARKERS IN THE 6-OHDA RAT MODEL OF PARKINSON'S DISEASE**
C. Marin, E. Aguilar, *Spain*
- 445 **NEUROPROTECTIVE ROLE OF NARDOSTSCHYS JATAMANSI ON HALOPERIDOL INDUCED CATALEPSY IN WISTAR RATS**
R.A. Shaik, S. Rasheed Ahemad, S. Venkataraman, K.N. Jayaveera, F.A. Mohammed, G.S. Shafi, M.A. Aleem, S.M. Kazim, I. Mohammed, *India*
- 446 **RAAV 2/7 -MEDIATED OVEREXPRESSION OF A-SYNUCLEIN IN RAT BRAIN INDUCES RAPID DOPAMINERGIC DYSFUNCTION**
A. Van der Perren, J. Toelen, V. Reumers, A.-S. Van Rompuy, C. Van den Haute, Z. Debyser, V. Baekelandt, *Belgium*
- 447 **CHARACTERIZATION OF A-SYNUCLEIN OVEREXPRESSING MICE (PDGF A-SYN, D-LINE): BEHAVIORAL AND HISTOLOGICAL CHANGES THROUGHOUT ADULTHOOD AND AGING**
D. Amschl, J. Neddens, S. Duller, M. Windisch, B. Hutter-Paier, *Austria*

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- 448 **INDUCTION OF THE UNFOLDED PROTEIN RESPONSE BY ALPHA-SYNUCLEIN IN EXPERIMENTAL MODELS OF PARKINSON DISEASE**
L. Navarria, M. Zaltieri, S. Bodei, S. Sigala, M.G. Spillantini, C. Missale, P. Spano, A. Bellucci, *Italy, UK*
- 449 **BEHAVIORAL DEFICITS CORRELATE WITH INTRACELLULAR A-BETA PATHOLOGY IN A NEW WILDTYPE APP MOUSE MODEL**
P. Metcher-Pail, D. Havas, S. Duller, P. Heinrich, M. Windisch, B. Hutter-Paier, *Austria*
- 450 **THE PROTEOSTASIS NETWORK IN AGE-ASSOCIATED NEURODEGENERATIVE DISEASES**
H. Ge, L. Wang, Y. Zhu, K. Bailey, W.E. Balch, A. Dillin, R.I. Morimoto, W. Newman, P.H. Reinhart, *USA*
- 451 **RAB6 FUNCTION DURING ER STRESS IN ALZHEIMER'S DISEASE**
H.L. Elfrink, R. Zwart, M. López-Cavanillas, F. Baas, W. Scheper, *The Netherlands*
- 452 **DOPAMINE INDUCES VOLTAGE DEPENDENT ANION CHANNELS DOWNREGULATION AND IMPAIRS CLEARANCE OF DAMAGED MITOCHONDRIA IN SH-SY5Y CELLS**
T. Alberio, C. Mammucari, R. Rizzuto, M. Fasano, *Italy*
- 453 **DETECTION OF ENDOGENOUS MARK/PAR-1 ACTIVITY IN LIVING NEURONS BY A NOVEL BIOSENSOR AND SEARCH FOR SMALL MOLECULE INHIBITORS OF MARK**
T. Timm, J.P. von Kries, X. Li, J. Biernat, E.-M. Mandelkow, *Germany*
- 454 **EFFECT OF INFLAMMATORY ACTIVATION ON THE NEURO SUPPORTIVE FUNCTIONS OF ASTROGLIA**
M.L. Steele, S. Fuller, G.W. Muench, *Australia*
- 455 **EXPRESSION OF ALZHEIMER'S DISEASE-ASSOCIATED PROTEIN UBIQUILIN-1 DECREASES SER51 PHOSPHORYLATION OF EIF2A AND CHOP LEVELS UNDER ER-STRESS**
K.M.A. Kurkinen, T. Natunen, A. Haapasalo, J. Viswanathan, P. Mäkinen, A. Lu, L. Bertram, H. Soininen, R.E. Tanzi, M. Hiltunen, *Finland, USA, Germany*
- 456 **DELINEATING THE DE NOVO METHYLATION PATTERN OF THE ATAXIN-2 PROMOTER**
J.M. Laffita-Mesa, D. Almaguer Gotay, L. Peña-Serrano, P. Bauer, D.A. Coello Almarales, J. Montes-Brown, L.C. Velázquez Pérez, *Cuba, Japan*
- 457 **IDENTIFICATION OF IRON-ASSOCIATED SIDEROFLEXIN 1 AS A POTENTIAL DOWNSTREAM EFFECTOR OF PTEN-INDUCED KINASE 1**
C.H. Sim, K.-C. Chan, N.A. Williamson, C.S. Tong, L.T. Tran, P.W.Y. Chu, A.F. Hill, K. Gabriel, H.-C. Cheng, J.G. Culvenor, *Australia*

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- 503 **CLINICAL CHARACTERISTICS OF EARLY-ONSET ALZHEIMER'S DISEASE PATIENTS: A CREDOS (CLINICAL RESEARCH CENTER FOR DEMENTIA OF SOUTH KOREA) STUDY**
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- 506 **SELECTIVE VULNERABILITY OF A SUB-POPULATION OF CORTICAL NEURONS TO ALZHEIMER'S DISEASE PATHOLOGY**
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- 507 **THE RELATIONSHIP BETWEEN THE COGNITIVE FUNCTION AND THE MOTOR FEATURES IN PARKINSON'S DISEASE PATIENTS**
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- 510 **DETERMINANTS OF CAREGIVER BURDEN ASSOCIATED WITH MODERATE ALZHEIMER'S DISEASE PATIENTS MANAGEMENT IN SPAIN: THE EVOCOST STUDY**
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- 512 **INFLUENCE OF BASELINE SCORE SUMS ON TREATMENT EFFECT ASSESSED BY NUMERIC RATING SCALE IN PARKINSONIAN PATIENTS TREATED WITH BUDIPINE**
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- 515 **VALIDATION STUDY OF THE MONTREAL COGNITIVE ASSESSMENT (MOCA) FOR ALZHEIMER'S DISEASE AND MILD COGNITIVE IMPAIRMENT PATIENTS**
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- 517 **APATHY AND IMPLICIT CATEGORY LEARNING IN NONDEMENTED PARKINSON'S DISEASE PATIENTS**
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- 528 **THE NATIONAL INSTITUTE OF HEALTH (NIH) TOOLBOX: PRELIMINARY REPORT OF ITS USE IN PARKINSON'S DISEASE**
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- 539 **DEPRESSIVE SYMPTOMS IN PATIENTS WITH ALZHEIMER'S DISEASE: A COMPARATIVE STUDY BETWEEN PATIENT'S AND CAREGIVER'S REPORT**
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- 540 **COGNITIVE AND NEUROPSYCHIATRIC CORRELATES OF MEDIAL TEMPORAL LOBE INTEGRITY IN PARKINSON'S DISEASE**
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- 542 **PHYSICAL ACTIVITY AND SOCIAL INTERACTION: POSSIBLE EFFECTS IN GLOBAL COGNITIVE FUNCTIONS AND VERBAL FLUENCY OF PATIENTS WITH ALZHEIMER'S DISEASE**
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- 547 **THE PREVALENCE OF NON MOTOR SYMPTOMS AND RESTLESS LEGS SYNDROME IN PARKINSON'S DISEASE: CORRELATION WITH QUALITY OF LIFE**
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- 548 **RELATIONSHIP BETWEEN ORTHOSTATIC HYPOTENSION AND COGNITIVE IMPAIRMENT IN PARKINSON'S DISEASE**
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- 549 **ENVIRONMENTAL COGNITIVE IMPAIRMENT IN BRAIN NEURODEVELOPMENT AND NEURODEGENERATION DISORDERS**
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- 551 **THE AGING COGNITION EVALUATION (ACE) CSF REGISTRY; 2011 UPDATE**
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- 552 **THE TIME COURSE OF SEMANTIC AND EPISODIC MEMORY DECLINE IN MILD COGNITIVE IMPAIRMENT AND EARLY ALZHEIMER'S DISEASE**
C. Bocti, C.E. Whatmough, K. Zanibbi, H.M. Chertkow, *Canada*
- 553 **A LONGITUDINAL STUDY OF COGNITIVE FUNCTIONS IN PATIENTS WITH NEUROMYELITIS OPTICA**
B. Jung, F. Blanc, N. Longato, C. Kleitz, N. Cremel, L. Di Bitonto, B. Brice, J.-B. Chanson, N. Collongues, J. De Seze, *France*
- 554 **MILD COGNITIVE IMPAIRMENT AND DEMENTIA IN PRIMARY SJÖGREN SYNDROME**
F. Blanc, N. Longato, B. Jung, C. Kleitz, L. Di Bitonto, B. Cretin, D. Lipsker, T. Martin, J. Sibilia, J. de Seze, *France*
- 555 **COGNITIVE IMPAIRMENTS IN FABRY'S DISEASE**
N. Longato, C. Kleitz, L. Di Bitonto, B. Jung, E. Noel, F. Blanc, *France*
- 556 **WHITE MATTER CHANGES IN ATTENTION/EXECUTIVE DEFICIT MILD COGNITIVE IMPAIRMENT**
P. Selnes, R. Grambaite, I. Reinvang, D. Aarsland, E. Hessen, T. Fladby, *Norway*
- 557 **REGIONAL WHITE MATTER TRACT CHANGES IN ATTENTION/EXECUTIVE DEFICIT MILD COGNITIVE IMPAIRMENT**
R. Grambaite, P. Selnes, I. Reinvang, D. Aarsland, E. Hessen, T. Fladby, *Norway*
- 558 **LONG-TERM COGNITIVE DEFICITS AND BRAIN DYSFUNCTION AFTER RECOVERY FROM SEPSIS**
C.N. Widmann, A. Semmler, T. Okulla, M. Kaiser, H. Urbach, J. Weide, K. Fliessbach, A. Hoefft, G. Widman, F. Jessen, M.T. Heneka, *Germany, Switzerland*
- 559 **THE TEMPORAL STABILITY OF FOUR MILD COGNITIVE IMPAIRMENT SUBTYPES**
M.-L. Lüthi, A.M. Kälin, A.F. Gietl, R.M. Nitsch, C. Hock, *Switzerland*
- 560 **SPATIAL NAVIGATION AND APOE IN AMNESTIC MILD COGNITIVE IMPAIRMENT - CLINICAL IMPLICATIONS**
J. Laczó, R. Andel, K. Vlček, V. Maťoška, M. Vyhnálek, Z. Nedelská, H. Magerová, A. Varjassyová, I. Gažová, I. Mokrišová, M. Tolar, M. Bojar, J. Hort, *Czech Republic, USA*

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- 561 **AGE-RELATED VASCULAR DEGENERATION AND MEMORY DECLINE**
J. Guan, R. Zhang, *New Zealand*
- 562 **NEUROMELANIN IMAGING IN THE LOCUS CERULEUS IN MILD COGNITIVE IMPAIRMENT**
J. Takahashi, S. Takahashi, H. Yonezawa, M. Kudo, S. Obara, T. Sibata, M. Suzuki, M. Sasaki, Y. Terayama, *Japan*
- 563 **MAKING SENSE OF MEDICAL UNCERTAINTY: SUBJECTIVE EXPERIENCES OF MILD COGNITIVE IMPAIRMENT**
R. Beard, *USA*
- 564 **PREDICTORS OF COGNITIVE DECLINE IN INDIVIDUALS WITH SUBJECTIVE COGNITIVE IMPAIRMENT: FIRST BULGARIAN LONGITUDINAL STUDY DESIGN AND PRELIMINARY RESULTS**
V. Kirkova, L. Traykov, *Bulgaria*
- 565 **ROLE OF AMYGDALA IN ODOR IDENTIFICATION FAILURE IN PRODROMAL ALZHEIMER'S DISEASE**
H. Magerova, J. Laczo, Z. Nedelska, A. Varjassyova, M. Vyhnalek, J. Lisy, M. Rocek, D. Horinek, M. Bojar, J. Hort, *Czech Republic*
- 566 **THE PREDICTION OF PROGRESSION TO ALZHEIMER'S DISEASE IN MILD COGNITIVE IMPAIRMENT USING FUNCTIONAL NEUROIMAGING OF TC-99M HMPAO SPECT**
K.W. Park, D.-Y. Kang, H.J. Yoon, B.C. Kim, S. Kim, J.W. Kim, *Republic of Korea*
- 567 **ELECTROPHYSIOLOGICAL PATTERNS DISTINGUISH MULTIPLE- FROM SINGLE-DOMAIN AMNESTIC MILD COGNITIVE IMPAIRMENT AT RETRIEVAL, BUT NOT AT ENCODING**
M.-P. Deiber, V. Ibañez, F. Herrmann, C. Rodriguez, P. Missonnier, J. Emch, P. Millet, G. Gold, P. Giannakopoulos, *France, Switzerland*
- 568 **MILD COGNITIVE IMPAIRMENT (MCI) E AND PARKINSON'S DISEASE: CLINICAL, NEUROPSYCHOLOGICAL, AND NEUROPHYSIOLOGICAL FOLLOW-UP**
S. Bifolchetti, A. Thomas, L. Ricciardi, F. Ciccocioppo, D. Monaco, M. d' Amico, I. Borrelli, H. Zhuzhuni, L. Bbonanni, M. Onofri, *Italy*
- 569 **FEATURES OF PRE-CLINICAL LANGUAGE CHANGE IN MCI: DIAGNOSTIC AND PROGNOSTIC INDICATORS**
S. Ahmed-Ali, C.A. de Jager, A.-M. Haigh, P. Garrard, *UK*
- 570 **UNCIATE FASCICULUS BY DIFFUSION TENSOR IMAGING IN ALZHEIMER DISEASE AND AMNESTIC MILD COGNITIVE IMPAIRMENT**
K. Hiyoshi-Taniguchi, C. Namiki, S. Fujie, J. Miyata, D. Sakata, N. Sawamoto, T. Hayashi, T. Murai, F. Vialatte, H. Fukuyama, A. Chichocki, *Japan, France*

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- 571 **COGNITIVE DYSFUNCTION, SLEEP-WAKE CYCLE ALTERATIONS, AND AUTONOMIC ACTIVITY IN PATIENTS WITH MILD COGNITIVE IMPAIRMENT**
F. Vidal, E. Roldán-Gerschovich, D. Cardinali, D.E. Vigo, **S. Guinjoan**, *Argentina*
- 572 **LATERAL TEMPORAL ATROPHY IN MILD COGNITIVE IMPAIRMENT**
S.-J. Cho, Y.-K. Minn, J.-A. Kim, M.-J. Kim, K.-H. Kwon, *Republic of Korea*
- 573 **ENHANCE EXCITATORY NEUROTRANSMISSION IN HIPPOCAMPAL SLICES BY ANTI-P AUTOANTIBODIES FROM A PATIENT WITH SYSTEMIC LUPUS ERYTHEMATOSUS (SLE)**
J. Parodi, C. Carcamo, M. Bravo, L. Massardo, S. Jacobelli, N. Inestrosa, **A. Gonzalez**, *Chile*
- 574 **THE PLACEBO GROUP SIMULATION APPROACH (PGSA): REPLACING PLACEBO IN LONG-TERM TRIALS WITH PRE-SYMPTOMATIC AD PATIENTS**
R. Spiegel, M. Berres, A.R. Miserez, A.U. Monsch, *Switzerland*
- 575 **THE SPECTRUM OF NEUROPSYCHIATRIC SYMPTOMS IN PARKINSON'S DISEASE ACCORDING TO COGNITIVE FUNCTION**
S. Choi, C.K. Ha, C.-S. Song, S.-H. Kim, I.-T. Han, C.-G. Hong, J.J. Park, N.Y. Ryoo, Y. Choi, *Republic of Korea*
- 576 **CHARACTERIZATION OF THE ROLE OF PROTOCADHERIN 11 X-LINKED IN ALZHEIMER'S DISEASE**
Y. Levites, M. Carrasquillo, K. Jansen, C. Ceballos-Diaz, T. Golde, *USA*
- 577 **PLASMA TOCOPHEROLS, TOCOTRIENOLS AND COGNITIVE DECLINE: A MULTICENTRE STUDY IN EUROPE**
F. Mangialasche, W. Xu, M. Kivipelto, E. Costanzi, S. Ercolani, M. Pigliautile, R. Cecchetti, M. Baglioni, A. Simmons, H. Soininen, M. Tsolaki, I. Kloszewska, B. Vellas, S. Lovestone, P. Mecocci, AddNeuroMed Consortium, *Sweden, Italy, UK, Finland, Greece, Poland, France*
- 578 **THE INCREASE OF BURST DISCHARGES IN THE SUBTHALAMUS IS ESSENTIAL FOR THE GENESIS OF LOCOMOTOR DEFICITS IN PARKINSON'S DISEASE**
C.-H. Tai, M.-K. Pan, **C.-C. Kuo**, *Taiwan R.O.C.*
- 579 **INEFFICIENT METHYL GROUP ASSIMILATION PATHWAY IS RELATED WITH THE DEVELOPMENT AND SEVERITY OF ALZHEIMER'S DISEASE**
J.V. Sanchez-Mut, I. Ferrer, M. Esteller, *Spain*

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- 580 **DELINEATING EARLY AND LATE EVENTS IN ALZHEIMER'S DISEASE USING SYSTEMS-LEVEL PATHWAY DYNAMICS**
S. Barbash, A. Berson, H. Soreq, *Israel*
- 581 **METABOLIC ALTERATIONS INDUCED BY SUCROSE INTAKE AND ALZHEIMER'S DISEASE PROMOTE SIMILAR MITOCHONDRIAL ABNORMALITIES**
C. Carvalho, M.S. Santos, C.R. Oliveira, P.I. Moreira, *Portugal*
- 582 **OXIDATIVE STRESS IN MILD COGNITIVE IMPAIRMENT, A SIGNAL FOR ALZHEIMER DISEASE?**
M. Padurariu, A. Ciobica, L. Hritcu, C. Joacabine, *Romania*
- 583 **MOLECULAR CHAPERONES IN THE PATHOGENESIS OF ALZHEIMER DISEASE**
Z. Milicevic, V.S. Bajic, B. Spremo Potparevic, *Serbia*
- 584 **APPROACHES TO PROTECT AGAINST NITRO-OXIDATIVE DAMAGE TRIGGERED BY AMYLOID β -PEPTIDE**
M. Bosch, G. Ill-Raga, E. Ramos-Fernández, E. Palomer, M. Tajés, F.X. Guix, F.J. Muñoz, *Spain*
- 585 **ABNORMALITY OF MITOCHONDRIAL DYNAMICS IN OKADAIC ACID INDUCED NEURODEGENERATION**
M.-H. Cho, D.-H. Kim, S.-Y. Yoon, *Republic of Korea*
- 586 **ENDOPLASMIC RETICULUM STRESS INDUCES TAU PATHOLOGY AND FORMS VICIOUS CYCLE IN PATHOGENESIS OF ALZHEIMER'S DISEASE**
Y.-S. Ho, X.-F. Yang, C.-F. Lau, C.H.-L. Hung, S. Wuwongse, N.Q.-S. Zhang, R.C.-C. Chang, *Hong Kong S.A.R.*
- 587 **A NH₂ TAU FRAGMENT TARGETS AND IMPAIRS NEURONAL MITOCHONDRIA AT AD SYNAPSES**
G. Amadoro, V. Corsetti, F. Florenzano¹, R. Bussani, D. Mercanti, P. Calissano, *Italy*
- 588 **CORRELATION BETWEEN CELLULAR REDOX PROFILE AND P53 CONFORMATIONAL CHANGES**
G. Cenini, C. Lanni, G. Ferrari-Toninelli, L. Buizza, S. Govoni, M. Racchi, M. Barcikowska, M. Styczynska, A. Szybinska, D.A. Butterfield, M. Memo, D. Uberti, *Italy, USA, Poland*
- 589 **OXIDATIVE STRESS IN THE FRONTAL CORTEX OF DOWN SYNDROME BRAIN**
A.L.S. Dowling, G. Cenini, F.A. Schmitt, D.A. Butterfield, E. Head, *USA*
- 590 **BRAIN ENERGY METABOLISM: A COMPUTATIONAL INVESTIGATION OF THE ROLE OF ENERGY DEFICITS IN PD RISK FACTORS**
P. Wellstead, M. Cloutier, *Ireland, Canada*

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ALZHEIMER'S DISEASE**

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- 591 **RELATIONSHIP BETWEEN RNA OXIDATION ADDUCTS AND AB IN ALZHEIMER'S DISEASE**
A.M. Weidner, M.A. Bradley, D.M. Niedowicz, T.L. Beckett, A.L.S. Dowling, E. Head, M.A. Lovell, M.P. Murphy, *USA*
- 592 **4-METHYLCOUMARINS PROTECT NEURONAL CELLS AGAINST OXIDATIVE STRESS**
R. Miri, O. Firuzi, M. Tavakkoli, V.S. Parmar, A.K. Prasad, L. Saso, *Iran, India, Italy*
- 593 **INVOLVEMENT OF BETA-CATENIN SIGNALING IN CURCUMIN PROTECTING AGAINST AB₁₋₄₂-INDUCED NEUROTOXICITY**
J.B. Hoppe, R.L. Frozza, A. Meneghetti, D. Gerhardt, T. Silva, A. Matté, P. Grudzinski, C.G. Salbego, *Brazil*
- 594 **THE OXIDATION STATE OF ABRI REGULATES BOTH ITS AGGREGATION AND TOXICITY**
C. Sala Frigerio, D.B. Freir, B. Boland, A.J. Cantlon, D.M. Walsh, *Ireland*
- 595 **REGULATION OF MITOCHONDRIAL TRANSPORT IN NEURONS: MARK2 TURNS PINK1 ONBY PHOSPHORYLATION IN THE CATALYTIC DOMAIN**
D. Matenia, C. Hempf, T. Timm, A. Eikhof, J. Biernat, E.-M. Mandelkow, *Germany*
- 596 **ENDOPLASMIC RETICULUM STRESS ACTIVATES AUTOPHAGY BUT NOT THE PROTEASOME IN NEURONAL CELLS**
D. Nijholt, T. de Graaf, L. Schmidt, E. van Haastert, R. Zwart, H. Ovaa, F. Baas, J. Hoozemans, W. Scheper, *The Netherlands*
- 597 **A STUDY OF CASPASE AND EXERCISE IN PARKINSONS DISEASE: DOESEXERCISE SUPPRESS CELL DEATH?**
Z. Chaudhry, M. Chalimoniuk, J. Langfort, B. Ahmed, *UK, Poland*
- 598 **MODELLING PROTEIN AND OXIDATIVE STRESS PATHWAYS IN PARKINSON'S DISEASE: IDENTIFICATION OF A POSITIVE FEEDBACK MOTIF AS A POTENTIAL ETIOLOGICAL TRIGGER**
M. Cloutier, P. Wellstead, *Canada, Ireland*
- 599 **PREVENTION OF OXIDATIVE DAMAGE IN PC12 CELLS BY DERIVATIVES OF METHYLCOUMARINS**
K. Javidnia, O. Firuzi, R. Miri, V.S. Parmar, A.K. Prasad, L. Saso, *Iran, India, Italy*
- 600 **THE STUDY OF APOPTOSIS INDUCE OF PRESSURE IN SPINAL CORD INJURY IN ADULT RATS**
M. Heshmati, *Anatomy and Pathology, Iran*
- 601 **CALCIUM HANDLING ASPECTS OF PARKINSON'S DISEASE PATHOGENESIS**
F. Francis, **M.R. García**, P. Wellstead, R. Middleton, *Ireland*

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- 602 **MODULATION OF ALZHEIMER'S DISEASE BY HERBS WITH ANTIOXIDANT ACTIVITY**
N. Amin, S. Pallewar, S. Belemkar, P. Mehta, G. Chakraborty, *India*
- 603 **GSK3BETA INTERACTS WITH AND PHOSPHORYLATES DRP1/HDYNIIV THAT AFFECTS MITOCHONDRIAL MORPHOLOGY IN NEURAL CELLS**
Y.-R. Hong, H.-D. Liao, R.-C. Lin, Y.-C. Wang, C.-H. Chou, C.-C. Lin, S.-L. Howng, *Taiwan R.O.C.*
- 604 **THE OMEGA-3 FATTY ACID, DHA, ACTS THROUGH A ZINC-DEPENDENT MECHANISM TO PREVENT NEURONAL CELL DEATH**
V. De Mel, C. Suphioglu, L. Ackland, *Australia*
- 605 **LEARNING DIFFERENCE WITH REPEATED KOREAN VERSION OF MINI-MENTAL STATUS EXAMINATION (K-MMSE) TESTING BETWEEN PATIENTS WITH ALZHEIMER'S DISEASE AND MILD COGNITIVE IMPAIRMENT**
S.H. Yun, C. Kim, *Republic of Korea*
- 606 **PROSPECTIVE AND RETROSPECTIVE MEMORY FAILURES IN PERSONS WITH MEMORY COMPLAINTS: A QUESTIONNAIRE STUDY**
K.K. Kim, E. Byun, *Republic of Korea*
- 607 **THE PSYCHOPATHOLOGICAL BURDEN OF OUTPATIENTS WITH ALZHEIMER'S DEMENTIA AND THEIR CAREGIVERS - THE IDEA-STUDY (IMPROVING ALZHEIMER'S DEMENTIA TREATMENT: EPIDEMIOLOGICAL ASSESSMENT OF PATIENTS', CAREGIVERS' AND DOCTORS' UNMET NEEDS AND BARRIERS)**
A. Barth, O. Riedel, H.-U. Wittchen, *Germany*
- 608 **ROLE OF VISFATIN (PBEF1/NAMPT) AND VISFATIN G-948T POLYMORPHISM IN ALZHEIMER'S DISEASE**
U. Vurgun, K.U. Tufekci, O. Sahin, P. Keskinoglu, G. Yener, K.K. Genc, S. Genc, *Turkey*
- 609 **NEUROPSYCHOLOGICAL MARKERS AND CIRCADIAN SALIVARY CORTISOL IN COGNITIVELY NORMAL ELDERLY AND TWO MCI SUBPROFILES: NON-AMNESTIC AND MULTIDOMAIN. A LONGITUDINAL STUDY IN MADRID**
H. Peraita, C. Díaz-Mardomingo, S. García-Herraz, A. Valencia, I. Pereda-Pérez, C. Venero, *Spain*
- 610 **COMPARISON OF A BLOOD-BASED 96 GENE EXPRESSION ASSAY AND BIOMARKERS IN CEREBROSPINAL FLUID IN THE DIAGNOSIS OF EARLY ALZHEIMER'S DISEASE**
L. Roed, P.D. Rye, B.B. Booij, G. Grave, L. Kristiansen, H.-M. Andersen, M. Jensen, K. Bårdsen, T. Lindahl, P. Sharma, A. Lönnborg, *Norway*
- 611 **MISSENSE MUTATIONS (R1441C, A1442P) WITHIN THE ROC DOMAIN REDUCE THE STABILITY OF LRRK2 PROTEIN**
I. Greene, F. Mastaglia, B. Meloni, J. Chieng, S. Boulos, *Australia*

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- 1 **REGULATION OF THE INFLAMMATORY PHENOTYPE OF MICROGLIA BY LIVER X RECEPTORS**
X.C. Hever, S. Losciuto, T. Heurtaux, E. Morga, P. Heuschling, *Luxembourg*
- 2 **INVOLVEMENT OF PROLYL ENDOPEPTIDASE IN AXONAL TRANSPORT AND PROTEIN SECRETION**
M. Blosa, I. Schulz, U. Zeitschel, G. Seeger, S. Roßner, M. Morawski, *Germany*
- 3 **INTRAVENOUS IMMUNOGLOBULIN BINDS BETA AMYLOID AND MODIFIES ITS AGGREGATION, NEUROTOXICITY AND STIMULATORY PROPERTIES *IN VITRO***
S. Cattepoel, A. Schaub, M. Ender, M.W. Nolte, L.J. Fabri, R.F. Bolli, S.M. Miescher, *Switzerland, Germany, Australia*
- 4 **CHARACTERIZATION OF BIOLOGICALLY DERIVED SOLUBLE AB WITH DENSITY GRADIENT ULTRACENTRIFUGATION**
F. Ekholm Pettersson, D. Sehlin, H. Englund, B. Simu, M. Karlsson, M. Ingelsson, F. Nikolajeff, L. Lannfelt, *Sweden*
- 5 **RESOLUTION OF INFLAMMATION IN ALZHEIMER'S DISEASE - ROLE OF MICROGLIA**
E. Hjorth, I. Vedin, J. Palmblad, T. Cederholm, Y. Freund-Levi, H. Basun, M. Eriksdotter-Jönhagen, M. Schultzberg, *Sweden*
- 6 **MODULATION OF MICROGLIA-ASTROCYTES INTERACTION THROUGH LXR ACTIVATION**
S. Losciuto, X.C. Hever, T. Heurtaux, E. Morga, P. Heuschling, *Luxembourg*
- 7 **WHITE AND GREY MATTER ALTERATIONS AND CEREBRAL HYPOPERFUSION IN MILD COGNITIVE IMPAIRMENT AND ALZHEIMER DISEASE**
T. Hattori, S. Orimo, S. Aoki, K. Ito, A. Amano, K. Sakai, R. Sato, H. Mizusawa, *Japan*
- 8 **AMYLOID-B PROTEIN INDUCES CASPASE-12 DEPENDENT SYNAPTOTOXICITY IN ISOLATED NERVE ENDINGS**
R. Quiroz-Baez, P. Ferrera, C. Arias, *Mexico*
- 9 **A VERSATILE MICROGLIA-NEURON CO-CULTURE SYSTEM FOR THE IDENTIFICATION OF ANTI-INFLAMMATORY NEUROPROTECTANTS - APPLICATION TO SCREENING OF NATURAL COMPOUNDS**
A. Rahmadi, A.E. Maczurek, G. Muench, *Australia*
- 10 **UNDERSTANDING THE MECHANISM OF AB AGGREGATION IN ALZHEIMER'S DISEASE USING NOVEL SMALL AROMATIC MOLECULES**
S. Peled, R. Scherzer-Attali, E. Gazit, D. Segal, *Israel*

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- 11 **DECREASE OF CREB CONTENT IN THE HIPPOCAMPAL NEURONS OF ALZHEIMER'S BRAIN**
K. Velmurugan, S. Pugazhenti, *USA*
- 12 **SELECTIVE PHOSPHORYLATION OF CRMP2 AT SER-522 BY CDK5: GENE SILENCING STUDIES**
E. García-Palomero, M.L. Navarro, S. Rodriguez-Rodriguez, J.M. Dominguez, *Spain*
- 13 **COPY NUMBER VARIANTS IN ALZHEIMER'S DISEASE**
J. Chapman, D. Ivanov, J. Williams, G. Kirov, GERAD Consortium, *UK*
- 14 **UPREGULATION OF BRAIN RENIN ANGIOTENSIN SYSTEM BY 27-HYDROXYCHOLESTEROL IN ALZHEIMER'S DISEASE**
L. Mateos, M.-A.-M. Ismail, F. Gil-Bea, V. Leoni, B. Winblad, I. Björkhem, A. Cedazo-Mínguez, *Sweden*
- 15 **HUNTING FOR THE MOST TOXIC A β -OLIGOMER - ONE SPECIES OR A PLETHORA OF INTERMEDIATES?**
J. Moreth, K. Kroker, D. Schwanzar, H. Rosenbrock, L. Kussmaul, *Germany*
- 16 **PARTICIPATION OF THE PHOSPHO-P44/P42 MAPK IN NEURONAL CELL-CYCLE REACTIVATION AFTER DEAFFERENTATION OF THE DENDATE GYRUS**
K. Hernández, C. Arias, *Mexico*
- 17 **"IN VITRO" CHARACTERIZATION OF BETA-AMYLOID CONTENT AND BINDING CAPACITY IN THERAPEUTIC ALBUMIN AND PLASMA FROM HEALTHY DONORS**
M. Costa, A.M. Ortiz, J.I. Jorquera, *Spain*
- 18 **REGULATION OF A PLASMA MEMBRANE VOLTAGE-DEPENDENT ANION CHANNEL (PL-VDAC) BY ESTROGENS IS RELATED TO THE PATHOGENESIS OF ALZHEIMER'S DISEASE**
R. Marin, J.L. Herrera, C.E. Fernandez, M. Diaz, *Spain*
- 19 **LRP1 MEDIATES BIDIRECTIONAL TRANSCYTOSIS OF AMYLOID-B ACROSS THE BLOOD-BRAIN BARRIER**
T. Pflanzner, M.C. Janko, B. Andre-Dohmen, S. Weggen, A.J.M. Roebroek, C.U. Pietrzik, *Germany, Belgium*
- 20 **THE ROLE OF THE APP COPPER BINDING DOMAIN IN REGULATING APP METABOLISM AND STRUCTURE**
L. Spoerri, L.J. Vella, C.L. Pham, K.J. Barnham, R. Cappai, *Australia*
- 21 **ACETYLCHOLINESTERASE REGULATES PRESENILIN-1 LEVELS AND METABOLISM OF THE ALZHEIMER'S AMYLOID PRECURSOR PROTEIN**
M.-X. Silveyra, M.-S. García-Ayllón, C. Serra-Basante, V. Mazzoni, M.-S. García-Gutierrez, J. Manzanares, J.G. Culvenor, J. Saez-Valero, *Spain, Australia*

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- 22 **ARE SUPPRESSOR OF CYTOKINE SIGNALING (SOCS) PROTEINS INVOLVED IN ALZHEIMER'S DISEASE**
D.G. Walker, J.C. Kruchowsky, L.-F. Lue, *USA*
- 23 **ALZHEIMER'S DISEASE AMYLOID B-PROTEIN MUTATIONS AND DELETIONS THAT DEFINE NEURONAL BINDING**
J.F. Poduslo, N.C. Olson, K.G. Howell, *USA*
- 24 **UNRAVELLING MICROGLIAL CELL PARTICIPATION IN ALZHEIMERS' DISEASE: AGING, TGFB AND MICROGLIAL DYSREGULATION**
R. von Bernhardi, P. Murgas, J. Tichauer, *Chile*
- 25 **DYNEIN DYSFUNCTION CAUSES INTRACELLULAR AB ACCUMULATION VIA ENDOCYTIC DISTURBANCE SUCH AS ENDOSOMAL ACCUMULATION OF APP**
N. Kimura, M. Inoue, S. Okabayashi, F. Ono, T. Negishi, *Japan*
- 26 **AB - INDUCED GLIAL ACTIVATION: A KEY ROLE FOR MICROGLIAL CELLS**
T. Heurtaux, S. Losciuto, G. Dorban, S. Gabel, E. Morga, P. Heuschling, *Luxembourg*
- 27 **PROLINE-RICH POLYPEPTIDE COMPLEX (PRP) AND IT'S NONAPEPTIDE FRAGMENT (NP) SHOW REGULATORY EFFECTS IN THE PATHWAY DEPENDS ON CYCLIC GMP IN PC 12 CELLS**
A. Zablocka, A. Urbaniak, M. Kuropatwa, J. Nowak, M. Janusz, *Poland*
- 28 **PROTECTIVE EFFECTS OF XANTHOCERASIDE ON PC12 CELL DAMAGE INDUCED BY HOMOCYSTEINE**
L.B. Zou, L.H. Wang, M. Wei, B.Z. Yang, X.F. Ji, Y. Wang, T.Y. Chi, *China*
- 29 **PROLINE-RICH POLYPEPTIDE COMPLEX (PRP) REGULATES ENZYMATIC ANTIOXIDANT SYSTEM IN WHOLE BLOOD CELLS**
A. Zablocka, M. Janusz, *Poland*
- 30 **NO CORRELATION BETWEEN LEVELS OF SECRETED B-AMYLOID, DYSREGULATION OF CELL CYCLE AND AGE OF ONSET OF ALZHEIMER'S DISEASE PATIENTS WITH DIFFERENT PRESENILIN1 FAD MUTATIONS**
E. Bialopiotrowicz, A. Szybinska, J. Kuznicki, U. Wojda, *Poland*
- 31 **HYPERTENSION-INDUCED B-AMYLOID DEPOSITION AND COGNITIVE IMPAIRMENT ARE MEDIATED THROUGH RAGE**
D. Carnevale, G. Mascio, I. D'Andrea, G. Cifelli, M. Madonna, I. Branchi, L. Minghetti, S.D. Yan, G. Lembo, *Italy, USA*
- 32 **ALZHEIMER'S ABETA1-42 PEPTIDE INDUCES AN UP-REGULATION OF NCX3 ACTIVITY THAT CONTRIBUTES TO CA²⁺ REFILLING INTO ENDOPLASMIC RETICULUM IN HIPPOCAMPAL NEURONS**
A. Pannaccione, C. D'Avanzo, A. Secondo, A. Esposito, P. Lippiello, R. Sirabella, P. Molinaro, F. Boscia, G. Di Renzo, L. Annunziato, *Italy*

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- 33 **REGULATION OF LIPID RAFTS BY TAU AND BETA-AMYLOID: IMPLICATIONS FOR ALZHEIMER'S DISEASE PATHOGENESIS**
A.F. Silva, G.S. Bloom, *USA*
- 34 **MODULATORY EFFECT OF CURCUMIN IN NEUROTOXICITY INDUCED BY ALUMINIUM CHLORIDE**
P.K. Sood, B. Nehru, *Biophysics, India*
- 35 **THE EFFECTS OF CHOLESTEROL AND FISH OIL DIETS ON APOE4 MICE FOLLOWING ENVIRONMENTAL ENRICHMENT**
Z. Kariv-Inbal, S. Yacobson, L. Broersen, T. Hartmann, D.M. Michaelson, *Israel, The Netherlands, Germany*
- 36 **SYNAPTIC PLASTICITY IN PARKINSON'S DISEASE AS REVEALED BY THE STUDY OF TRANS-SYNAPTIC CELL ADHESION MOLECULES**
L.-N. Hazrati, *Canada*
- 37 **STEROID RESPONSIVE CAMPTOCORMIA IN A PATIENT WITH PD SHOWING FOCAL MYOPATHIC ABNORMALITY OF THE PARASPINAL MUSCLES**
H.K. Song, *Republic of Korea*
- 38 **UNMYELINATED AXONS ARE MORE VULNERABLE TO DEGENERATION THAN MYELINATED AXONS OF THE CARDIAC NERVE IN PARKINSON'S DISEASE**
S. Orimo, T. Uchihara, A. Nakamura, K. Wakabayashi, A. Kakita, H. Takahashi, *Japan*
- 39 **AUTONOMIC DYSFUNCTION IN PARKINSON'S DISEASE AND RESTLESS LEGS SYNDROME, BUT NOT ESSENTIAL TREMOR**
E. Driver-Dunckley, J. Hentz, H. Shill, J. Caviness, M. Sabbagh, T. Beach, C. Adler, *USA*
- 40 **THE IONIC MECHANISM UNDERLYING THE PATHOLOGICALLY INCREASED BURST DISCHARGES IN THE SUBTHALAMIC NUCLEUS IN PARKINSON'S DISEASE**
Y.-C. Yang, C.-S. Huang, *Taiwan R.O.C.*
- 41 **OLFACTION IN PARKINSON DISEASE PATIENTS TAKING RASAGILINE: A CASE SERIES**
M. Alvarez, P. Grogan, *USA*
- 42 **A ROLE FOR ALTERED GCH1 EXPRESSION IN AUTOSOMAL DOMINANT DOPA-RESPONSIVE DYSTONIA AND IN IDIOPATHIC PARKINSON'S DISEASE**
J. Theuns, D. Crosiers, K. Nuytemans, B. Meeus, K. Sleegers, E. Corsmit, E. Elinck, K. Peeters, M. Mattheijssens, S. Engelborghs, B. Pickut, P. Cras, P.P. De Deyn, C. Van Broeckhoven, *Belgium*

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- 43 **RELATIONSHIP BETWEEN CEREBRAL PERFUSION AND PARKINSON'S DISEASE SUBTYPES**
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- 44 **LYSOSOMAL STORAGE DISORDERS AND PARKINSON'S DISEASE - IS GAUCHER DISEASE ONLY THE TIP OF THE ICEBERG?**
T. Shachar, A.H. Futerman, *Israel*
- 45 **DOES LEVODOPA ACCELERATE THE PATHOLOGICAL PROCESS IN PARKINSON'S DISEASE BRAIN?**
L. Parkkinen, S.S. O'Sullivan, M. Kuoppamäki, C. Collins, C. Kallis, J.L. Holton, D.R. Williams, T. Revesz, A.J. Lees, *UK, Finland, Australia*
- 46 **ANTIMICROBIAL USAGE PROVIDES CLUES TO A RIGIDITY-ASSOCIATED PATHOGENIC PATHWAY IN IDIOPATHIC PARKINSONISM (IP)**
S.M. Dobbs, A. Charlett, R.J. Dobbs, C. Weller, C. Smee, O. Iguodala, I.T. Bjarnason, D. Taylor, *UK*
- 47 **MODULATION OF ADENOSINE RECEPTORS IN PARKINSON'S DISEASE PATIENTS**
J.L. Albasanz Herrero, C.A. Castillo Sarmiento, D. León, M. Barrachina Castillo, I. Ferrer Abizanda, M. Martín López, *Spain*
- 48 **GLYCOGEN SYNTHASE KINASE 3B IN PARKINSON DISEASE INDUCED BY PARAQUAT**
M. Songin, A. Kaźmierczak, K. Ossowska, J.B. Strosznajder, *Poland*
- 49 **NEUROPSYCHOLOGICAL PROFILE OF PREMOTOR PHASE IN LRRK2 (R1441G AND G2019S) RELATED PARKINSON DISEASE**
A. Estanga, J. Ruiz-Martínez, M. Barandiaran, A. Gorostidi, A. Bergareche, A. López de Munain, J.F. Martí-Massó, *Spain*
- 50 **NEUROPSYCHOLOGICAL CONSEQUENCES OF THE LESION OF SUBTHALAMIC NUCLEUS IN PARKINSON'S DISEASE**
L. Alvarez, *Cuba*
- 51 **PROGRESSION OF GREY AND WHITE MATTER ABNORMALITIES IN EARLY PARKINSON'S DISEASE**
N. Ibarretxe-Bilbao, C. Junque, B. Segura, M.J. Martí, F. Valldoriola, N. Bargallo, E. Tolosa, *Spain*
- 52 **ALPHA-SYNUCLEIN IMPAIRS MACROAUTOPHAGY: IMPLICATIONS FOR PARKINSON'S DISEASE**
A.R. Winslow, C.-W. Chen, S. Corrochano, A. Acebedo-Arozena, D.E. Gordon, A.A. Peden, D.C. Rubinsztein, *UK*

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- 53 **DOPAMINE DYSREGULATION SYNDROME OBSERVED IN THREE PARKINSONIAN PATIENTS MANAGED BY STN-DBS**
K. Kimura, F. Yokochi, R. Okiyama, Y. Aoki, M. Taniguchi, T. Kawasaki, A. Isoo, K. Ishii, *Japan*
- 54 **REINNERVATION MECHANISMS IN PARKINSON'S DISEASE: ROLE OF APOLIPOPROTEIN E?**
D.M. Domenger, L. Moquin, A. Gratton, J. Poirier, *Canada*
- 55 **ABNORMAL LIPID COMPOSITION IN LIPID RAFTS FROM PARKINSON'S DISEASE FRONTAL CORTEX**
M. Díaz, N. Fabelo, V. Martín, G. Santpere, R. Marín, L. Torrent, I. Ferrer, *Spain*
- 56 **REDUCED NEUROGENESIS MAY CONTRIBUTE TO HIPPOCAMPAL ATROPHY IN PARKINSON'S DISEASE**
J. Zhang, K. Double, A. Gysbers, F. Carew-Jones, C. Shannon-Weickert, G. Halliday, *Australia*
- 57 **ESTROGEN AND ANGIOTENSIN INTERACTION IN THE SUBSTANTIA NIGRA. RELEVANCE TO POSTMENOPAUSAL PARKINSON'S DISEASE**
A.I. Rodríguez-Pérez, R. Valenzuela, B. Villar-Cheda, M.J. Guerra, J.L. Lanciego, J.L. Labandeira-García, *Spain*
- 58 **SUPPRESSION OF B-AMYLOID PRECURSOR PROTEIN BY NITRIC OXIDE MAY LEAD TO TOXIC NIGRAL IRON ACCUMULATION IN PARKINSON'S DISEASE**
S. Ayton, D. Finkelstein, R. Cherny, P. Adlard, A. Bush, *Australia*
- 59 **DETERMINANTS OF PARKIN-MEDIATED MITOPHAGY**
A. Pilsel, P.-H. Kuhn, A. Deinlein, V. Hampl, J. Tatzelt, K.F. Winklhofer, *Germany*
- 60 **TEMPORAL CORTICAL PHOSPHORYLATED A-SYNUCLEIN CONCENTRATION USEFUL FOR PREDICTING EARLY STAGES IN LEWY BODY DISORDERS**
L.-F. Lue, D.G. Walker, C.H. Adler, M.N. Sabbagh, T. Hung, L. Sue, H. Akiyama, J.N. Caviness, H. Shill, T.G. Beach, *USA, Japan*
- 61 **THE MOLECULAR, FUNCTIONAL AND STRUCTURAL PROPERTIES OF DOPAMINE MEDIATED ALPHA-SYNUCLEIN OLIGOMERS**
R. Cappai, S.L. Leong, M.G. Hinds, K.J. Barnham, C.L.L. Pham, *Australia*

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- 62 **SYNPHILIN-1 ENHANCES A-SYNUCLEIN AGGREGATION IN YEAST AND CONTRIBUTES TO A SIR2-DEPENDENT CELLULAR STRESS AND CELL DEATH**
V. Franssens, S. Büttner, C. Delay, T. Bammens, D. Ruli, S. Zaunschirm, R. Machado de Oliveira, T. Fleming Outeiro, F. Madeo, L. Buée, M.-C. Galas, J. Winderickx, *Belgium, Austria, France, Portugal*
- 63 **DETECTION OF A-SYNUCLEIN AGGREGATES BY FLUORESCENCE MICROSCOPY**
S. Huebinger, O. Bannach, A. Funke, D. Willbold, E. Birkmann, *Germany*
- 64 **MODIFYING ALPHA-SYNUCLEIN DIMERIZATION IN LIVING CELLS**
S. Gonçalves, T.F. Outeiro, Cell and Molecular Neuroscience Unit, *Portugal*
- 65 **REGULATION OF PROTEASOMAL PATHWAY OF DEGRADATION OF ALPHA-SYNUCLEIN BY SYNPHILIN-1**
B. Alvarez-Castelao, J.G. Castaño, *Spain*
- 66 **ALPHA-SYNUCLEIN IS EXOCYTOSED THROUGH THE REGULATED INTERACTIONS WITH RAB3 AND RAB3IP**
S. Kim, K.Y. Kim, Y.-H. Suh, *Republic of Korea*
- 67 **TRANSCRIPTIONAL REGULATION OF THE BETA-SYNUCLEIN PROMOTER**
P.C. McHugh, J.A. Wright, D.R. Brown, *UK*
- 68 **AFFINITY BINDING STUDIES OF A-SYNUCLEIN AND DERIVED PEPTIDES TO ANTI-A-SYNUCLEIN ANTIBODIES BY AN ONLINE COMBINATION OF SURFACE ACOUSTIC WAVE BIOSENSOR AND MASS SPECTROMETRY**
C. Vlad, S. Slamnoiu, M. Dragusanu, T. Ciossek, B. Hengerer, M. Przybylski, *Germany*
- 69 **LIFE SPAN AND LOCOMOTOR ACTIVITY MODIFICATION BY GLUCOSE AND POLYPHENOL DIET IN DROSOPHILA MELANOGASTER CHRONICALLY EXPOSED TO PARAQUAT: IMPLICATIONS IN PARKINSON'S DISEASE**
M. Jimenez-Del-Rio, H.F. Ortega-Arellano, C. Velez-Pardo, *Colombia*
- 70 **MICROGLIAL ACTIVATION AND NIGROSTRIATAL NEURONAL DEATH FOLLOWING CHRONIC DICHLORVOS EXPOSURE IN RAT**
B.K.B. Kumar, K.D. Gill, A.J. Bal, *India*
- 71 **IGF-1 INDUCED SURVIVAL ASTROCYTES, AND PROTECTS MPP⁺-INDUCED DEPAMINERGIC NEURODEGENERATION**
T. Watanabe, *Japan*

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- 72 **DOPAMINE D₁R ACTIVATION MODULATES INTRACELLULAR SIGNALLING AND TRIGGERS ERK1/2 ACTIVATION IN STRIATAL NEURONS THROUGH THE INTERACTION WITH THE PROTEIN TYROSINE PHOSPHATASE SHP-2**
P. Savoia, C. Fiorentini, C. Mattanza, G. Collo, P. Spano, C. Missale, *Italy*
- 73 **AGING-RELATED CHANGES IN THE NIGRAL ANGIOTENSIN SYSTEM ENHANCES PROINFLAMMATORY AND PRO-OXIDATIVE MARKERS AND 6-OHDA-INDUCED DOPAMINERGIC DEGENERATION**
B. Villar-Cheda, R. Valenzuela, A.I. Rodriguez-Perez, M.J. Guerra, J.L. Labandeira-Garcia, *Spain*
- 74 **DISSECTING THE ROLE OF ALPHA-SYNUCLEIN IN DOPAMINE BIOLOGY USING HUMAN DOPAMINERGIC CELL MODELS**
L. Lourenco Venda, J. Alegre, M. Lufino, S. Senior, S. Cragg, R. Wade-Martins, *UK*
- 75 **AN UNSTRUCTURED PROTEIN WITH DESTRUCTIVE POTENTIAL: TPPP/P25 IN PARKINSON'S DISEASE**
J. Ovádi, *Hungary*
- 76 **THE ROLE OF NORADRENERGIC CEREBELLAR INNERVATION IN THE TREMOR INDUCED BY HARMALINE**
K. Ossowska, K. Kuter, W. Kolasiewicz, P. Nowak, *Poland*
- 77 **THE INFLUENCE OF THE LESION OF NORADRENERGIC CEREBELLAR INNERVATION ON CEREBRAL SEROTONERGIC SYSTEMS: A POTENTIAL ROLE IN THE HARMALINE-INDUCED TREMOR**
K. Kuter, W. Kolasiewicz, P. Nowak, K. Ossowska, *Poland*
- 78 **SUBCUTANEOUS INJECTION OF CYTOKINE MIXTURE IL-3 AND GM-CSF PREVENT 6-OHDA-INDUCED DEGENERATION OF DOPAMINERGIC NEURONS IN THE SUBSTANTIA NIGRA**
M.E. Choudhury, M. Kubo, N. Nishikawa, M. Nagai, K. Sugimoto, H. Takahashi, H. Yano, J. Tanaka, M. Nomoto, *Japan*
- 79 **UPREGULATION OF ALZHEIMER-ASSOCIATED PROTEINS APOE AND LRP1 IN MELANIZED NEURONS COINCIDES WITH MICROGLIAL ACTIVATION IN SUBSTANTIA NIGRA IN INCIDENTAL LEWY BODY- AND PARKINSON'S DISEASE**
B. Drukarch, J. Hoozemans, J. Bol, A. Rozemuller, M. Wilhelmus, *The Netherlands*
- 80 **THE ALPHA-SYNUCLEIN A30P-MUTATION NEGATIVELY AFFECTS REGENERATION OF DOPAMINERGIC NEURONS**
L. Toenges, P. Roszak, E. Szegoe, J.C. Koch, C.P. Dohm, P. Kermer, S. Kuegler, M. Baehr, P. Lingor, *Germany*

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- 81 **OVEREXPRESSION OF PINK1 PROTECTS CAD CELL AGAINST C2-CERAMIDE:RELATIONSHIP WITH MITOCHONDRIAL FUNCTION AND THE PI3K/AKT PATHWAY**
R.M. Sanchez, M.J. Contreras, J. Jaramillo, H. Arboleda, G. Arboleda, Neurosciences and Cell Death, *Colombia*
- 82 **A NOVEL VARIANT OF G-SUBSTRATE, A NEUROPROTECTIVE PHOSPHATASE INHIBITOR IN DOPAMINERGIC NEURONS**
M.O. Vigbedor, *UK*
- 83 **ALPHA SYNUCLEIN DISRUPTS ER/ GOLGI CA²⁺ HOMEOSTASIS IN A YEAST MODEL FOR PARKINSON'S DISEASE**
L. Faes, P. D'hooge, N. Meirschaeft, V. Franssens, J. Winderickx, G. Callewaert, *Belgium*
- 84 **LOCATION OF PRORENIN RECEPTORS IN PRIMATE SUBSTANTIA NIGRA. EFFECTS ON DOPAMINERGIC CELL DEATH**
R. Valenzuela, P. Barroso-Chinea, B. Villar-Cheda, B. Joglar, A. Muñoz, J.L. Lanciego, J.L. Labandeira-Garcia, *Spain*
- 85 **PARKINSON'S DISEASE AND MITOCHONDRIAL FUNCTION: THE ROLE OF PINK1 IN REGULATING COMPLEX I ACTIVITY**
V.A. Morais, K. Craessaerts, A. Snellinx, L. Overbergh, A.O. Helbig, A.J.R. Heck, W. Mandemakers, W. Wurst, P. Verstreken, B. De Strooper, *Belgium, The Netherlands, Germany*
- 86 **L-DOPA TREATMENT REDUCES PLASMA CONCENTRATIONS OF PYRIDOXAL PHOSPHATE (VITAMIN B6) AND DECREASES BRAIN SEROTONIN METABOLISM IN THE MOUSE: IMPLICATIONS FOR VITAMIN B6 DEPENDENT ENZYMES**
E. Arning, B. Wasek, M. Williams, E. Sontag, T. Bottiglieri, *USA, Australia*
- 87 **ALPHA SYNUCLEIN MODULATES THE EXPRESSION OF NOTCH1 THROUGH A P53-DEPENDENT MECHANISM IN ADULT RAT HIPPOCAMPAL STEM CELLS:IMPLICATIONS FOR NEUROGENESIS IN PARKINSON'S DISEASE**
P. Desplats, S. Roberts, P. Patel, B. Spencer, D. Friedmann-Morvinski, C. Patrick, B. Winner, J. Winkler, E. Masliah, *USA, Germany*
- 88 **GPR6 DEFICIENCY INCREASES MOTOR ACTIVITY AND ALTERS STRIATAL DOPAMINE AND CAMP LEVELS IN MICE**
P. Oeckl, B. Hengerer, B. Fergner, *Germany*
- 89 **ISOLATION AND CHARACTERIZATION OF PORCINE *FBXO7***
K. Larsen, C. Bendixen, *Denmark*

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- 91 **DJ-1 PROTECTS AGAINST NEUROTOXIN-INDUCED INHIBITION OF THE PI3K/AKT PATHWAY IN A MODEL OF MESENCEPHALIC NEURONS**
J. Jaramillo, R.M. Sanchez, H. Arboleda, G. Arboleda, Neuroscience and Cell Death Research Group, *Colombia*
- 92 **IDENTIFICATION AND CHARACTERISATION OF A-SYNUCLEIN PROTEOLYTIC FRAGMENTS RELATED TO PARKINSON'S DISEASE USING AFFINITY- AND ION-MOBILITY MASS SPECTROMETRY**
C. Vlad, N. Tomczyk, J. Rontree, B. Hengerer, T. Ciossek, M. Przybylski, *Germany, UK*
- 93 **OSTEOPONTIN INTERACTS WITH PROTEINS INVOLVED IN APOPTOSIS, PROTEOLYSIS AND MICROTUBULE STABILITY - A POSSIBLE NEUROPROTECTIVE ROLE IN PARKINSON'S DISEASE**
P. Long, S. Rose, P. Jenner, *UK*
- 94 **THE ROLE OF ALPHA-SYNUCLEIN IN PARKINSON'S DISEASE**
D. Moualla, P. Davies, D. Brown, *UK*
- 95 **MODULATION OF PARKIN E3 LIGASE ACTIVITY WITH SMALL MOLECULES**
J.A. Johnston, L. Ngyuen, M. Velasquez, M. Bova, C. Cutcliffe, B. Szoke, T. Hui, A. Garofalo, *USA*
- 96 **ALLEVIATING PARKINSON'S DISEASE SYMPTOMS USING CHEMICAL CHAPERONES**
M. Frenkel-Pinter, R. Shaltiel-Karyo, M. Levy, E. Gazit, D. Segal, *Israel*
- 97 **MIR-124 PROMOTES NEURONAL DIFFERENTIATION OF ADULT BONE-MARROW DERIVED MESENCHYMAL STEM CELLS BY DOWNREGULATING THE ANTI-NEURAL REST/SCP1 PATHWAY**
H.K. Lee, S. Finnis, C. Xiang, S. Cazacu, N. Kronfeld, S. Slavin, C. Brodie, *USA, Israel*
- 98 **DECREASED ANXIETY-LIKE BEHAVIOR AND ATTENUATED RESPONSE TO METHAMPHETAMINE IN A-SYNUCLEIN BAC TRANSGENIC MICE RECAPITULATE EARLY NON-MOTOR SYMPTOMS IN PARKINSON'S DISEASE**
H. Yamakado, Y. Moriwaki, N. Yamasaki, T. Miyakawa, M. Takahashi, R. Takahashi, *Japan*
- 99 **DOPAMINE AGONISTS IN ANIMAL MODELS OF PARKINSON'S DISEASE: A SYSTEMATIC REVIEW AND META-ANALYSIS**
H.M. Vesterinen, E.D. Rooke, E.S. Sena, K.J. Egan, M.R. Macleod, *UK*

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- 100 **PARKIN IS TRANSCRIPTIONALLY REGULATED BY ATF4: EVIDENCE FOR AN INTERCONNECTION BETWEEN MITOCHONDRIAL STRESS AND ER STRESS**
L. Bouman, A. Schlierf, A.K. Lutz, J. Shan, A. Deinlein, Z. Galehdar, V. Palmisano, N. Patenge, D. Berg, T. Gasser, R. Augustin, D. Trümbach, I. Irrcher, D.S. Park, W. Wurst, M.S. Kilberg, J. Tatzelt, **K.F. Winklhofer**, *Germany, USA, Canada*
- 101 **DEMENTIA WITH LEWY BODY: INVESTIGATION OF GENETIC FACTORS IN FOUR FAMILIES**
M.R. Almeida, J. Domingues, A. Rodrigues, B. Santiago, I. Santana, *Portugal*
- 102 **A DISTINCT PATTERN OF CORTICAL THICKNESS CHARACTERIZE DEMENTIA WITH LEWY BODIES AND ALZHEIMER'S DISEASE**
D. Paternicò, M. Pievani, S. Galluzzi, G.B. Frisoni, *Italy*
- 103 **CSFLEVELS OF OREXIN AND A-SYNUCLEIN ARE LINKED IN DLB PATIENTS AND ELDERLY CONTROLS**
M. Wennström, E. Londos, L. Minthon, **H.M. Nielsen**, *Sweden*
- 104 **FP-CIT SPECT IN THE DIAGNOSIS OF POSSIBLE LEWY BODY DEMENTIA WITHOUT PARKINSONISM - REPORT OF THREE CASES**
D. Bittner, V. Bittner, M. Thormann, A. Holger, H.-J. Heinze, N. Müller, *Germany*
- 105 **SUPEROXIDE DISMUTASE 2 IN HUMAN BRAIN: A MARKER FOR MITOCHONDRIA AND MITOCHONDRIAL DYSFUNCTION IN DEMENTIA WITH LEWY BODIES AND PARKINSON'S DISEASE**
J.H.T. Power, O.L. Barnes, *Australia*
- 106 **BUTYRYLCHOLINESTERASE GENOTYPE COMBINATIONS AS A SPECIFIC MARKER FOR CLINICAL DIAGNOSIS OF DEMENTIA WITH LEWY BODIES**
K. Beyer, M. Domingo-Sabat, P. Latorre, L. Ispierto, R. Alvarez, A. Ariza, *Spain*
- 107 **PEROXIREDOXIN 4 IS LOCALISED TO THE NEURONAL ENDOPLASMIC RETICULUM IN HUMAN BRAIN AND ASSOCIATED WITH LEWY BODY FORMATION IN DEMENTIA WITH LEWY BODIES AND PARKINSON'S DISEASE**
J.H.T. Power, L.J. Turnbull, *Australia*
- 108 **A BETA-SYNUCLEIN MUTATION LINKED TO FAMILIAL DEMENTIA WITH LEWY BODIES PRODUCES NEURODEGENERATION WHEN EXPRESSED IN MOUSE BRAIN**
M. Fujita, K. Sekiyama, A. Sekigawa, Y. Takamatsu, E. Rockenstein, E. Masliah, M. Hashimoto, *Japan, USA*

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- 109 **HIPPOCAMPAL SHAPE DIFFERENCES IN SUBTYPES OF FRONTOTEMPORAL LOBAR DEGENERATION AND ALZHEIMER'S DISEASE**
O.E. Lindberg, M. Walterfang, N. Malykhin, J.C.L. Looi, L.-O. Wahlund, Sweden, Australia, Canada
- 110 **SIMPLE VISUAL RATING OF LOBAR ATROPHY IN THE DIAGNOSIS OF FRONTOTEMPORAL DEMENTIA**
C. Bocti, M.-E. Girard, F.-Q. Gao, S.E. Black, Canada
- 111 **A NEW INSIGHT INTO PSYCHIATRIC DISORDERS AND DEMENTIA**
A.G. Diaconeasa, C. Ghita, I. Turcu, L. Spiru, Romania
- 112 **NEXT GENERATION SEQUENCING OF CHROMOSOME 9 LOCUS IN FTD-ALS PEDIGREE FROM THE NETHERLANDS**
J. Simón-Sánchez, P. Heutink, J. van Swieten, I. Jansen, The Netherlands
- 113 **FRONTAL AND POSTERIOR CINGULATE METABOLIC IMPAIRMENT IN FRONTOTEMPORAL LOBE DEGENERATION WITH IMPAIRED AUTONOMIC CONSCIOUSNESS**
C. Bastin, D. Feyers, C. Souchay, B. Guillaume, J.-L. Pepin, C. Lemaire, C. Degueldre, F. Collette, E. Salmon, Belgium, UK
- 114 **MODELING TDP-43 PROTEINOPATHIES IN MICE**
D. Medina, A. Caccamo, S. Majumder, A. Magri, S. Oddo, USA
- 115 **MSUT2 PROTEIN IS A DETERMINANT OF SUSCEPTIBILITY TO TAU TOXICITY**
C. Guthrie, J. Leverenz, B. Kraemer, USA
- 116 **ACCELERATED HUMAN MUTANT TAU AGGREGATION BY KNOCKING OUT MURINE TAU IN A TRANSGENIC MOUSE MODEL**
K. Ando, K. Leroy, C. Héraud, Z. Yilmaz, M. Authelet, V. Suain, R. Dedecker, J.-P. Brion, Belgium
- 117 **GENETIC ANALYSIS AND TRANSCRIPTOME SEQUENCING OF TDP-43 MUTANTS IN *DROSOPHILA***
B. Dermaut, L. Vanden Broeck, G. Kleinberger, M. Naval, F. Hirth, C. Van Broeckhoven, S. Aerts, P. Callaerts, Belgium, UK
- 118 **RESCUE OF PROGRANULIN DEFICIENCY ASSOCIATED WITH FRONTOTEMPORAL LOBAR DEGENERATION BY ALKALIZING REAGENTS AND INHIBITION OF VACUOLAR ATPASE**
A. Capell, K. Fellerer, S. Liebscher, N. Brouwers, C. Lang, M. Cruts, C. Van Broeckhoven, C. Haass, Germany, Belgium

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- 119 **A WORM MODEL OF TAUOPATHY**
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- 120 **HOMEOSTATIC SYNAPTIC SCALING DURING PROGRESSIVE PATHOLOGY IN CORTICAL PYRAMIDAL CELLS OF TAU MUTANT MICE**
J.L. Crimins, A.B. Rocher, J. Lewis, J.I. Luebke, *USA*
- 121 **EXPRESSION OF PRP^C IS REQUIRED FOR THE AB-MEDIATED IMPAIRMENT OF SYNAPTIC PLASTICITY**
D. Freir, A. Nicoll, J. McDonald, J. Collinge, D. Walsh, *Ireland, UK*

AMYOTROPHIC LATERAL SCLEROSIS

- 122 **LIVE IMAGING OF MITOCHONDRIAL DYNAMICS IN AMYOTROPHIC LATERAL SCLEROSIS**
J. Magrane, G. Manfredi, *USA*
- 123 **CT IMAGING IN ADVANCED AMYOTROPHIC LATERAL SCLEROSIS**
C. Watanabe, T. Makino, M. Higaki, N. Horie, S. Katayama, *Japan*
- 124 **G41S SOD1 RECURRENT MUTATION IN A LARGE POLISH ALS FAMILY**
M. Berdyski, M. Kuzma-Kozakiewicz, H. Kwieciński, M. Barcikowska, C. Zekanowski, *Poland*
- 125 **SENSORIMOTOR FUNCTIONAL CONNECTIVITY CHANGES IN AMYOTROPHIC LATERAL SCLEROSIS**
L. Sarro, F. Agosta, P. Valsasina, M. Absinta, N. Riva, S. Sala, A. Prella, M. Copetti, M. Comola, G. Comi, M. Filippi, *Italy*
- 126 **OPTINEURIN IN NEURODEGENERATIVE DISEASES**
Y. Mizuno, T. Osawa, Y. Fujita, M. Takatama, Y. Nakazato, K. Okamoto, *Japan*
- 127 **TDP-43 PROCESSING IS MODULATED BY C-JUN N-TERMINAL KINASE AND COPPER: IMPLICATIONS FOR THERAPEUTIC TREATMENT OF TDP-43 PROTEINOPATHIES**
J. Meyerowitz, S. Parker, C. Soon, Q.-X. Li, C.L. Masters, K.J. Barnham, P.S. Donnelly, P.J. Crouch, **A.R. White**, *Australia*
- 128 **BEHAVIORAL, BIOCHEMICAL AND HISTOLOGICAL ANALYSIS OF TRANSGENIC TDP-43 MICE**
T. Läufer, T. Welt, J. McAfoose, R. Naumann, R.M. Nitsch, M. Neumann, *Switzerland, Germany*
- 129 **INVESTIGATING THE ROLE OF TDP-43 IN THE PATHOGENESIS OF ALS AND FTD IN A *DROSOPHILA* MODEL**
J.M. Gregory, S. Meehan, C.M. Dobson, L.M. Luheshi, *UK*

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- 130 **EXPRESSION OF TDP-43 CAUSES NEUROLOGICAL PHENOTYPES WITH AN ENHANCEMENT BY FALS MUTATIONS IN NOVEL *DROSOPHILA* MODELS OF ALS**
N. Fujikake, Y. Saitoh, A. Yokoseki, O. Onodera, K. Wada, Y. Nagai, *Japan*

MULTIPLE SYSTEMS ATROPHY

- 131 **DISREGULATION OF IRON STORAGE IN MULTIPLE SYSTEMS ATROPHY**
N.P. Visanji, J.F. Collingwood, M. Finnegan, E. House, A. Tandon, L.-N. Hazrati, *Canada, UK*
- 132 **DETERMINING THE SOURCE OF ELEVATED IRON CONCENTRATIONS IN THE HUMAN PONS IN NEURODEGENERATIVE DISORDERS**
M. Finnegan, J.F. Collingwood, N. Visanji, E. House, M.R. Lees, V. Antharam, A. Mikhailova, J. Dobson, L.-N. Hazrati, *UK, USA, Canada*
- 133 **ABNORMAL ELECTROMYOGRAPHY IN MULTISYSTEM ATROPHY (MSA)**
M. Gawel, Z. Jamrozik, E. Szmidska-Salkowska, J. Slawek, *Poland*
- 134 **COGNITIVE IMPAIRMENTS IN MULTIPLE SYSTEM ATROPHY OF THE CEREBELLAR TYPE**
J.E. Lee, P.H. Lee, H.J. Hong, Y.H. Sohn, *Republic of Korea*
- 135 **ALTERED MIRNA EXPRESSION AS A BIOMARKER IN MULTIPLE SYSTEMS ATROPHY AND MODELS OF SYNUCLEINOPATHY**
K. Ubhi, P. Desplats, S. Michael, C. Inglis, M. Mante, E. Rockenstein, D. Galasko, E. Masliah, *USA*
- 136 **URIC ACID AS A POTENTIAL DISEASE MODIFIER IN PATIENTS WITH MULTIPLE SYSTEM ATROPHY**
J.E. Lee, P.H. Lee, Y.H. Sohn, S.K. Song, *Republic of Korea*
- 137 **PAIN IN PATIENTS WITH PARKINSON'S DISEASE AND MULTIPLE SYSTEM ATROPHY: RELATIONSHIP TO MOOD AND ILLNESS PERCEPTION**
C. Kobylecki, K. McDonald, A. Gerhard, E. Poliakoff, M. Silverdale, *UK*

CEREBRAL AMYLOID ANGIOPATHY

- 138 **MRI MANIFESTATION AND APOE TEST IN 4 CEREBRAL AMYLOID ANGIOPATHY CASES WITH DEMENTIA**
Y. Li, J. Wang, Z. Zhang, *China*
- 139 **DEVELOPMENT OF NANOTHERANOSTICS TO DIAGNOSE AND TREAT CEREBRAL AMYLOID ANGIOPATHY**
K. Kandimalla, E. Agyare, G. Curran, S. Grant, J. Poduslo, *USA*
- 140 **ROLE OF SSAO/VAP-1 IN THE VASCULAR OXIDATIVE DAMAGE AND INFLAMMATION IN ALZHEIMER'S DISEASE (AD) AND CEREBRAL AMYLOID ANGIOPATHY (CAA)**
M. Solé, M. Unzeta, *Spain*

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- 141 **MULTIPOTENT DRUGS WITH CHOLINERGIC AND NEUROPROTECTIVE PROPERTIES FOR THE TREATMENT OF ALZHEIMER'S AND NEURONAL VASCULAR DISEASES**
C. Figueiredo, D.B. Silva, E. Mendes, **M.C. Carreiras**, M. Chioua, M.L. Jimeno, R. Léon, C. de los Ríos, M. Bartolini, V. Andrisano, A. Romero, A. Samadi, M. Villarroaya, M. López, J. Marco-Contelles, *Portugal, Spain, Italy*
- 142 **CEREBRAL AMYLOID ANGIOPATHY, BLOOD-BRAIN BARRIER DISRUPTION AND AMYLOID ACCUMULATION IN SAMP8 MICE**
J. del Valle, J. Duran-Vilaregut, G. Manich, M. Pallàs, A. Camins, J. Vilaplana, **C. Pelegrí**, *Spain*

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- 143 **TOWARDS A PHENOTYPIC CHARACTERIZATION OF ARGYROPHILIC GRAIN DISEASE**
A. Rabano, I. Santa-María, C. Guerrero, R. Cuadros, A.B. Rebolledo, O. Calero, M. Calero, A. Kun, J. Avila, *Spain, Uruguay*
- 144 **LIGHT CHAIN FERRITIN: A POTENTIAL NEW MARKER FOR THE DIFFERENTIAL DIAGNOSIS OF CBD AND PSP**
D. Sevlever, J. Kulathingal, E. Abdul Shukkur, M. Castanedes-Casey, D. Dickson, S.-H. Yen, *USA*
- 145 **A COMPARATIVE ANALYSIS OF SPINAL CORD PATHOLOGY IN 4R-TAUOPATHIES: PPND, PSP AND CBD**
K. Markopoulou, J. Slowinski, D.W. Dickson, Z.K. Wszolek, *USA, Greece, Poland*
- 146 **IDENTIFYING CHANGES IN CALCIUM-REGULATED PROTEINS IN AD AND RELATED TAUOPATHIES**
J. Atherton, M. Bondulich, D. Hanger, W. Noble, MRC Centre for Neurodegeneration Research, *UK*
- 147 **INFLAMMATORY PROCESSES IN THE THY-TAU22 MODEL OF AD-LIKE TAU PATHOLOGY: A GENE EXPRESSION PROFILING STUDY**
C. Laurent, A. Leboucher, L. Troquier, M. Figeac, S. Burnouf, J. Desmercierres, R. Caillierez, N. Zommer, D. Demeyer, M. Hamdane, **L. Buee**, D. Blum, *France*
- 148 **INTERNEURONAL SPREADING OF TAU PATHOLOGY INVOLVES DENDRITIC TAU TRANSPORT, LOCALIZED MT LOSS AND SECRETION IN ASSOCIATION WITH FYN-POSITIVE VESICLES AND LC3 ACTIVATION**
G.F. Hall, S. Lee, *USA*

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- 149 **BEHAVIORAL DEFICITS OF A MUTATED HUMAN TAU OVER-EXPRESSING MOUSE**
R. Rabl, A. Molnar, S. Duller, D. Jud, D. Havas, B. Hutter-Paier, M. Windisch, *Austria*
- 150 **MEASURING OLIGOMERISATION OF TAU HETEROLOGOUSLY EXPRESSED IN YEAST MODELS FOR TAUOPATHIES**
J. Van den Brande, D. Jacobs, P. Grognet, E. Vanmechelen, J. Winderickx, *Belgium*
- 151 **PROTEIN TAU, TARGET FOR IMMUNOTHERAPY: PRE-CLINICAL EVALUATION IN TRANSGENIC MICE**
C. Theunis, N. Crespo Biel, P. Borghgraef, H. Devijver, V. Gafner, M. Philgren, D.T. Hickman, N. Chuard, M.P. Lopez Deber, P. Reis, A.L. Buccarello, O. Adolfsson, A. Pfeifer, A. Muhs, F. Van Leuven, *Belgium, Switzerland*

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- 152 **AMYLOID-B OLIGOMER PRECIPITATING SUBSTANCES FOR TREATMENT OF ALZHEIMER'S DISEASE**
S.A. Funke, T. van Groen, I. Kadish, D. Bartnik, O. Brener, L. Nagel-Steger, J. März, T. Schrader, A.H.C. Horn, H. Sticht, A. Müller-Schiffmann, C. Korth, D. Willbold, *Germany, USA*
- 153 **D3 - AN ORALLY APPLICABLE AND POTENT AB OLIGOMER NEUTRALIZING SUBSTANCE**
S.A. Funke, T. van Groen, I. Kadish, D. Bartnik, O. Brener, L. Nagel-Steger, A.H.C. Horn, H. Sticht, D. Willbold, *Germany, USA*
- 154 **IDENTIFICATION OF SPECIFIC AMYLOID-B BINDING D-PEPTIDES USING MIRROR IMAGE PHAGE DISPLAY**
Y. Cinar, S.A. Funke, D. Willbold, *Germany*
- 155 **CAPTURING AND MACROPHAGE-AIDED CLEARANCE OF AMYLOID BETA BY SURFACE MODIFIED PROTEINACEOUS PARTICLES**
S. Rahimipour, M. Richman, *Israel*
- 156 **COMBINING INDEPENDENT DRUG CLASSES INTO SUPERIOR HYBRID MOLECULES TARGETING ABETA OLIGOMERS**
A. Müller-Schiffmann, J. Maerz-Berberich, A. Andreyeva, R. Roenicke, D. Bartnik, O. Brener, A.H.C. Horn, M. Hellmert, J. Polkowska, K. Gottmann, K.G. Reymann, S.A. Funke, L. Nagel-Steger, C. Moriscot, G. Schoehn, H. Sticht, D. Willbold, T. Schrader, C. Korth, *Germany, France*
- 157 **SMALL MOLECULE INHIBITORS OF BETA-AMYLOID OLIGOMER TOXICITY**
P. Paganetti, P. Benderitter, O. Hamel, H. Kroth, W. Fröstl, D. Hickman, P. Lopez, R. Madani, C. Nampally, M. Pihlgren, A. Plassard, Y. Varisco, A. Pfeifer, A. Muhs, *Switzerland*

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- 158 **STABILIZATION OF NEUROTOXIC ALZHEIMER AMYLOID-BETA OLIGOMERS BY PROTEIN ENGINEERING**
T. Härd, *Sweden*
- 159 **STUDIES OF PHTHALOCYANINES WITH OUT-PLANED LIGANDS AS INHIBITORS OF AMYLOID FIBRILS FORMATION**
V.B. Kovalska, K. Volkova, V. Chernii, M. Losytskyy, I. Tretyakova, S. Yarmoluk, S. Volkov, *Ukraine*
- 160 **NEUROPHAGE'S NPT001 REDUCES AMYLOID PLAQUE LOAD, INCREASES SYNAPTOPHYSIN AND IMPROVES FUNCTIONAL ENDPOINTS IN A MOUSE MODEL OF ALZHEIMER'S DISEASE**
K.S. Gannon, E. Rockenstein, M.R. Azar, R. Fisher, E. Masliah, *USA*
- 161 **PSEN1 BUT NOT APP MUTATIONS PRESENT IN MOUSE MODELS OF ALZHEIMER'S DISEASE ATTENUATE THE RESPONSE OF CELLS TO GAMMA-SECRETASE MODULATORS REGARDLESS OF POTENCY AND STRUCTURE**
S. Hahn, T. Brüning, J. Ness, E. Czirr, S. Baches, H. Gijssen, C. Korh, C.U. Pietrzik, B. Bulic, S. Weggen, *Germany, Belgium*
- 162 **SELF-ASSEMBLED CYCLIC D, L-ALPHA-PEPTIDE NANOTUBES AS NOVEL ANTI-AMYLOIDOGENIC SCAFFOLDS**
S. Wilik, M. Richman, S. Rahimpour, *Israel*
- 163 **MODULATION OF PP2A ACTIVITY BY A COMPONENT OF COFFEE IS BENEFICIAL IN MODELS OF ALZHEIMER'S DISEASE**
J.B. Stock, M. Voronkov, J. Fernandez, D.N. He, D.C. Lo, S.P. Braithwaite, *USA*
- 164 **GSK-3 INHIBITORS AS NEW LEADS FOR PARKINSON'S DISEASE PHARMACOTHERAPY**
C. Susin, J.A. Morales-Garcia, D.I. Perez, S. Conde, C. Gil, A.M. Perez-Castillo, A. Martinez, *Spain*
- 165 **TIDEGLUSIB (NP031112) DOES NOT SHOW MUTAGENIC POTENTIAL IN A BATTERY OF *IN VITRO* AND *IN VIVO* MODELS FOR GENOTOXIC ASSESSMENT**
N. Fabre, I. Anglade, T. Nadal, J.A. Vericat, *Spain*
- 166 **INHIBITION OF O-GLCNACASE MITIGATES MOTOR AND BREATHING DEFECTS AND PROLONGS SURVIVAL OF TAU-P301L MICE**
P. Borghgraef, C. Menuet, H. Devijver, L. Gielis, H. Gijssen, D. Moechars, G. Hilaire, F. Van Leuven, *Belgium, France*
- 167 **PROTEIN PHOSPHATASE 2A MODULATION IS DISEASE MODIFYING IN TRANSGENIC AND PHARMACOLOGICAL MODELS OF PARKINSON'S DISEASE**
S.P. Braithwaite, K.W. Lee, E. Junn, H. Grosso, X. Feng, M. Voronkov, M.M. Mouradian, J.B. Stock, *USA*

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- 168 **A FRET-BASED HIGH-THROUGHPUT DRUG SCREEN TARGETING DYSREGULATED INTRACELLULAR CALCIUM SIGNALING IN ALZHEIMER'S DISEASE**
K. Honarnejad, A. Szybinska, J. Kuznicki, J. Herms, *Germany, Poland*
- 169 **TRANSPORT OF POTENTIALLY THERAPEUTIC COPPER COMPLEXES ACROSS CELL MEMBRANES**
K. Price, S.C. Lim, B. Paterson, A. Caragounis, I. Volitakis, R. Cherny, C. Masters, K. Barnham, P. Donnelly, P. Crouch, A. White, *Australia*
- 170 **THE PROFOUND THERAPEUTIC EFFECT OF EXOGENOUS HSP70 ON ALZHEIMER'S TYPE DEGENERATION IN OLFACTORY BULBECTOMIZED MICE**
N. Bobkova, I. Guzhdova, B. Margulis, I. Nesterova, N. Medvedinskaya, A. Samokhin, I. Alexandrova, V. Yashin, D. Garbuz, V. Karpov, M. Evgen'ev, E. Nudler, *Russia, USA*
- 171 **DISCOVERY OF 6-HYDROXY-1-AZA-9-OXAFLUORENES AS LEAD STRUCTURES FOR THE DEVELOPMENT OF NOVEL ALZHEIMER THERAPEUTICS**
V. Tell, B. Voigt, G. Erlenkamp, W. Sippl, M. Holzer, C. Schächtele, F. Totzke, A. Hilgeroth, Research Group of Drug Development and Analysis, *Germany*
- 172 **NFAT/FAS-SIGNALING MEDIATES APOPTOSIS AND NEUROLOGICAL SIDE-EFFECTS OF GSK-3-INHIBITION IN A MOUSE MODEL OF LITHIUM THERAPY**
R. Gomez-Sintes, J.J. Lucas, *Spain*
- 173 **ATTENUATION OF LPS-INDUCED APOPTOSIS IN NGF-DIFFERENTIATED PC12 CELLS VIA NF-KB PATHWAY AND REGULATION OF CELLULAR REDOX STATUS BY AN OXAZINE DERIVATIVE**
N. Ansari, F. Khodagholi, M. Amini, F. Shaerzadeh, *Iran*
- 174 **IDENTIFICATION OF NATURAL POLYPHENOLS AND EXTRACTS ACTING AS INHIBITORS OF AMYLOID-BETA (AB₁₋₄₂) DERIVED CELLULAR DAMAGE**
C. Scerri, N. Vassallo, R. Cremona, *Malta*
- 175 **STATINS AS NEUROPROTECTANTS: A COMPARATIVE IN VITRO STUDY OF LIPOPHILICITY, BLOOD-BRAIN-BARRIER PENETRATION, LOWERING OF BRAIN CHOLESTEROL AND NEUROPROTECTION**
S. Sierra, M.C. Ramos, P. Molina, C. Esteo, J.A. Vázquez, J.S. Burgos, *Spain*

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- 176 **NEUROPROTECTIVE COPPER AND ZINC-COMPLEXES INCREASE NEURITE ELONGATION IN NEURONAL CELL CULTURES**
L. Bica, P.S. Donnelly, K.J. Barnham, P.A. Adlard, D. Finkelstein, C.L. Masters, R. Cappai, P.J. Crouch, A.R. White, *Australia*
- 177 **PROTECTIVE EFFECT OF THE MAO-B INHIBITOR PF9601N IN A MICRODIALYSIS MODEL OF EXCITOTOXICITY**
I. Bolea, M.A. Colivicchi, C. Ballini, M. Fattori, J.L. Marco-Contelles, M. Unzeta, L. Della Corte, *Spain, Italy*
- 178 **SCREENING FOR INHIBITORS OF ALPHA-SYNUCLEIN AGGREGATION AND TOXICITY AS A POTENTIAL NOVEL DRUG FOR PARKINSON'S DISEASE**
M. Ardah, O.M. El-Agnaf, *United Arab Emirates*
- 179 **5HT6 ANTAGONISM ENHANCES SYNAPSE DENSITY IN THE HIPPOCAMPAL DENTATE GYRUS AND AMELIORATES ABETA-INDUCED COGNITIVE DEFICITS IN THE ADULT WISTAR RAT**
A. Coyle, N. Rombach-Mullan, D. Scully, A. Prendergast, A. Foley, C. Regan, *Ireland*
- 180 **STUDY OF DEPRENYL EFFECTS ON GLIOSIS AFTER SPINAL CORD COMPRESSION IN ADULT RATS**
M. Heshmati, *Iran*
- 181 **LONG-TERM EFFECTS OF MILDRONATE ON THE PROTEIN EXPRESSION IN A RAT MODEL OF PARKINSON'S DISEASE**
A. Paskevica, S. Isajevs, D. Svirina, J. Pupure, J. Rumaks, S. Svirskis, Z. Dzirkale, U. Beitnere, B. Jansone, V. Klusa, *Latvia*
- 182 **ANTIOXIDANT AND PROLIFERATIVE ACTIVITIES OF BUPLEURI RADIX EXTRACT AGAINST SERUM DEPRIVATION IN HUMAN DOPAMINERGIC SH-SY5Y CELLS**
M.K. Seo, H.Y. Cho, C.H. Lee, J.G. Lee, Y.H. Kim, S.W. Park, *Republic of Korea*
- 183 **REGULATION OF APP PROCESSING AND AB PRODUCTION BY GSK-3 SIGNALING**
P.T.T. Ly, H. Zou, W. Zhou, W. Song, *Canada*
- 184 **PHARMACOLOGICAL CHAPERONES FOR TYROSINE HYDROXYLASE**
A. Martinez, A.C. Calvo, T. Scherer, M. Ying, J. Haavik, J. Underhaug, B. Thony, *Norway, Switzerland*
- 185 **TACRINE AND ITS DERIVATIVE 7-METHOXYTACRINE: COMPARISON OF *IN VITRO* BIOLOGICAL PROPERTIES**
D. Jun, O. Soukup, K. Musilek, M. Pohanka, J.Z. Karasova, K. Kuca, *Czech Republic*

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- 186 **IDENTIFICATION OF BIOLOGICALLY ACTIVE SMALL MOLECULE BINDER TO A-SYNUCLEIN USING STRUCTURE-BASED SCREENING**
L. McConlogue, C.W. Bertocini, N. Cremades, C. Lendel, M. Vendruscolo, S. Roy, M. Tambe, J.-C. Rochet, J. Christodoulou, D. Schenk, C.M. Dobson, G. Toth, *USA, UK, Spain, Sweden*
- 187 **NOSE TO BRAIN DRUG DELIVERY OF MODIFIED SOLID-LIPID NANOPARTICLE BEARING ROPINIROLE: AN *IN VITRO* EVALUATION**
G. Mustafa, A. Ahuja, S. Baboota, J. Ali, *India*
- 188 **DELIVERY OF MODIFIED PLGA NANOPARTICLE BEARING ROPINIROLE THROUGH OLFATORY LOBE: AN *EX VIVO* STUDY**
G. Mustafa, S. Baboota, J. Ali, A. Ahuja, *India*
- 189 **LYSOPHOSPHATIDIC ACID SIGNALING IS INVOLVED IN NEURITE BRANCH FORMATION**
N. Fukushima, D. Furuta, M. Yamane, T. Tsujiuchi, R. Moriyama, *Japan*
- 190 **MOLECULAR INSIGHTS INTO INHIBITION OF GSK-3 BY SUBSTRATE COMPETITIVE INHIBITORS**
H. Eldar-Finkelman, A. Licht-Murava, M. Eisenstein, *Israel*
- 191 **MOLECULAR DOCKING AND DYNAMIC STUDIES TOWARDS THE BINDING OF MULTIPOTENT PHYTOCHEMICAL WITH THE MAJOR TARGETS OF ALZHEIMER'S DISEASE**
J.R. Christopher, A. Kapoor, C.N. Ramchand, *Australia, India*
- 192 **EVALUATION OF NEUROPROTECTIVE AND COGNITION IMPROVING POTENTIALS OF *OCIMUM TENUIFLORUM* IN MICE**
H. Karichedu Joshi, M. Parle, *India*
- 193 **METHYLENE BLUE, SPATIAL MEMORY AND ANTERIOR THALAMIC LESIONS RELEVANT TO AMNESIC DISORDERS**
S.M. Edlin, J.C. Dalrymple-Alford, *New Zealand*
- 194 **NEUROPARIN (C3) PROTECTS SH-SY5Y NEUROBLASTOMA CELLS FROM CASPASE-DEPENDENT APOPTOSIS INDUCED BY CHEMOTHERAPEUTIC AGENTS AND H₂O₂ OXIDATIVE STRESS**
A. Saleh, S. Rizvi, G. Grignol, J. Caldwell, U. Cornelli, B. Dudas, *USA*
- 195 **9-METHYL-BETA-CARBOLINE IMPROVES LEARNING AND MEMORY IN RATS**
G. Gille, M. Gruß, A.G. Schmitt, A.K. Braun, C. Enzensperger, C. Fleck, D. Appenroth, *Germany*

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V.B. Gupta, K. Taddei, G. Verdile, R. Martins, *Australia*
- 197 **DEVELOPMENT OF NOVEL PHOSPHODIESTERASE INHIBITORS FOR THE TREATMENT OF MOTOR AND NON-MOTOR FEATURES OF PARKINSON'S DISEASE**
G.L. Snyder, K. Vanover, H. Zhu, P. Li, L. Zhang, R.E. Davis, J.P. Hendrick, A.A. Fienberg, L.P. Wennogle, S. Mates, *USA*
- 198 **EFFICACY AND SIDE-EFFECTS PROFILE OF PROPRANOLOL VS. PRIMIDONE IN THE TREATMENT OF ESSENTIAL TREMOR: A REPORT OF 23 CASES**
G. Vyshka, J. Kruja, *Albania*
- 199 **HIGH THROUGH AND HIGH CONTENT SCREEN TO IDENTIFY MODULATORS OF DJ1**
S. Jain, P. Heutink, *The Netherlands*
- 200 **A PHASE II, DOUBLE-BLIND, PLACEBO-CONTROLLED, RANDOMIZED, CROSSOVER PILOT STUDY OF THE SAFETY AND EFFICACY OF MULTIPLE DOSES OF INTRA-ORAL TROPICAMIDE FILMS FOR THE SHORT-TERM RELIEF OF SIALORRHEA SYMPTOMS IN PARKINSON'S DISEASE (PD) PATIENTS**
S. Perez-Lloret, G. Nano, D. Katzman, A. Carrosella, E. Gamzu, M. Merello, *Argentina, USA*
- 201 **THERAPEUTIC BENEFITS OF COPPER- BIS(THIOSEMICARBAZONATO) COMPLEXES IN NEURODEGENERATIVE DISORDERS**
L.W. Hung, D.I. Finkelstein, K.J. Barnham, *Australia*
- 202 **DEVELOPMENT OF RAGE ANTAGONISTS AS ANTI-ALZHEIMER DRUG**
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- 203 **5-HT4 RECEPTORS PROMOTE NON-AMYLOIDOGENIC PROCESSING OF APP BY ENHANCING TRAFFICKING OF ADAM-10 AND APP**
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- 204 **4-O-METHYLHONOKIOL ATTENUATED MEMORY IMPAIRMENT OF PRESENILIN 2 MUTANT MICE THROUGH REDUCTION OF OXIDATIVE DAMAGES, AND INACTIVATION OF ASTROCYTES AND ERK PATHWAY**
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- 205 **POSSIBLE PROTECTIVE EFFECT OF GLUTAMINE IN AD**
J. Chen, K. Herrup, *USA*

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- 206 **GANGLIOSIDES- COULD BE A NEW THERAPEUTIC AGENT AGAINST ALZHEIMER'S DISEASE?**
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- 207 **THERAPEUTIC POTENTIAL OF ADIPOSE DERIVED STEM CELLS ON ALZHEIMER'S DISEASE**
K.-A. Chang, S. Kim, Y.-H. Suh, *Republic of Korea*
- 208 **NEW TREATMENT FOR CLINICAL STABILIZATION IN PARKINSON'S DISEASE: PHASE II/III TRIAL**
E. de Font-Réaulx, *Mexico*
- 209 **SULFORAPHANE DERIVATIVES AS CANDIDATES WITH ANTIOXIDANT-INDUCING EFFECTS FOR PARKINSON DISEASE THERAPEUTICS**
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- 210 **METHYLACRIDINIUM AND ITS CHOLINERGIC PROPERTIES**
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- 211 **IDENTIFICATION OF MPTP BLOCKERS BY VIRTUAL SCREENING**
M.N. Morshed, Y.S. Cho, M.Y. Cha, I. Mook-Jung, A.N. Pae, *Republic of Korea*
- 212 **FIRST-IN-CLASS DRUG CANDIDATES WITH NEUROPROTECTIVE POTENTIAL FOR TREATING PD AND AD BY CLEARING MEMBRANE-ASSOCIATED ALPHA-SYNUCLEIN AND TAU**
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- 213 **EFFECT OF DONEPEZIL AND RIVASTIGMINE ON COGNITIVE FUNCTIONS IN DEMENTIA**
S. Jha, M.K. Ansari, *India*
- 214 **PHARMACOKINETICS OF RIVASTIGMINE PATCH (EXELON) IN PATIENTS WITH PARKINSON'S DISEASE DEMENTIA**
G. Lefevre, L. Klingelhöfer, B. Mollenhauer, J. Kassubek, G. Ebersbach, N. Tenenbaum, *Switzerland, Germany, USA*
- 215 **ESTABLISHING THE COMPARATIVE EFFICACY AND SAFETY OF ACETYLCHOLINESTERASE INHIBITORS (ACHIS) AND MEMANTINE USING MIXED TREATMENT COMPARISON**
B. Schauble, R. Modha, H. Wieffer, P.G.M. Gaudig, *Germany, UK*
- 216 **EFFICACY AND SAFETY OUTCOMES OF GALANTAMINE IN PATIENTS WITH ALZHEIMER'S DISEASE TRANSITIONING FROM DONEPEZIL**
B. Schaeuble, U. Richarz, M. Gaudig, J. Han, K. Engedal, *Germany, Switzerland, UK, USA, Norway*

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- 217 **CESSATION VERSUS CONTINUATION OF 12 MONTHS GALANTAMINE THERAPY IN PATIENTS WITH ALZHEIMER DISEASE: A RANDOMIZED, DOUBLE-BLIND, PLACEBO CONTROLLED WITHDRAWAL TRIAL**
B. Schaeuble, U. Richarz, M. Adami, M. Gaudig, A. Jacobs, E. Scarpini, *Germany, Switzerland, Italy, UK*
- 218 **PREDICTORS TO LONG TERM TREATMENT RESPONSE TO GALANTAMINE**
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- 219 **EFFICACY AND SAFETY OF ACETYLCHOLINESTERASE INHIBITORS (ACHIS) AND MEMANTINE: RESULTS OF A RECENT SYSTEMATIC REVIEW AND META-ANALYSIS**
B. Schaeuble, R. Modha, H. Wieffer, G. Pietri, M. Gaudig, *Germany, UK*
- 220 **LONG-TERM EFFECTS OF GALANTAMINE ON COGNITIVE FUNCTION IN ALZHEIMER'S DISEASE: A LARGE-SCALE INTERNATIONAL RETROSPECTIVE STUDY**
B. Schaeuble, S. Kavanagh, B. van Baelen, *Germany, Belgium*
- 221 **MYRTENAL AND VERBENONE INHIBIT ACETYLCHOLINESTERASE, A KNOWN ALZHEIMER TARGET**
D. Kaufmann, A. Kaur Dogra, M. Wink, *Germany, UK*
- 222 **COMPLIANCE OF PATIENTS WITH ALZHEIMER'S DISEASE TO TREATMENT WITH TRANSDERMAL RIVASTIGMINE AND ITS EFFECTIVENESS AND TOLERABILITY IN DAILY PRACTICE AND TOLERABILITY IN DAILY PRACTICE**
G. Adler, K. Articus, *Germany*
- 223 **RIVASTIGMINE TREATMENT IN PARKINSON'S DISEASE DEMENTIA: SHORT-TERM CHOLINERGIC EFFECTS ARE CORRELATED WITH SIX-MONTH TREATMENT RESPONSE**
G. Adler, M. Christenn, M. Bektas, Y. Ko-Inoshishi, A. Kupsch, E. Scholz, K. Articus, *Germany*
- 224 **RESULTS OF A LONG-TERM SAFETY STUDY OF RIVASTIGMINE CAPSULES AND PATCH IN PATIENTS WITH MILD TO MODERATE DEMENTIA ASSOCIATED WITH PARKINSON'S DISEASE**
P. De Deyn, W. Poewe, P. Barone, M. Emre, J. Kulisevsky, E. Pourcher, T. van Laar, F. Callegari, H. Rao, N. Tenenbaum, A. Graf, *Belgium, Austria, Italy, Turkey, Spain, Canada, Netherlands Antilles, Switzerland, India*
- 225 **INTERPLAY OF TRANSDERMAL RIVASTIGMINE WITH PRECEDING AND CONCOMITANT MEDICATION IN THE TREATMENT OF ALZHEIMER'S DISEASE**
K. Articus, K. Bornholdt, K. Hechenbichler, *Germany*

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- 226 **EFFECT OF COMBINATION THERAPY WITH MEMANTINE AND RIVASTIGMINE PATCH ON AGITATION BEHAVIOR IN PATIENTS WITH MILD TO MODERATE ALZHEIMER'S DISEASE: A 24-WEEK PROSPECTIVE, MULTICENTER, RANDOMIZED, OPEN-LABEL CLINICAL TRIAL**
S.J. Yoon, H.J. Kim, S.H. Choi, K.W. Park, D.L. Na, H.J. Han, E.-J. Kim, B.-C. Kim, J.C. Kwon, J.-H. Lee, M.S. Choi, S.J. Cho, EXPECT Study Group, *Republic of Korea*
- 227 **NICOTINE PREVENTS SYNAPTIC IMPAIRMENT INDUCED BY AB OLIGOMERS THROUGH ALPHA7-NACHR ACTIVATION**
J.Y. Vargas, M.S. Arrázola, G.G. Farías, N.C. Inestrosa, *Chile*
- 228 **BENEFITS OF INITIATING PARKINSON-SPECIFIC MEDICATION IN DEGENERATIVE OR MIXED COGNITIVE IMPAIRMENT PATIENTS**
A.E. Petrescu, G.M. Baidac, A.S. Sterea, *Romania*
- 229 **THE INFLUENCE OF DONEPEZIL AND EGB 761 ON THE INNATE IMMUNITY OF HUMAN LEUKOCYTES. EFFECT ON THE NF-KB SYSTEM**
J.W. Leszek, M. Sochocka, E. Zaczynska, A. Taboń, *Poland*
- 230 **EFFICACY OF THE PREVENTION OF HIPPOCAMPAL ATROPHY BY TREATMENT WITH DONEPEZIL IN ALZHEIMER'S DISEASE**
A. Ishiwata, S. Mizumura, M. Yamazaki, H. Hanyu, S. Kitamura, Y. Katayama, *Japan*
- 231 **THE DUAL ACTION OF MEMANTINE ON ALZHEIMER'S DISEASE**
T.-Y. Wu, Y.-J. Chen, C.-Y. Teng, T.-R. Jinn, *Taiwan R.O.C.*
- 232 **ACETYLCHOLINESTERASE IS INHIBITED BY TRADITIONAL CHINESE MEDICAL PLANTS VIA SYNERGISTIC EFFECTS OF THEIR CHEMICAL COMPOUNDS**
D. Kaufmann, A. Kaur Dogra, A. Tahrani, F. Herrmann, M. Wink, *Germany, UK*
- 233 **EFFECTS OF MEMANTINE IN PATIENTS WITH MODERATE TO SEVERE ALZHEIMER'S DISEASE RECEIVING STABLE DOSES OF DONEPEZIL: A META-ANALYSIS**
S. Gauthier, J. Molinuevo, O. Lemming, *Canada, Spain, Denmark*
- 234 **EFFICACY OF MEMANTINE IN MODERATE TO SEVERE ALZHEIMER'S DISEASE: TIME-TO-EVENT ANALYSIS IN A POOLED POPULATION**
M. Tocco, S. Hendrix, M.L. Miller, V. Pejovic, S.M. Graham, *USA*
- 235 **A MULTI-CENTER, PLACEBO-CONTROLLED, DOUBLE-BLIND TRIAL TO EXAMINE THE SAFETY AND EFFICACY OF PIMAVANSERIN IN THE TREATMENT OF PARKINSON'S DISEASE PSYCHOSIS (ACP-103-012)**
J. Friedman, B. Ravina, R. Mills, H. Williams, D. Bahr, P. Peters, F. Tison, D. Burn, *USA, France, UK*
- 236 **A MULTI-CENTER, PLACEBO-CONTROLLED, DOUBLE-BLIND TRIAL TO EXAMINE THE SAFETY AND EFFICACY OF PIMAVANSERIN IN THE TREATMENT OF PARKINSON'S DISEASE PSYCHOSIS (STUDY ACP-103-014)**
R. Mills, H. Williams, D. Bahr, J. Ferreira, B. Hersh, J. Kulisevsky, F. Stocchi, *USA, Portugal, Spain, Italy*

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- 237 **NEUROPROTECTIVE EFFECT OF ATORVASTATIN IN PARKINSON'S DISEASE**
U. Payyavula, *India*
- 238 **TREATING DEMENTIA IN HUNGARY**
T. Kovács, A. Ajtay, D. Bereczki, *Hungary*
- 239 **MEMOGAIN; A NOVEL ANTIDEMENTIVE DRUG PROMISING HIGHER EFFICACY AND LOWER GASTROINTESTINAL SIDE EFFECTS THAN CLASSICAL CHOLINESTERASE INHIBITORS**
J. Ludwig, T. Kaletta, A. Maelicke, *Germany*
- 240 **EFFICACY OF MEMANTINE BY BASELINE DISEASE SEVERITY: POST-HOC ANALYSIS OF POOLED TRIALS IN PATIENTS WITH MILD TO MODERATE ALZHEIMER'S DISEASE**
M. Tocco, S. Hendrix, M.L. Miller, V. Pejovic, S.M. Graham, *USA*
- 241 **MEMANTINE MULTIPLE MECHANISMS OF ACTION IN PRECLINICAL MODELS OF ALZHEIMER'S DISEASE**
P. Banerjee, *USA*
- 242 **DECREASED CAREGIVER BURDEN AMONG CARERS OF PATIENTS WITH PARKINSON'S DISEASE PSYCHOSIS TREATED WITH PIMAVANSERIN, A SELECTIVE 5-HT_{2A} ANTAGONIST**
R. Mills, D. Bahr, H. Williams, *USA*
- 243 **IMPROVED NIGHTTIME SLEEP WITHOUT INCREASED DAYTIME SEDATION IN PATIENTS WITH PARKINSON'S DISEASE PSYCHOSIS TREATED WITH PIMAVANSERIN, A SELECTIVE 5-HT_{2A} ANTAGONIST**
R. Mills, D. Bahr, H. Williams, *USA*
- 244 **QUETIAPINE IN THE TREATMENT OF INSOMNIA IN PARKINSON'S DISEASE: A CASE REPORT**
A. Messina, A.M. Fogliani, *Italy*
- 245 **THE LONG-TERM COGNITIVE OUTCOMES OF ALZHEIMER'S DISEASE - INFLUENCE OF APOE GENOTYPE, NSAID THERAPY AND CHOLINESTERASE INHIBITOR TREATMENT**
C. Wattmo, L. Minthon, Å.K. Wallin, *Sweden*
- 246 **MEMANTINE COUNTERACTS NEURONAL B-AMYLOID PRODUCTION BY SELECTIVELY INHIBITING EXTRASYNAPTIC NMDA RECEPTOR-INDUCED KPI-APP EXPRESSION**
K. Bordji, J. Becerril-Ortega, A. Buisson, *France*
- 247 **A RANDOMIZED CLINICAL TRIAL OF FIPAMEZOLE IN THE TREATMENT OF DYSKINESIA IN ADVANCED PARKINSON'S DISEASE (FJORD STUDY)**
P.A. Le Witt, R.A. Hauser, M. Lu, A.P. Nicholas, W. Weiner, M. Leinonen, N. Coppard, *USA, Finland, Switzerland*

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- 248 **ATORVASTATIN PREVENTS HIPPOCAMPAL CELL DEGENERATION, NEUROINFLAMMATION AND OXIDATIVE STRESS FOLLOWING AMYLOID-1-40 ADMINISTRATION IN MICE**
C. Tasca, T. Piermartiri, C. Figueiredo, S. Bezerra, G. Mancini, D. Rial, F. Duarte, A. De Bem, R.S. Prediger, *Brazil*
- 249 **EFFECTIVE CLEARANCE OF SOLUBLE AMYLOID-BETA PROTOFIBRILS IN THE BRAIN OF TG-APP_{ARC5WE} MICE AFTER TREATMENT WITH A CONFORMATION-SELECTIVE ANTIBODY WITHOUT INDUCING MICROBLEEDING**
L. Söderberg, S. Tucker, H. Laudon, V. Screpanti Sundquist, S. Andersson, E. Rollman Waara, A. Lord, F. Ekholm Pettersson, L.N.G. Nilsson, C. Möller, P. Gellerfors, L. Lannfelt, *Sweden*
- 250 **EFFECTS OF VITAMIN C SUPPLEMENTATION ON LEAD-INDUCED APOPTOSIS IN ADULT RAT HIPPOCAMPUS**
M. Mehdizadeh, F. Kermanian, I. Nourmohammadi, *Iran*
- 251 **CHRONIC ADMINISTRATION OF BERBERINE INHIBITS AB PRODUCTION, PLAQUE FORMATION, GLIOSIS AND COGNITIVE DETERIORATION IN A TRANSGENIC MOUSE MODEL OF ALZHEIMER'S DISEASE**
S.S.K. Durairajan, L.F. Liu, J.H. Lu, I. Koo, K. Maruyama, S.K. Chung, J.D. Huang, M. Li, *Hong Kong S.A.R., Japan*
- 252 **CURCUMIN BIOCONJUGATES PROVIDE IMPROVED PROTECTION AGAINST OXIDATIVE STRESS IN A DOPAMINERGIC NEURONAL CELL LINE: IMPLICATIONS FOR PARKINSON'S DISEASE**
G. Harish, C. Venkateshappa, R. Mythri, S.K. Dubey, K. Misra, S. Bharath, *India*
- 253 **DOES ADENOSINE A_{2A} RECEPTOR ANTAGONISM IMPACT LONG-TERM OUTCOME IN PARKINSON'S DISEASE? ASSESSMENT OF SCH 412348 IN A MOUSE MODEL OF PROGRESSIVE DOPAMINE DEPLETION**
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- 254 **MANIPULATION OF RAS MEDIATES BDNF-DEPENDENT NEUROPROTECTION TO AD-LIKE PATHOLOGY**
G. Guereñu, M.J. Ramírez, F.J. Gil-Bea, *Spain*
- 255 **THE MITOCHONDRIA TARGETED ANTIOXIDANT MITOQ PROTECTS AGAINST DICHLORVOS-INDUCED OXIDATIVE STRESS AND NEURODEGENERATION IN RAT BRAIN**
W.Y. Wani, K.D. Gill, *India*
- 256 **PROTECTIVE ROLE OF MELATONIN AGAINST ALUMINUM INDUCED NEUROTOXICITY IN CEREBRAL CORTEX OF ALBINO MICE**
S. Priyanka, B. Mahitha, P. Sravanthi, K. Jayantha Rao, N. John Sushma, *India*
- 257 **CANNABINOIDS IN NEUROINFLAMMATION AND NEUROGENESIS: FROM NORMAL AGEING TO ALZHEIMER'S DISEASE MODELS**
L. Weinhard, K. Baranger, N. Py, S. Girard, A. Bernard, F. Checler, F. Roman, M. Khrestchatisky, S. Rivera, Y. Marchalant, *France*

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- 258 **ANTIOXIDANTS HALT AXONAL DEGENERATION AND DISABILITY IN A MOUSE MODEL OF THE NEUROMETABOLIC DISEASE ADRENOLEUKODYSTROPHY**
A. Pujol¹, S. Fourcade, J. Lopez-Erauskin, M. Ruiz, J. Galino, A. Schluter, A. Naudi, M. Portero, R. Pamplona, I. Ferrer, *Spain*
- 259 **RANDOMISED PILOT STUDY ON THE FEASIBILITY OF ENOXAPARIN TREATMENT IN ALZHEIMER'S DISEASE**
L.C. Bergamaschini, E. Scarpini, E. Rossi, D. Galimberti, A. Casè, U. Lucca, D. Albani, M.G. De Simoni, M. Tettamanti, G. Forloni, *Italy*
- 260 **WASP-1 PROTECTS AGAINST AB OLIGOMERS-INDUCED SYNAPTIC IMPAIRMENTS THROUGH WNT SIGNALING PATHWAY ACTIVATION**
J.Y. Vargas, M.S. Arrázola, M. Fuenzalida, N.C. Inestrosa, *Chile*
- 261 **DISEASE-MODIFYING EFFECTS OF CANDESARTAN MAY BE LIMITED TO INTERFERENCE WITH THE EARLY STAGES OF 6-OHDA-INDUCED NIGROSTRIATAL DAMAGE**
S. Sarre, B. Mertens, M. Varçin, P. Vanderheyden, Y. Michotte, Research Group Experimental Neuropharmacology, *Belgium*
- 262 **REGULATION OF IDE BY PROPRANOLOL: IMPLICATIONS FOR AB TOXICITY**
M. Dobarro, M. Solas, G. Gereñu, M.J. Ramirez, *Spain*
- 263 **ASSESSMENT OF A NEW TREATMENT (BN82451) AGAINST L-DOPA-INDUCED DYSKINESIA IN PARKINSONIAN MACAQUES**
R. Aron Badin, M.-C. Gaillard, C. Jan, C. Malgorn, M. Guillemier, D. Houitte, N. van Camp, F. Dollé, E. Brouillet, B. Spinnewyn, M. Auguet, P.-E. Chabrier, P. Hantraye, *France*
- 264 **CHRONIC TREATMENT WITH TAUROURSODEOXYCHOLIC ACID AMELIORATES MEMORY DEFICITS IN APP/PS1 MICE, A MOUSE MODEL FOR ALZHEIMER'S DISEASE**
A.C. Lo, R.J.S. Viana, B. De Strooper, C.M.P. Rodrigues, R. D'Hooge, *Belgium, Portugal*
- 265 **SIMVASTATIN IS THE STATIN THAT MOST EFFICIENTLY PROTECTS AGAINST KAINATE-INDUCED EXCITOTOXICITY AND MEMORY IMPAIRMENT IN VIVO**
C. Ramirez, I. Tercero, A. Pineda, J.S. Burgos, *Spain*
- 266 **PREVALENCE AND FACTORS RELATED TO IMPULSE-CONTROL DISORDERS IN PARKINSON'S DISEASE PATIENTS**
S. Perez-Lloret, M.V. Rey, N. Fabre, F. Ory, U. Spampinato, J.-L. Montastruc, O. Rascol, *France*

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- 267 **DO PARKINSON'S DISEASE PATIENTS DISCLOSE ADVERSE DRUG REACTIONS SPONTANEOUSLY?**
M.V. Rey, S. Perez-Lloret, N. Fabre, F. Ory, U. Spampinato, J.-L. Montastruc, O. Rascol, *France*
- 268 **MEDIUM TERM CURCUMIN TREATMENT ENHANCES NEUROGENESIS AND GENES RELATED TO GROWTH AND SYNAPTIC PLASTICITY IN AGED RATS**
E. Mitchell, J. Xiu, S. Dong, Q. Ceng, J. Tiwari, E. Hunter, Y. Hu, X. Cao, Z. Zhao, *The Netherlands, China, India, USA*
- 269 **THE NEUROPROTECTIVE EFFECT OF RASAGILINE, A MAO-B INHIBITOR, ON THIAMINE DEFICIENCY-INDUCED NEURODEGENERATION IN RATS**
M. Rehavi, V. Dror, Y. Assaf, A. Fattal-Valevski, S. Eliash, *Israel*
- 270 **ALZHEIMER'S DISEASE PATIENTS' TELOMERE INTENSITY DIFFERS FROM CONTROLS: PILOT STUDY RESULTS**
A. Glogowska, S. Mai, E. McAvoy, **A. Garcia**, *Canada*
- 271 **THE HIGHLY ANTICHOLINERGIC ANTIDEPRESSANT PRESCRIPTION RATE IN GERIATRIC DEPRESSION; AN ANALYSIS OF NATIONAL INSURANCE DATA**
J.-W. Paik, **J.-Y. Song**, *Republic of Korea*
- 272 **EFFECTS OF BIOACTIVE COMPOUNDS FROM BLACKCURRANT ON THE PATHOGENIC PATHWAYS RELEVANT FOR ALZHEIMER'S DISEASE:RESULTS FROM THE "BRAINHEALTHFOOD" PROJECT**
S. Vepsäläinen, R. Karjalainen, G. McDougal, D. Stewart, M. Hiltunen, *Finland, UK*
- 273 **DOPAMINE AGONISTS PRODUCE NEUROTROPHIC EFFECTS ON MESENCEPHALIC DOPAMINERGIC NEURONS VIA DOPAMINE D3 ACTIVATION**
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- 274 **ACUTE DONEPEZIL TREATMENT ALLEVIATES THE SCOPOLAMINE-INDUCED MEMORY DEFICITS IN CONTEXTUAL FEAR CONDITIONING AND SOCIAL TRANSMISSION OF FOOD PREFERENCE IN MICE**
K. Lehtimäki, R. Pussinen, A. Koponen, **A. Nurmi**, J. Puoliväli, P. Tuunanen, J. Yrjänheikki, *Finland*
- 275 **DOES AUTOMATED ANALYSIS OF [¹⁸F]FDG-PET/CT HELP DIFFERENTIATING FRONTO-TEMPORAL DEMENTIA FROM ALZHEIMER'S DISEASE?**
L. Ravasi, P. Lenfant, R. Lebouc, A. Pallardy, S. Henry, M. Genty, F. Lebert, F. Semah, F. Pasquier, F. Le Jeune, *France*

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- 276 **PREDICTION OF CONVERSION FROM MCI (MILD COGNITIVE IMPAIRMENT) TO AD (ALZHEIMER'S DISEASE) USING BRAIN PERFUSION SPECT**
M. Seto, Y. Nakao, I. Tomita, K. Mutsukura, K. Ichinose, H. Satoh, A. Satoh, M. Tsujihata, *Japan*
- 277 **EARLY DIAGNOSIS OF ALZHEIMER'S DISEASE BY MONITORING AGGREGATED AMYLOID-B PEPTIDE?**
L. Wang-Dietrich, S.A. Funke, P. Zißmann, E. Birkmann, P. Götz, C. Lange-Asschenfeldt, T. Gensh, D. Willbold, *Germany*
- 278 **COMPARISON OF F-18 FLORBETAPIR (AV-45) AND FDG PET SCANS BETWEEN FAMILIAL AND SPORADIC ALZHEIMER'S DISEASE**
C.-C. Huang, K.-J. Lin, I.-T. Hsiao, C.-J. Hsieh, Y.-C. Hsieh, S.-P. Wey, M.-P. Kung, D. Skovronsky, T.-C. Yen, *Taiwan R.O.C., USA*
- 279 **ARE THERE DIFFERENCES OF LOSS OF DOPAMINERGIC NEURONS BETWEEN IDIOPATHIC PARKINSON DISEASE WITH DEMENTIA AND WITHOUT DEMENTIA ? A FP-CIT PET STUDY**
S.-W. Chung, Y.-A. Chung, I.-U. Song, *Republic of Korea*
- 280 **POSITRON EMISSION TOMOGRAPHY IMAGING WITH A NOVEL VESICULAR MONOAMINE TRANSPORTER 2 LIGAND (¹⁸F-FP-(+)-DTBZ) IN PATIENTS WITH PARKINSON DISEASE AND HEALTHY SUBJECTS**
Y.H. Weng, K.J. Lin, H.C. Kang, C.S. Lu, W.Y. Lin, T.C. Yen, *Taiwan R.O.C.*
- 281 **REGIONAL AMYLOID PLAQUE DEPOSITION IN MCI AND ALZHEIMER DISEASE EVALUATED BY F-18 FLORBETAPIR (AV-45) PET SCANS**
C.-C. Huang, K.-J. Lin, I.-T. Hsiao, C.-J. Hsieh, H.-C. Kang, Y.-C. Hsieh, S.-P. Wey, M.-P. Kung, D. Skovronsky, T.-C. Yen, *Taiwan R.O.C., USA*
- 282 **MULTIVARIATE ANALYSIS TO ASSESS THE COMPATABILITY OF THE EUROPEAN ADDNEUROMED AND AMERICAN ADNI STUDIES**
E. Westman, A. Simmons, J.-S. Muehlboeck, P. Mecocci, B. Vellas, M. Tsolaki, I. Kloszewska, H. Soininen, M.W. Weiner, S. Lovestone, C. Spenger, L.-O. Wahlund, for the AddNeuroMed Consortium and the Alzheimer's Disease Neuroimaging Initiative, *Sweden, UK, Italy, France, Greece, Poland, Finland, USA*

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- 283 **CORRELATION OF GLUCOSE HYPOMETABOLISM ON ^{18}F -FDG PET WITH NEUROPSYCHOLOGICAL RESULTS IN POSTERIOR CORTICAL ATROPHY AND TYPICAL ALZHEIMER'S DISEASE**
B.C. Kim, S.M. Choi, K.W. Park, K.H. Choi, H.C. Song, J.R. Oh, W. Yoon, M.K. Kim, K.H. Cho, *Republic of Korea*
- 284 **ALZTOOLS: INTEGRATION OF MEDICAL IMAGING ANALYSIS TOOLS BASED ON MRI FOR THE STUDY AND DIAGNOSIS OF ALZHEIMER'S DISEASE**
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- 285 **COMPARISON OF HIPPOCAMPAL AND TEMPORAL HORN AREAS ON BRAIN MRI AS INDICATOR OF ALZHEIMER DISEASE**
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- 286 **IMPACTS OF AGE AND TASK'S CHARACTERISTICS ON WORKING MEMORY PROCESS: AN FMRI STUDY**
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- 287 **IN VITRO CHARACTERISATION OF [^{18}F]-FLORBETABEN (BAY94-9172), AN AB IMAGING RADIOTRACER**
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- 288 **IMPACT OF EEG-VIGILANCE ON BRAIN GLUCOSE UPTAKE MEASURED WITH [^{18}F]FDG-PET IN PATIENTS WITH DEPRESSIVE EPISODE OR MILD COGNITIVE IMPAIRMENT**
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- 289 **GLOBAL AND CEREBELLAR INTENSITY NORMALIZATION IN THE DETECTION OF REDUCED CEREBRAL GLUCOSE METABOLISM IN PATIENTS WITH MCI AND ALZHEIMER'S DISEASE USING [^{18}F]FLUORODEOXYGLUCOSE PET**
T. Guenther, A. Küntzelmann, U. Haberkorn, M. Essig, J. Schröder, P. Schönknecht, *Germany*

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- 290 **HIGH SENSITIVITY-SPECIFICITY DETECTION OF MCI-AD PATIENTS WITH A NEW IMAGING SYSTEM “NEURONAL ACTIVITY TOPOGRAPHY” BASED ON EEG POWER VARIANCE ANALYSIS**
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- 291 **THE TOPOGRAPHY OF BRAIN MICROSTRUCTURAL DAMAGE IN AMYOTROPHIC LATERAL SCLEROSIS ASSESSED USING DIFFUSION TENSOR MRI**
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- 292 **¹⁸F FLUORODEOXYGLUCOSE PET IN PARKINSON’S DISEASE WITH MILD COGNITIVE IMPAIRMENT (PD-MCI)**
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- 293 **THREE DIMENSIONAL BRAIN SPECT IMAGE ANALYSIS IN PARKINSON'S DISEASE(PD) AND ALZHEIMER'S DISEASE (AD)**
K. Mutsukura, Y. Nakao, I. Tomita, K. Ichinose, H. Satoh, A. Satoh, M. Seto, M. Tsujihata, *Japan*
- 294 **MULTI-SCALE ANALYSIS OF EEG SIGNALS IN ALZHEIMER DISEASE USING WAVELET TRANSFORMATION**
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- 295 **DIFFERENT PATTERNS OF BRAIN ATROPHY ASSOCIATED WITH MOTOR IMPAIRMENT IN MODERATE-ADVANCED DEMENTIA**
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- 296 **VALIDITY AND RELIABILITY OF A SEMI-AUTOMATIC METHOD FOR MEASURING WHITE MATTER HYPERINTENSITY VOLUME**
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- 297 **CLINICAL CORRELATES OF WHITE MATTER TRACT DEGENERATION IN PSP: A DIFFUSION TENSOR IMAGING STUDY**
J.L. Whitwell, A. Master, R. Avula, K. Kantarci, S.D. Eggers, H.A. Edmonson, C.R. Jack, K.A. Josephs, *USA*
- 298 **CARDIAC META-IODOBENZYL GUANIDINE (MIBG) SCINTIGRAPHY CAN DIFFERENTIATE FRONTOTEMPORAL DEMENTIA FROM DEMENTIA WITH LEWY BODIES**
Y. Hashimoto, R. Azuma, M. Sakamoto, A. Inaba, S. Orimo, T. Hattori, M. Mimura, T. Fukui, Y. Itoh, T. Uchihara, A. Kakita, K. Wakabayashi, H. Takahashi, *Japan*

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- 300 **DEVELOPMENT OF LEWY BODIES MRI IMAGING AGENTS FOR THE EARLY DIAGNOSIS OF PARKINSON'S DISEASE AND RELATED DISORDERS**
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- 301 **EFFECT OF MULTICHANNEL INVERSE SCALING DENOISING IN DETECTION OF INJURED WHITE MATTER IN FRACTIONAL ANISOTROPY MAPS**
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- 302 **EVENT-RELATED DESYNCHRONIZATION/SYNCHRONIZATION (ERD/ERS) IN PARKINSONIAN PATIENTS (PP) AND HEALTHY SUBJECTS (HS) DURING DISCRIMINATION TASK CONDITIONS**
J. Dushanova, *Bulgaria*
- 303 **[¹⁸F]FLUTEMETAMOL, FLORBETAPIR F18 (18F-AV-45) AND FLORBETABEN (BAY 94-9172); AUTOMATED RADIOSYNTHESIS AND COMPARATIVE STUDY OF *IN VIVO* BIODISTRIBUTION AND METABOLISM IN RAT**
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- 304 **ALTERED FUNCTIONAL ORGANIZATION OF THE MOTOR SYSTEM RELATED TO ANKLE MOVEMENTS IN PARKINSON'S DISEASE - INSIGHTS FROM FUNCTIONAL MRI**
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- 305 **AMYLOID IMAGING WITH AV-45 IN PARKINSON'S DISEASE**
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- 306 **THE DIAGNOSTIC ROLE OF SUSCEPTIBILITY-WEIGHTED MR IMAGING IN PARKINSON'S DISEASE**
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- 308 **STRUCTURAL MRI CHANGES DETECTABLE UP TO TEN YEARS BEFORE COGNITIVE IMPAIRMENT DUE TO ALZHEIMER'S DISEASE**
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- 309 **REFLEXIVE SACCADDES IN ALZHEIMER'S DISEASE USING FMRI**
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- 310 **CHANGE IN PASAT PERFORMANCE CORRELATES WITH CHANGE IN P3 ERP AMPLITUDE OVER A 12-MONTH PERIOD IN MULTIPLE SCLEROSIS PATIENTS**
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- 311 **DIFFERENTIATION OF NON-HALLUCINATING DEMENTIA WITH LEWY BODIES FROM CORTICOBASAL SYNDROME: NEUROPSYCHOLOGICAL AND BRAIN SPECT FEATURES**
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- 312 **HIPPOCAMPAL CAVITIES IN ELDERLY SUBJECTS - PREVALENCE, EVOLUTION AND IMPACT ON COGNITION**
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- 313 **DIFFUSION KURTOSIS IMAGING AS A PRE-SYMPTOMATIC MARKER IN AN A-SYNUCLEINOPATHY MOUSE MODEL**
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- 314 **GREY MATTER PATTERNS IN COGNITIVE IMPAIRED SUBJECTS USING CSF BIOMARKERS CUT-OFFS**
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- 316 **IN VIVO AND EX VIVO IMAGING OF AMYLOID BETA CASCADE AGGREGATES WITH A PRONUCLEON™ PEPTIDE IN EXPERIMENTAL ALZHEIMER'S DISEASE (AD) MOUSE MODEL**
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- 317 **FORMATION OF J-AGGREGATES BY THIRIMETHINECYANINE DYE 7514 ON FIBRILAR INSULIN**
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- 318 **MULTIMODAL MRI ACCURATELY IDENTIFIES CEREBRAL TISSUE STATE, METABOLISM AND FUNCTION IN 6-OHDA INDUCED RAT MODEL OF PARKINSON'S DISEASE**
K. Lehtimäki, R. Pussinen, A. Koponen, A. Nurmi, J. Puoliväli, P. Tuunanen, J. Yrjänheikki, *Finland*
- 319 **NON-COGNITIVE BEHAVIOURS IN A TAU TRANSGENIC MODEL OF ALZHEIMER'S DISEASE**
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- 320 **PLAQUE DETECTION IN THE APPS1 MOUSE MODEL THROUGH DKI MRI**
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- 321 **ACCUMULATION OF INTRANEURONAL ABETA CORRELATES WITH APOE4 GENOTYPE**
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- 322 **SENESCENCE RELATED APP-POSITIVE CHOLINERGIC DYSTROPHIC NEURITES IN HIPPOCAMPAL CA1 REGION**
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- 323 **DEVELOPMENT OF EARLY CHOLINERGIC TRANSMISSION DAMAGE IN TRANSGENIC APPSWE/PS1DE9 MICE**
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- 324 **EXPRESSION OF VENTRAL DIENCEPHALON-ENRICHED GENES IN ZEBRAFISH**
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- 325 **IDENTIFICATION OF LOW MOLECULAR WEIGHT N-TRUNCATED ABETA OLIGOMERS IN ALZHEIMER DISEASE: A NOVEL TOOL FOR THERAPY AND DIAGNOSIS**
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- 327 **METABOLITE ANALYSIS IN BRAIN EXTRACTS FROM ALZHEIMER TRANSGENIC MICE**
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- 328 **OPPOSITE DEFECTS OF DENDRITIC SPINES INDUCED BY AMYLOID AND TAU PATHOLOGY, AND IMPLICATION OF GSK3**
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- 329 **AAV-TAU MEDIATED NEURODEGENERATION: EARLY DENDRITIC DYSFUNCTION, INFLAMMATION AND VASCULAR DEFECTS**
T. Jaworski, P. Borghgraef, S. Kuegler, F. Van Leuven, *Belgium, Germany*
- 330 **AUTORADIOGRAPHIC DETECTION OF NEUROINFLAMMATION ASSOCIATED WITH NFTS ACCUMULATION IN THE TAU TRANSGENIC MOUSE MODEL THY-TAU22**
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- 331 **AGE-DEPENDENT CHANGES IN SPINE DENSITY AND MORPHOLOGY IN A TRANSGENIC MOUSE MODEL OF ALZHEIMER'S DISEASE**
K. Selle, L. Bakota, R. Brandt, *Neurobiology, Germany*
- 332 **FAMILIAL ALZHEIMER'S DISEASE (AD) APP MUTATIONS AT POSITION 693 DIFFERENTIALLY AFFECT AB ACCUMULATION AND DEPOSITION IN VIVO**
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- 333 **MODELLING ALZHEIMER'S DISEASE IN MICE THROUGH ADENO-ASSOCIATED VIRUS VECTOR DELIVERY OF MUTANT APP**
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- 334 **TRANSGENIC MOUSE MODELS OF ALZHEIMER'S DISEASE - A SYSTEMATIC REVIEW AND META-ANALYSIS**
K. Egan, E. Sena, H. Vestnerinen, M. Macleod, *UK*

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- 335 **TRACTOGRAPHY IMAGING DETECTS THE LOSS OF CHOLINERGIC BASAL FOREBRAIN NEURONS IN A MOUSE MODEL OF ALZHEIMER'S DISEASE**
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- 336 **THE ROLE OF BASAL FOREBRAIN CHOLINERGIC NEURONS IN SPATIAL MEMORY**
A.S. Hamlin, E. Coulson, *Australia*
- 337 **ALTERED LIPID COMPOSITION IN BRAIN CORTEX'S LIPID RAFTS FROM AGED APP/PS1 TRANSGENIC MICE**
N. Fabelo, V. Martín, G. Santpere, L. Torrent, I. Ferrer, M. Díaz, *Spain*
- 338 **EARLY PATHWAY-SPECIFIC DEFICITS IN SYNAPTIC TRANSMISSION IN THE TASTPM MOUSE MODEL OF ALZHEIMER'S DISEASE**
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- 339 **COMPARISON OF [¹¹C]PIB BINDING IN THE BRAIN OF APP23 AND APP/PS1 TRANSGENIC MICE**
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- 340 **BIOCHEMICAL CHARACTERIZATION OF THE TG2576 MOUSE MODEL: AGE-DEPENDENT LEVELS OF AB SPECIES AND OTHER APP PROCESSING FRAGMENTS IN PLASMA AND BRAIN**
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- 341 **CHOLINERGIC HYPOFUNCTION THREATENS APP PROCESSING AND HIPPOCAMPAL INTEGRITY OF TG2576 MICE**
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- 342 **MRI DETECTION OF AB-PLAQUES WITH GD-STILBEN DERIVATIVE IN ALZHEIMER TRANSGENIC MICE**
G. Louin, J.-S. Raynaud, S. Catoen, M. Nain Dit Ducret, E. Maubert, D. Vivien, S. Ballet, I. Raynal, P. Robert, M. Port, C. Corot, *France*
- 343 **CHARACTERIZATION OF A NEW TRANSGENIC MOUSE MODEL FOR AD, COMBINING APP AND TAU NEUROPATHOLOGY, BY BIOCHEMICAL, BEHAVIOURAL AND HISTOLOGICAL ANALYSIS**
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- 344 **NEURONAL CHANGES IN PLAQUE BEARING AND NON-PLAQUE BEARING ANIMAL MODELS OF ALZHEIMER'S DISEASE**
D.L. Dickstein, H. Brautigam, C. Butti, J.W. Steele, M.E. Ehrlich, S.E. Gandy, P.R. Hof, *USA*

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- 346 **TRANSLATIONAL THERAPEUTIC DEVELOPMENT OF ALLOPREGNANOLONE TO RESTORE COGNITIVE FUNCTION IN ADULT MALE AND FEMALE TRIPLE TRANSGENIC ALZHEIMER'S MICE**
J.M. Wang, R.W. Irwin, C. Singh, S. Chen, D. Kim, R.F. Thompson, R.D. Brinton, *USA*
- 347 **NEW MODELS OF AB OLIGOMER-INDUCED COGNITIVE IMPAIRMENT AND SYNAPTIC DEGENERATION FOR MOLECULE SCREENING AND THERAPEUTIC TARGETS IDENTIFICATION**
C. Malaplate-Armand, V. Koziel, F. Yen-Potin, M.-C. Escanyé, T. Oster, T. Pillot, *France*
- 348 **EFFECTS OF A7-NICOTINIC RECEPTOR-SELECTIVE DRUGS ON GLUTAMATERGIC TRANSMISSION AND AB-MEDIATED DISRUPTION OF SYNAPTIC PLASTICITY IN THE RAT HIPPOCAMPUS**
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- 349 **EFFECT ON AMYLOID LOAD AFTER PERIPHERAL ADMINISTRATION OF A NEPRILYSIN FUSION PROTEIN TO TG2576 MOUSE**
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- 350 **FUNCTIONAL INTERACTION BETWEEN PRESYNAPTIC A_{2A} ADENOSINE AND NICOTINIC ACETYLCHOLINE RECEPTORS IN THE RODENT BRAIN. "TWO PLAYERS IN ALZHEIMER'S AND PARKINSON'S DISEASES"**
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- 351 **NFKB TRANSCRIPTION FACTOR MODULATES MICROGLIAL RESPONSES IN APP/PS1 TRANSGENIC MICE**
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- 352 **EFFECTS OF SPECIFIC DHA AND CHOLESTEROL CONTAINING DIETS ON SYNAPTIC DENSITY AND NEUROGENESIS IN 10-13 MONTHS-OLD APP/PS1, APOE4 AND APOE KNOCKOUT MICE**
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- 353 **EFFECTS OF SPECIFIC DHA CONTAINING DIETS ON EXPLORATIVE BEHAVIOR AND BRAIN METABOLISM IN 10-13 MONTHS OLD APP_{SWE}/PS1DE9 MALE ALZHEIMER MICE**
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- 354 **CEREBRAL BLOOD FLOW AND COGNITION IN AGED ALZHEIMER APP/PS1 MICE ON A MULTI-NUTRIENT DIET CONTAINING DOCOSAHEXAENOIC ACID (DHA)**
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- 355 **EARLY COGNITIVE DEFICITS AND LATE PLAQUE-LIKE PATHOLOGY IN AN APP-TRANSGENIC MOUSE MODEL OF PYROGLUTAMATE-AB TOXICITY**
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- 356 **CHARACTERIZATION OF B-AMYLOID GRANULES IN THE HIPPOCAMPUS OF SAMP8 MICE**
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- 357 **EXOSOME REGULATES OLIGEMRIZATION OF AB AND ATTENUATES AB-INDUCED LTP IMPAIRMENT EFFECT IN VIVO AND TG2576 MICE**
K. An, Y. Kim, S. Lee, J.-H. Kim, *Republic of Korea*
- 358 **A CELL-FREE STRATEGY FOR THERAPEUTIC NEUROGENESIS: BONE MARROW STROMAL CELL-CONDITIONED MEDIUM "REPLACES" THE BMSC GRAFTING BENEFITS IN THE AGED, COGNITIVELY IMPAIRED RAT**
C. Fernandez, CIREN Stem Cells Project, *Cuba*
- 359 **SEEDING EFFECT OF PYROGLUTAMATE AMYLOID BETA 3-42 PROMOTES PLAQUE DEPOSITION AND BEHAVIOURAL DEFICITS IN A NOVEL MOUSE MODEL OF ALZHEIMER'S DISEASE**
J. Wittnam, O. Wirths, T. Bayer, *Germany*
- 360 **CO-ASSOCIATION OF REELIN AND AMYLOID-BETA IMMUNOREACTIVITY IN RODENT AND HUMAN TISSUE IS ENHANCED IN THE AGED BRAIN**
J. Doehner, T. Notter, D. Krstic, M. Neumann, K. Irene, Reelin/AD, *Switzerland*

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- 444 **EQUILIBRIUM UNFOLDING OF A. NIGER RNASE: PH DEPENDENCE OF CHEMICAL AND THERMAL DENATURATION**
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- 445 **THE ROLE OF ALZHEIMER'S DISEASE-ASSOCIATED UBIQUILIN-1 TRANSCRIPT VARIANTS IN PRESENILIN-1 ACCUMULATION AND AGGRESOME FORMATION**
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- 446 **TREATMENT WITH MONOCLONAL ANTIBODIES REDUCES INTRACELLULAR DIMERIZATION/OLIGOMERIZATION OF ALPHA-SYNUCLEIN IN A CELL CULTURE MODEL**
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- 447 **CURCUMIN AND RESVERATROL INHIBIT A β NEURONAL TOXICITY BY SIMILARLY IMPEDING PEPTIDE ASSEMBLY**
J. Davis, D. Aucoin, W.E. Van Nostrand, S.O. Smith, *USA*
- 448 **AVOIDING THE STRAIGHT AND NARROW: THE ROLE OF SMALL HEAT SHOCK PROTEINS IN PREVENTING DISEASE-ASSOCIATED AMYLOID FIBRIL FORMATION**
H. Ecroyd, J.A. Carver, *Australia*
- 449 **HERPES SIMPLEX VIRUS TYPE-1 INFECTION INCREASES BACE1 EXPRESSION AND A β PRODUCTION THROUGH PKR ACTIVATION**
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- 450 **QUALITY CONTROL OF GAMMA-SECRETASE ASSEMBLY IN THE ER**
C. Kaether, M. Fassler, *Germany*
- 451 **LOW LEVELS OF GGA3 PROTEIN IN ALZHEIMER'S DISEASE FRONTAL CORTEX PROMOTE CO-DISTRIBUTION OF BACE WITH THE AMYLOID PRECURSOR PROTEIN**
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- 452 **THE CELLULAR NUCLEIC ACID BINDING PROTEIN REGULATES BACE1 *IN VIVO***
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- 453 **NON-PEPTIDIC BACE1 INHIBITORS AS DRUG CANDIDATES FOR ALZHEIMER'S DISEASE**
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- 454 **THE FUNCTIONAL ROLE OF MICRORNA TARGET SITE POLYMORPHISMS IN THE 3'UTRS OF BACE1 AND APP**
C. Delay, S.S. Hébert, *Canada*
- 455 **EXPRESSION OF BACE-1 SPLICE VARIANTS IN FRONTAL CORTEX OF SCHIZOPHRENIC PATIENTS**
A. Barakat, S. Bellingham, A. Hill, W.C. Boon, B. Dean, E. Scarr, G. Evin, *Australia*
- 456 **REGULATION OF BETA-AMYLOID PRODUCTION IN ALZHEIMER'S DISEASE BY N-GLYCAN PROCESSING**
T. Endo, H. Manyá, K. Akasaka-Manyá, *Japan*
- 457 **LEPTIN REGULATES AMYLOID-B PRODUCTION VIA THE Γ -SECRETASE COMPLEX**
D. Niedowicz, C. Studzinski, A. Weidner, K. Kingry, T. Beckett, J. Keller, M.P. Murphy, *USA, Canada*

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- 458 **NPM01, A MARINE NATURAL PRODUCT, AND ITS DERIVATIVES AS ALPHA-SECRETASE ACTIVATORS**
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- 459 **THE CELLULAR NUCLEIC ACID BINDING PROTEIN CONTROLS BACE1 EXPRESSION IN ALZHEIMER'S DISEASE**
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- 460 **PEPTIDE-BASED GAMMA-SECRETASE INHIBITORS MIMICKING THE INTERACTION DOMAINS BETWEEN PRESENILIN-1 AND APP**
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- 461 **AGING-ASSOCIATED CHANGES DRIVE THE GAMMA-SECRETASE COMPLEX TOWARDS INCREASED PRODUCTION OF NEUROTOXIC AB₄₂ PEPTIDE**
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- 462 **A PRACTICAL APPROACH TO PROFILE GAMMA-SECRETASE-MODULATING COMPOUNDS BY MALDI-TOF/MS**
H. Watanabe, F. Bernier, T. Miyagawa, Y. Oda, *Japan, USA*
- 463 **E2012, A NOVEL GAMMA-SECRETASE MODULATOR, DECREASES PLASMA AMYLOID-BETA (AB) LEVELS IN HUMANS**
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- 464 **NEUTRALIZATION OF GAMMA-SECRETASE ACTIVITY BY MONOCLONAL ANTIBODY AGAINST EXTRACELLULAR DOMAIN OF NICASTRIN**
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- 465 **DETECTING NOTCH SIGNALING INHIBITION BY GAMMA-SECRETASE INHIBITORS AND GAMMA-SECRETASE MODULATORS: GENE EXPRESSION PROFILE ANALYSIS**
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- 466 **PHARMACOLOGY AND MECHANISM OF ACTION OF A NOVEL GAMMA-SECRETASE MODULATOR**
H. Amino, A. Ishibashi, H. Hagiwara, Y. Murata, T. Sasaki, O. Takenaka, T. Miyagawa, *Japan*
- 467 **PRESENILIN 1 IS A MOLECULAR TARGET OF PHENYLPYPERIDINE-TYPE GAMMA-SECRETASE MODULATORS**
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- 469 **PROCESSING OF NEUREXIN3B BY ALPHA- AND GAMMA-SECRETASES**
N. Bot, C. Schweizer, S. Ben Halima, P.C. Fraering, *Switzerland*
- 470 **REGULATION OF APP PROCESSING AND AB PRODUCTION BY BACE1**
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- 471 **IDENTIFICATION OF TRANSCRIPTION FACTORS MODULATING GENE-EXPRESSION OF ALZHEIMER'S DISEASE RELATED PROTEINASES ADAM10 AND BACE1**
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- 472 **PRESENILIN 1 AND 2 CONTRIBUTE DIFFERENTLY TO GAMMA-SECRETASE ACTIVITY BOTH IN MOUSE EMBRYONIC FIBROBLASTS AND ADULT MOUSE BRAIN**
J. Frånberg, A.I. Svensson, B. Winblad, H. Karlström, S. Frykman, *Sweden*
- 473 **BACE1 HIPPOCAMPAL EXPRESSION IS REGULATED BY NITRIC OXIDE THROUGH HRI ACTIVATION**
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- 474 **GAMMA-SECRETASE DEPENDENT PHAGOCYTOSIS OF AMYLOID-BETA (AB) IN MICROGLIAL CELLS**
S.K. Tosheva, J. Walter, *Germany*
- 475 **REGULATION OF BETA-SECRETASE EXPRESSION AND ACTIVITY IN PRIMARY CULTURES OF NEURONS AND ASTROCYTES**
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- 476 **EFFECTS OF UBIQUILIN-1 TRANSCRIPT VARIANTS ON Γ -SECRETASE ACTIVITY AND APP PROCESSING**
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- 477 **RECOMBINANT FORMS OF THE APP C-TERMINAL FRAGMENT OCCUR IN STABLE CONFORMATIONS AND BIND GAMMA-SECRETASE MODULATORS**
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- 478 **THE PROTEIN KINASE DYRK1A INCREASES ALPHA-SECRETASE ACTIVITY IN NEURONAL CELLS AND ACCELERATES ALPHA-CLEAVAGE OF AMYLOID PRECURSOR PROTEIN**
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- 480 **AFFINITY PULLDOWN OF GAMMA-SECRETASE AND ASSOCIATED PROTEINS FROM HUMAN AND RAT BRAIN**
A. Ikeda, Y. Teranishi, J.-Y. Hur, T. Ishikawa, H. Welander, J. Frånberg, M. Aoki, B. Winblad, S. Frykman, L.O. Tjernberg, *Japan, Sweden*
- 481 **PROGRESSIVE EFFECT OF BETA AMYLOID PROTEIN ACCUMULATION ON THE FIRING PROPERTIES OF CA1 PYRAMIDAL NEURONS: A MODEL STUDY SUGGESTING A POSSIBLE TREATMENT**
M. Migliore, V. Culmone, *Italy*
- 482 **PRESENILINS REGULATE AUTOPHAGIC RESPONSE TO STRESS**
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- 483 **ABETA42 OLIGOMER-INDUCED PRESYNAPTIC DEFICITS IN CULTURED HIPPOCAMPAL NEURONS**
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- 484 **SUBLETHAL DOSES OF BETA-AMYLOID PEPTIDE ABROGATE DNA-PK ACTIVITY**
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- 485 **NOTCH AND NF-KB PATHWAY CROSS-TALK REGULATES NEURITE REMODELLING**
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- 486 **DIFFERENTIAL EFFECTS OF B-AMYLOID OLIGOMERS AND PROTOFIBRILS ON MICROGLIA ACTIVATION**
D. Ferrera, C. Canale, F. Benfenati, L. Gasparini, *Italy*
- 487 **AB NEUROTOXICITY IS MEDIATED BY ONGOING NUCLEATED POLYMERIZATION PROCESS RATHER THAN BY DISCRETE AB SPECIES**
A. Jan, *Switzerland*
- 488 **PREPARATION AND CHARACTERIZATION OF TOXIC AB AGGREGATES FOR STRUCTURAL AND FUNCTIONAL STUDIES IN ALZHEIMER'S DISEASE (AD) RESEARCH**
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- 489 **CATABOLISM OF ALZHEIMER'S AMYLOID-BETA: IMPLICATIONS FOR BRAIN CLEARANCE AND PLAQUE DEPOSITION**
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491 THE ABETA PROTEIN OF ALZHEIMER'S DISEASE PROTECTS AGAINST MICROBIAL INFECTION

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492 EFFECTS OF EXPIRATORY MUSCLE STRENGTH TRAINING ON AIRWAY PROTECTION IN PARKINSON'S DISEASE

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493 A STUDY OF CASPASES AND EXERCISE IN PARKINSONS DISEASE: DOES EXERCISE SUPPRESS CELL DEATH?

Z. Chaudhry, M. Chalimoniuk, J. Langfort, B. Ahmed, *UK, Poland*

494 CHANGING DEMOGRAPHIC AND GEOGRAPHIC DISTRIBUTIONS AMONG VETERANS WITH PARKINSON'S DISEASE UTILIZING THE VHA

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495 SPECIFIC DEFICITS IN EMOTIONAL PROCESSING IN PARKINSON'S PATIENTS ARE RELATED WITH EXECUTIVE DISFUNCTIONS

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496 JUNIOR DOCTORS EXPERIENCES OF MANAGING INPATIENTS WITH PARKINSON'S DISEASE: A QUALITATIVE STUDY

M. Sweeting, *UK*

497 PROVERBS COMPLETION IN PARKINSON DISEASE: ARE BASAL GANGLIA IMPLIED IN VERBAL AUTOMATISMS?

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498 VOLUNTARY AND REFLEXIVE SACCADIC EYE MOVEMENTS IN PATIENTS WITH PARKINSON'S DISEASE

R. Bogdanov, L. Turbina, A. Litvinova, P. Ratmanova, D. Napalkov, *Russia*

499 SEQUENCE EFFECT IN DE NOVO PARKINSON'S DISEASE

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- 501 **TREATMENT OF PARKINSON'S DISEASE DEMENTIA**
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- 502 **NOVEL ADENOSINE RECEPTOR ANTAGONIST IMPROVES PARKINSONIAN SYMPTOMS AND CONSTIPATION**
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- 503 **ANKLE-BRACHIAL INDEX AS A MARKER OF DEMENTIA IN GENERAL ELDER POPULATION OF CENTRAL AFRICA IN THE EDAC STUDY**
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- 504 **DEMENTIA: RENAMING THE NEURODEGENERATIVE DISEASE IN JAPAN**
M. Miyamoto, D. George, P. Whitehouse, *Japan, USA*
- 505 **PERFORMANCE OF THE Q10 QUESTIONNAIRE FOR DIAGNOSIS OF WEARING-OFF PHENOMENA IN PARKINSON'S DISEASE**
P. Martinez-Martin, B. Hernández, The Q-10 Study Group, *Spain*
- 506 **THE MONTREAL COGNITIVE ASSESSMENT (MOCA) AND KOREAN MINI-MENTAL STATE EXAMINATION (K-MMSE) IN PARKINSON'S DISEASE**
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- 507 **TRENDS IN DEMENTIA INCIDENCE IN THE ROTTERDAM STUDY OVER THE PAST 20 YEARS**
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- 508 **FACTORS RELATED TO ORTHOSTATIC HYPOTENSION IN PARKINSON'S DISEASE**
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- 509 **EXPLORATION OF WORK ACTIVITIES AMONG PEOPLE WITH YOUNG ONSET PARKINSON'S DISEASE: STRATEGIES AND ENABLERS TO MAINTAIN WORKER ROLE**
D. Connolly, A. Doyle, O. Martin, D. Miklis, *Ireland*
- 510 **BEHAVIOR OF THE MDS-UPDRS SCALE DURING THE ACUTE L-DOPA TEST**
E. Roldan Gerschovich, D. Cerquetti, J. Balej, M. Merello, *Argentina*
- 511 **EFFECTS OF MUSIC THERAPY ON ANXIETY AND DEPRESSION IN PATIENTS WITH ALZHEIMER'S DISEASE: A RANDOMISED CONTROLLED TRIAL**
S. Guetin, F. Portet, J. Touchon, *France*

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- 513 **COMMUNICATION AND MEMORY DISORDERS, IN GREEK PD AND PDD PATIENTS. A COMPARATIVE STUDY AND CORRELATION BETWEEN DIFFERENT ASSESSMENTS**
D. Tafiadis, G. Nasios, S. Konitsiotis, *Greece*
- 514 **COGNITIVE DECLINE IN PARKINSON'S DISEASE: A 5-YEAR FOLLOW-UP STUDY**
M. Broeders, R. de Bie, H. Speelman, D. Muslimović, B. Schmand, CARPA Study Group, *The Netherlands*
- 515 **COGNITIVE TRAINING: AN ALTERNATIVE REHABILITATION PROGRAM IN PARKINSON'S DISEASE, A PILOT STUDY**
M.E. Domellöf, E. Elgh, L. Forsgren, *Sweden*
- 516 **THE RELATION BETWEEN GAIT AND COGNITION IN NEWLY DIAGNOSED PD**
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- 517 **MARKED DIFFERENCES IN BIOPTERIN METABOLISM BETWEEN PARK8 AND SPORADIC PARKINSON'S DISEASE**
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- 518 **DIAGNOSTIC CRITERIA FOR DEPRESSION IN PARKINSON'S DISEASE: A STUDY OF SYMPTOM PATTERNS USING LATENT CLASS ANALYSIS**
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- 519 **SEMANTIC AND PHONEMIC FLUENCY IN EARLY PARKINSON'S DISEASE**
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- 520 **MUSIC CARE®: AN INNOVATING MUSIC THERAPY TECHNIQUE IN THE CARE OF PATIENTS SUFFERING FROM DEMENTIA**
S. Guetin, F. Bonté, E. Lecourt, J. Touchon, *France*
- 521 **SWALLOWING RELATED QUALITY OF LIFE AND EMST IN PARKINSON'S DISEASE**
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- 522 **DETRAINING EFFECTS AND EMST IN PARKINSON'S DISEASE**
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- 524 **EXPLORATORY CLINICAL STUDY OF SYNTHETIC RETINOID ON ALZHEIMER'S DISEASE LAUNCHED IN JAPAN**
N. Yamagata, K. Shudo, *Japan*
- 525 **VISUAL ATTENTIONAL ASSESSMENT IN MILD COGNITIVE IMPAIRMENT AND ALZHEIMER'S DISEASE - RELATIONSHIP TO INTER-HEMISPHERIC METABOLIC IMBALANCES**
P. Redel, P. Bublak, C. Sorg, N. Myers, A. Kurz, H. Förstl, W. Schneider, H. Müller, R. Pernecky, K. Finke, *Germany*
- 526 **FITNESS TO DRIVE IN PATIENTS WITH ALZHEIMER'S DISEASE(AD): AN ASSESSMENT USING THE N-TYPE DRIVING FITNESS TEST MACHINE (NDFTM)**
Y. Nishimura, *Japan*
- 527 **CLINICAL-TOMOGRAPHIC CORRELATIONS IN DIAGNOSTICS OF MIXED DEMENTIA**
N. Mikhaylova, *Russia*
- 528 **COUNTRY DIFFERENCES IN ASSESSNG UPDRS PART III**
A. Kott, J. Swartz, *Czech Republic, UK*
- 529 **PRESENCE HALLUCINATION IN PATIENTS WITH PARKINSON DISEASE - IS REALLY AN EXTENSION OF VISUAL HALLUCINATION AND RELATED TO LEVO-DOPA?**
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- 530 **EARLY DIAGNOSTIC AND NEUROPSYCHOLOGICAL MONITORING OF TREMOR FORM OF PARKINSON'S DISEASE**
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- 531 **THE PARKINSON'S UK TISSUE BANK AT IMPERIAL COLLEGE**
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- 532 **PARKINSON'S DISEASE AND ALZHEIMER'S DISEASE DIFFERENTIALLY IMPACT EGOCENTRIC AND ALLOCENTRIC NAVIGATION LEARNING ON VIRTUAL REALITY TESTS**
K.L. Possin, R. Fernandez, G. Kang, L. Gritzer, S. Sha, N. Schuff, B.L. Miller, J.H. Kramer, *USA*
- 533 **MAJOR FACTORS ATTRIBUTING TO PROGRESSION OF ALZHEIMER'S DISEASE IN KOREA; EPIDEMIOLOGIC & BIOLOGICAL MARKER STUDY**
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- 535 **NON LIVING CONCEPTS ARE BETTER PROCESSED IN MALES THAN IN FEMALES WITH ALZHEIMER'S DISEASE IN AN EPISODIC MEMORY TASK**
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- 536 **CAREGIVER BURDEN AND COGNITIVE FUNCTIONING IN PARKINSON DISEASE**
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- 537 **SELF-REFERENCING IN ALZHEIMER'S DISEASE: AN EFFICIENT ENCODING STRATEGY IN EPISODIC MEMORY**
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- 538 **SMELL IDENTIFICATION TEST AS A PROGRESSION MARKER IN ALZHEIMER'S DISEASE**
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- 539 **IDENTIFICATION OF RISKY MILD COGNITIVE IMPAIRMENT BY MINI-MENTAL STATE EXAMINATION**
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- 540 **CLASSIFICATION OF ALZHEIMER'S PATIENTS USING A RULE-OUT DIAGNOSTIC BASED APPROACH**
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- 543 **CAUDATE AND PUTAMEN VOLUMES ARE RELATED TO COGNITIVE PERFORMANCE IN PARKINSON'S DISEASE WITHOUT DEMENTIA**
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- 544 **NOVEL MECHANISMS OF STRESS-INDUCED MOOD AND COGNITIVE IMPAIRMENT - THE PATH FROM DEPRESSION TO ALZHEIMER'S DISEASE**
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- 546 **LRRK2 MODULATION OF WNT SIGNALLING CASCADES IN PARKINSON'S DISEASE**
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- 547 **EFFECTS OF WILD-TYPE AND G2019S MUTANT LRRK2 ON THE PROGRESSION OF TAU PATHOLOGY**
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- 548 **BEHAVIOURAL PHENOTYPING OF G2019S KNOCK-IN LEUCINE-RICH REPEAT KINASE 2 (LRRK2) TRANSGENIC MICE**
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- 550 **LRRK2 AND PINK1 ANTAGONIZE TO CONTROL RHO/RAC GTPASE ACTIVITY**
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- 552 **A ROLE FOR PARKINSON DISEASE-LINKED LRRK2 IN THE INNATE IMMUNE SYSTEM**
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- 553 **LRRK2 EXPRESSION IN THE BRAINSTEM AND OLFACTORY BULB OF PATIENTS WITH INCIDENTAL LEWY BODY DISEASE AND SPORADIC PARKINSON'S DISEASE**
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- 554 **ACTIVITY AND SELF-INTERACTION OF ENZYMATIC DOMAINS FROM THE PARKINSONISM-ASSOCIATED PROTEIN KINASE LRRK2**
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- 556 **EFFECTS OF DISEASE-RELEVANT ALPHA-SYNUCLEIN- AND LRRK2 - MUTANTS ON NEURITAL DYNAMICS IN PRIMARY MIDBRAIN DOPAMINERGIC NEURONS**
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- 557 **LRRK2 IMPAIRS AUTOPHAGIC FLUX THROUGH A CALCIUM-DEPENDENT PATHWAY INVOLVING NAADP**
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- 559 **INTERACTIONS BETWEEN HEPARAN SULFATE AND LRP1 IN CELLULAR UPTAKE OF AMYLOID-BETA**
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- 560 **REGULATION OF LRRK2 LOCALIZATION, CONFORMATION AND ACTIVITY**
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- 561 **INVESTIGATION OF LRRK2 SIGNALLING PATHWAYS IN A TETRACYCLINE-INDUCIBLE CELL EXPRESSION SYSTEM**
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- 563 **VIRAL VECTOR MEDIATED-EXPRESSION OF LRRK2 IN THE RAT SUBSTANTIA NIGRA**
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- 564 **GENERATION AND VALIDATION OF LRRK2 PHOSPHO SPECIFIC ANTIBODIES AS A TOOL FOR DEVELOPMENT OF CELL BASED ASSAYS IN PD DRUG DISCOVERY**
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- 566 **THE EFFECTS OF ALLERGY ON THE BRAIN WITH FOCUS ON INFLAMMATORY ASPECTS AND ALZHEIMER'S DISEASE**
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- 567 **NEURONS ASSOCIATED WITH AGGREGAN-BASED PERINEURONAL NETS ARE PROTECTED AGAINST TAU PATHOLOGY IN SUBCORTICAL REGIONS IN ALZHEIMER'S DISEASE**
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- 568 **L-DOPA INDUCES CHANGES IN METHYLATION METABOLITES, PP2A DEMETHYLATION AND HYPER-PHOSPHORYLATION OF TAU PROTEIN IN MOUSE BRAIN**
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- 569 **IDENTIFICATION OF PROTEINS THAT FORM COMPLEXES WITH TAU IN MOUSE BRAIN**
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- 570 **DIFFERENTIAL CHANGES ON TAU PHOSPHORYLATION INDUCED BY GSK3 ACTIVITY IN HIPPOCAMPAL SLICES FROM YOUNG AND AGED RATS**
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- 571 **ER STRESS IS ASSOCIATED WITH THE PHOSPHORYLATION OF TAU - AN *IN VITRO* STUDY**
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- 572 **NOVEL TRANSGENIC RAT MODEL FOR HUMAN TAUOPATHY SHOWS NO NEURONAL LOSS DESPITE OF PROGRESSIVE NEUROFIBRILLARY DEGENERATION IN THE CORTEX**
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- 573 **FEATURES OF NEUROINFLAMMATION IN TRANSGENIC RAT EXPRESSING MISFOLDED TAU PROTEIN VARY WITH GENETIC BACKGROUND AND INFLUENCE THE VULNERABILITY TO THE NEURODEGENERATION**
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- 574 **ANALYSIS OF GENE EXPRESSION IN THE HIPPOCAMPAL SUBFIELDS OF THE TG4510 TAUOPATHY MODEL**
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- 575 **TAU DEPLETION RESCUES CELLULAR AND BEHAVIOURAL DEFICITS IN ALZHEIMER TRANSGENIC MICE EXPRESSING MUTANTS APP AND PS1**
K. Leroy, K. Ando, V. Laporte, R. Dedecker, V. Suain, M. Authelet, Z. Yilmaz, J.-N. Octave, J.-P. Brion, *Belgium*
- 576 **EFFECTS OF FEMALE STEROID HORMONE DEPLETION ON TAU PATHOLOGY IN THE THY-TAU22 TRANSGENIC MODEL**
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- 577 **TAU ACCUMULATION AND ITS PHENOTYPIC CONSEQUENCES DEPEND ON THE ABUNDANCE OF 14-3-3 ISOFORMS**
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- 578 **A CELL-BASED MODEL FOR THE STUDY OF PATHOLOGICAL FORMS OF TAU PROTEIN**
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- 579 **VITAMIN C IS A SELECTIVE SCAVENGER OF MISFOLDED TAU INDUCED FREE RADICALS**
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- 580 **ONLINE SAW-BIOAFFINITY MASS SPECTROMETRY FOR STRUCTURAL AND AFFINITY CHARACTERISATION OF TAU AND A β -IMMUNE COMPLEXES**
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- 581 **SPECIFIC PHF-TAU PHOSPHORYLATION AT THR50 IS INVOLVED IN ALL DEVELOPMENTAL STAGES OF ALZHEIMER'S DISEASE**
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- 583 **AMYLOID B-PRECURSOR PROTEIN MODULATES THE PHOSPHORYLATION OF TAU**
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- 584 **ERK 1/2 AND PROTEASOME SIGNALING ARE INVOLVED IN TAU PROTEOLYSIS INDUCED BY SORBITOL**
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- 585 **DOWNREGULATION OF SELADIN IN MOUSE HIPPOCAMPUS PRODUCES HYPERPHOSPHORYLATION OF TAU BY ACTIVATING C-JUN N TERMINAL KINASE**
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- 586 **NATURAL PHENOLIC DERIVATIVES FROM OLIVE OIL AS TAU AGGREGATION INHIBITORS**
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- 587 **TRUNCATED TAU INTERACTS WITH PLASMA MEMBRANE AND PROMOTES APPEARANCE OF TAU B-SHEET STRUCTURES**
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- 588 **INTRACELLULAR PAIRED HELICAL CORE AND ASSOCIATED TO NEURONAL MEMBRANE ACTS AS INDUCERS AND PROMOTERS FOR TAU AGGREGATION**
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- 590 **HSP90 INHIBITORS MODULATE TAU HYPERPHOSPHORYLATION IN NEURONS**
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- 591 **TAU BECOMES LOCALLY MISSORTED INTO DENDRITES AFTER EXPOSURE TO ABETA-OLIGOMERS, WITH CONCOMITANT LOCAL CA⁺⁺ ELEVATION, SPINE LOSS, TAU PHOSPHORYLATION, DESTRUCTION OF MICROTUBULES, AND NEUROFILAMENT INVASION**
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- 593 **CLEAVAGE OF TAU BY CALPAIN IN ALZHEIMER'S DISEASE: THE QUEST FOR THE TOXIC 17 KD FRAGMENT**
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- 594 **TAU ENHANCES A-SYNUCLEIN AGGREGATION IN A NEURONAL MODEL OF SYNUCLEINOPATHY**
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- 595 **CHRONIC PROGRESSIVE EXTERNAL OPHTHALMOPLÉGIA (CPEO) AND PARKINSONISM ASSOCIATED WITH OPA1 MISSENSE MUTATION AND MUSCLE MTDNA MULTIPLE DELETIONS**
C. La Morgia, L. Caporali, M.L. Valentino, P. Avoni, P. Barboni, M.P. Giannoccaro, G. Rizzo, C. Tonon, R. Lodi, M. Zeviani, P. Montagna, R. Liguori, V. Carelli, *Italy*
- 596 **SINGLE IMMUNIZATION WITH HUMAN NATURALLY OCCURRING AUTOANTIBODIES AGAINST BETA AMYLOID AFTER 24 H LEADS TO ENHANCED SYNAPTOPHYSIN IMMUNOREACTIVITY AND RESTORES COGNITIVE DEFICITS IN TG2576 MICE**
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- 597 **OPTICAL IMAGING OF THE NATURE OF A-SYNUCLEIN AMYLOID FORMATION *IN VITRO* AND *IN VIVO***
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- 598 **COIL-TO-HELIX TRANSITIONS IN SYNUCLEIN FUNCTION AND AGGREGATION**
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- 599 **DISSECTING THE MECHANISMS OF NON-SPECIFIC INHIBITORS OF PROTEIN AGGREGATION**
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- 601 **CHARACTERIZATION OF A NOVEL TRANSGENIC MODEL WITH HUMANIZED SPLICING OF TAU EXON 10**
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- 603 **RESCUE OF PROGRANULIN DEFICIENCY ASSOCIATED WITH FRONTOTEMPORAL LOBAR DEGENERATION BY ALKALIZING REAGENTS AND INHIBITION OF VACUOLAR ATPASE**
C. Haass, *Germany*
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- 605 **STEM CELL FOR THE TREATMENT OF PARKINSON DISEASE: INVOLVEMENT OF CALCIUM CALMODULIN DEPENDENT PROTEIN KINASES I AND IV IN PARKINSON DISEASE**
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- 606 **DIFFUSION TENSOR IMAGING IN THE THALAMUS - A NEW APPROACH TO UNDERSTANDING PARKINSON'S DISEASE**
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- 607 **SIGNIFICANCE OF POSTUROGRAPHY AND SENSORIMOTOR CHRONOMETRY IN PATIENTS WITH PARKINSON'S DISEASE**
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- 608 **PREHYPERTENSION, HYPERTENSION, AND THE RISK OF PARKINSON'S DISEASE: THE NATIONAL FINRISK STUDY**
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