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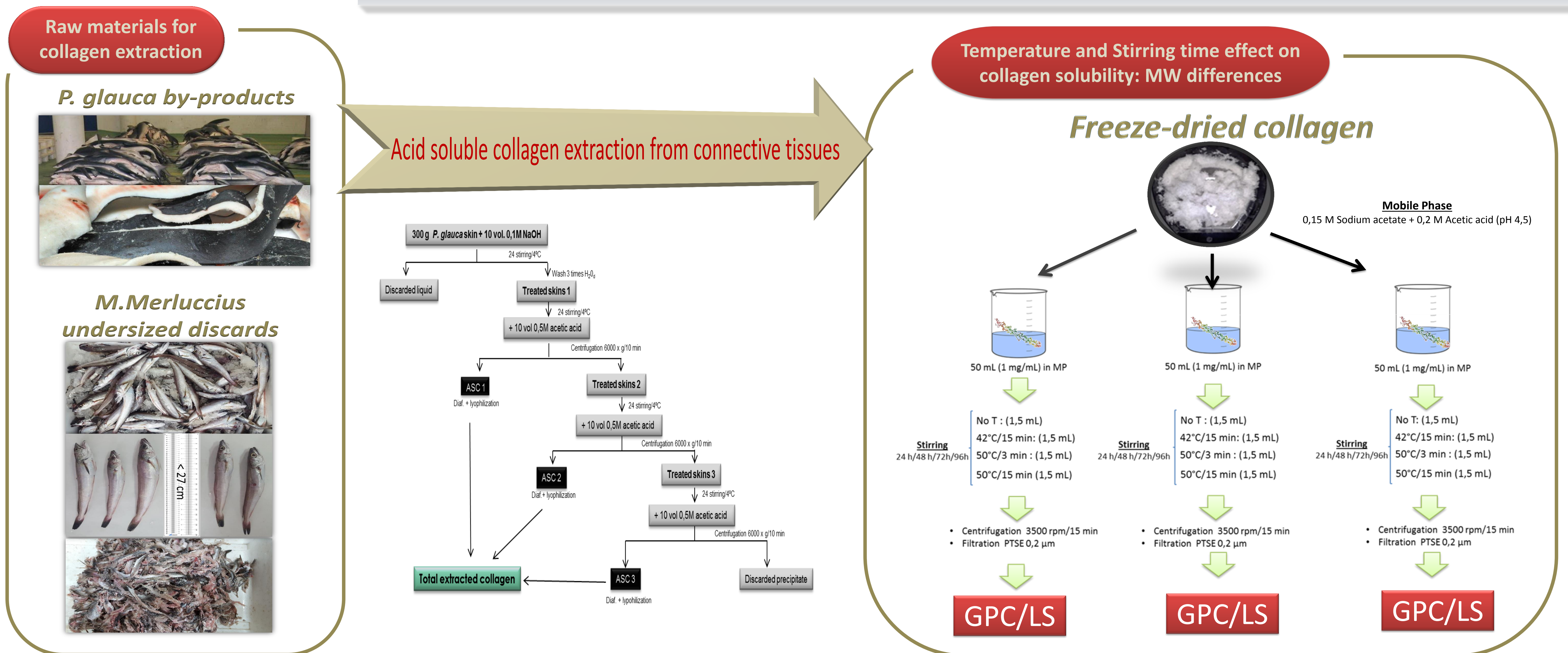
INTRODUCTION AND OBJECTIVE

The new reform of the **Common Fisheries Policy (CFP)** and other EU policy marine approaches such as **Blue Growth** and **2020 EU strategy** are focused on the development of a sustainable **socioeconomic and environmental growth** in the marine and maritime EU region. To achieve this goal the **valorization** and **biotechnological transformation** of raw marine materials (**discards and by-products**) for the isolation of **valuable biocompounds** useful for different applications might be crucial. **Merluccius merluccius** discards due to **Minimum Landing Size** restrictions imposed by the Landing Obligation included in the new CFP and **Prionace glauca** skin byproducts are susceptible to be valorized based on the higher collagen content of its connective tissues.

The **aim of this work** was to study and compare the effect of temperature and stirring time conditions on the solubility of *P. glauca* collagen and *M. merluccius* collagen in mobile phase using GPC-LS to determine molecular weight differences.

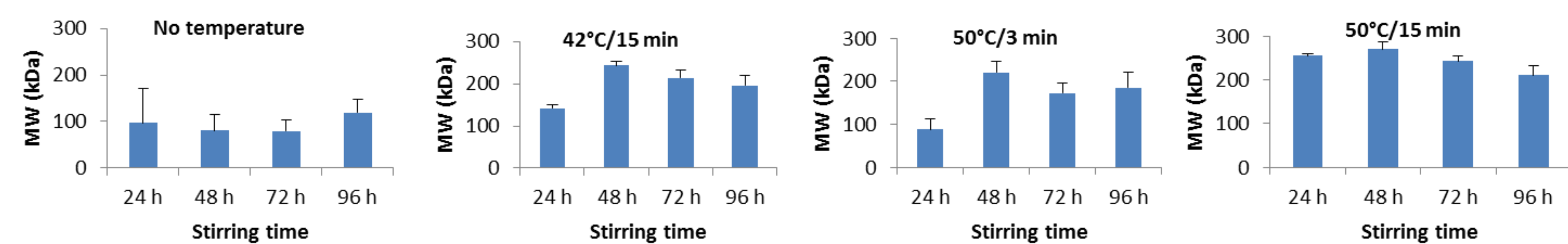


EXPERIMENTAL WORK

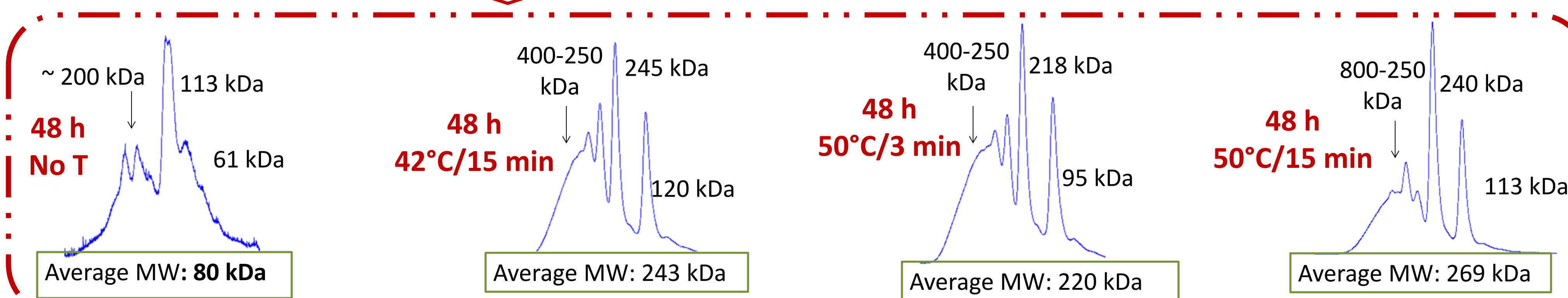
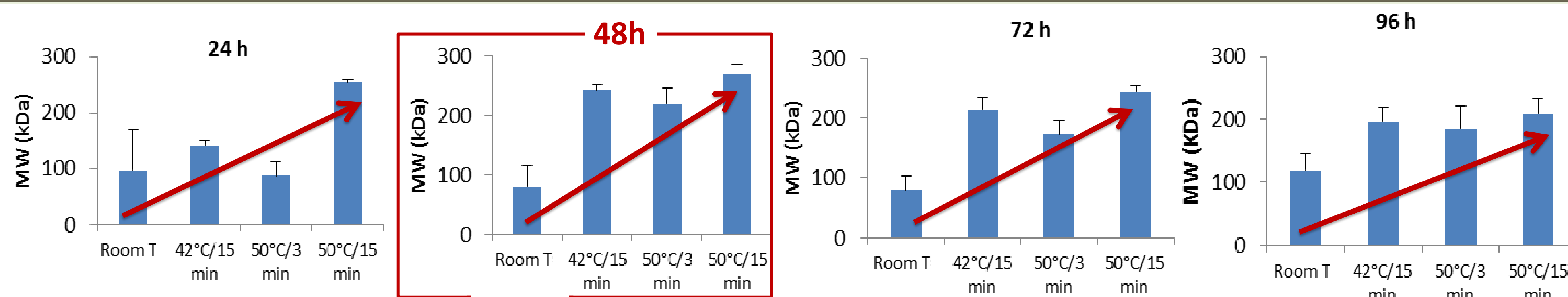


RESULTS AND CONCLUSIONS

P. glauca: Stirring time effect



P. glauca: Temperature effect



M. merluccius:

There is no influence of temperature and stirring time effect on *M. merluccius* collagen solubility in mobile phase.

P. glauca:

- No effect of stirring time increments is observed on the solubility of collagen if no temperature is applied
- There is a positive effect of temperature on solubilization of high MW components in all the stirring times analyzed.
- Higher MW components are observed after 48h stirring and when 50°C is applied for 15 minutes just after.
- Higher MW components are obtained after 48h of stirring in the temperatures/incubation times assayed.

ACKNOWLEDGEMENTS

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