

Supplementary Files

Table S1. Quantification of viral pathogens in irrigation water and fresh produce samples. Values are expressed in GC/L for irrigation water samples and in GC/25 g for food samples. ND: Not Detected.

		HAdV	NoV GI	NoV GII	HEV
Production Site 1	GW1.1	ND	ND	2.37×10^2	ND
	GW1.2	ND	ND	2.51×10^2	ND
	GW1.3	ND	ND	ND	ND
	GW1.4	ND	ND	ND	ND
	LET1.1	ND	ND	ND	ND
	LET1.2	ND	ND	ND	ND
	LET1.3	ND	ND	ND	ND
	LET1.4	ND	ND	4.35×10^2	ND
	STR1.1	ND	ND	3.26×10^2	ND
	STR1.2	ND	ND	2.55×10^2	ND
	STR1.3	ND	ND	ND	ND
	STR1.4	ND	ND	ND	ND
	STR1.5	ND	ND	ND	ND
	STR1.6	ND	ND	ND	ND
	STR1.7	ND	ND	ND	ND
	STR1.8	ND	ND	ND	ND
	PAR1.1	6.05×10^2	ND	ND	ND
	PAR1.2	ND	ND	ND	ND
PAR1.3	ND	ND	ND	ND	
PAR1.4	ND	ND	ND	ND	
Production Site 2	GW2.1	ND	ND	9.02×10^0	ND
	GW2.2	ND	ND	1.96×10^2	ND
	GW2.3	ND	ND	ND	ND
	GW2.4	ND	ND	ND	ND
	LET2.1	1.40×10^1	ND	ND	ND
	LET2.2	ND	ND	ND	ND
	LET2.3	3.02×10^2	ND	ND	ND
	LET2.4	ND	ND	3.35×10^2	ND
Production Site 3	RIV3.1	ND	ND	1.34×10^1	ND
	RIV3.2	ND	ND	ND	ND
	RIV3.3	ND	ND	ND	ND
	RIV3.4	ND	ND	ND	ND
	LET3.1	1.03×10^2	ND	ND	ND
	LET3.2	ND	ND	ND	ND
	LET3.3	ND	ND	ND	ND
	LET3.4	1.10×10^2	ND	ND	ND
	STR3.1	ND	ND	ND	ND
	STR3.2	4.16×10^1	ND	5.60×10^2	ND
	STR3.3	5.27×10^1	ND	ND	ND
	STR3.4	ND	ND	ND	ND
	PAR3.1	ND	ND	2.44×10^1	ND
	PAR3.2	8.83×10^2	ND	7.12×10^1	ND
	PAR3.3	8.76×10^2	ND	9.68×10^0	ND
	PAR3.4	ND	ND	9.64×10^0	ND
Llobregat river	LLRIV.1	3.47×10^4	6.36×10^3	1.33×10^4	ND
	LLRIV.2	5.99E+03	1.01×10^4	4.75×10^4	ND
Treated wastewater	SE	8.99×10^4	3.77×10^3	ND	ND
	WFPE	1.88×10^5	9.49×10^3	6.64×10^2	ND

Table S2. Reads obtained from each viral assignment in irrigation water, strawberry, lettuce and parsley samples using target enrichment sequencing. Colors represent the specific host of vertebrate viruses, legend can be found under the table.

Host	Family	Assignment	Production Site 1		Production Site 2	Production Site 3			Llobregat river	Treated wastewater	
			GW1	STR1.1		GW2	RIV3	LET3.4		PAR3.2	LLRIV.1
Bacteria	<i>Inoviridae</i>	Uncultured phage WW-nAnB			12				49		
	<i>Levivirus</i>	Acinetobacter phage AP205				3					
		Escherichia virus MS2			90	62		4	6		18,808
	<i>Microviridae</i>	Bdellovibrio virus MH2K							10		
		Escherichia virus phiX174					4	2	4		
		Gokushovirinae Bog1183_53							2		
		Gokushovirinae GAIR4	18,239	18	38				53		22
	<i>Myoviridae</i>	Gokushovirinae GNX3R			7						
		Salmonella phage RE-2010		4							
	<i>Myoviridae</i>	Salmonella virus Fels2		16							
		<i>Podoviridae</i>	Uncultured crAssphage								2
	<i>Siphoviridae</i>	Salicola phage CGphi29				14					
		Salmonella virus SP31			61						
		Serratia phage Eta			385						
Streptococcus virus Sfi19								20			
Human	<i>Astroviridae</i>	Astrovirus MLB1						4			
		Astrovirus MLB2						6			
		HMO Astrovirus A						18			
		Mamastrovirus 1				255			752		24
	<i>Caliciviridae</i>	Norovirus GI							20		
		Norovirus GII						3	115		
	<i>Circoviridae</i>	Human associated cyclovirus 6	2,026							18	

	<i>Parvoviridae</i>	Adeno-associated virus - 2			3	187			573		89
		Human bocavirus 3							62		
	<i>Picornaviridae</i>	Aichivirus A				73			155		
		Salivirus A				159			40	101	90
Invertebrates	<i>Dicistroviridae</i>	Aphid lethal paralysis virus	2,013	2	8	135				3,798	
		Big Sioux River virus	18								
		Kashmir bee virus	437		10						
		Rhopalosiphum padi virus		4						11,283	
	<i>Genomoviridae</i>	Tick associated genomovirus 3	8,254								
	<i>Iflaviridae</i>	Sacbrood virus	24				14				
		Varroa destructor virus 1	28								
	<i>Iridoviridae</i>	Invertebrate iridescent virus 31					4				
	<i>Parvoviridae</i>	Anopheles gambiae densovirus								6	
		Dipteran ambidensovirus 1								28	
		Junonia coenia densovirus					4				
	Unclassified	Giant house spider associated circular virus 2				190					
		Odonata-associated circular virus-18									18
	Unclassified <i>Picornavirales</i>	Biomphalaria virus 2								2	
	Unclassified <i>Riboviria</i>	Beihai permutotetra-like virus 2	2								
		Changjiang picorna-like virus 14					10				
Hubei picorna-like virus 15						8				28	
Hubei picorna-like virus 51						8					
Other Vertebrates	<i>Astroviridae</i>	Feline astrovirus 2				139			586		
		Porcine astrovirus 4				54					
	<i>Caliciviridae</i>	Sapovirus GIII							16		
	<i>Genomoviridae</i>	Equine associated gemycircularvirus 1	66								
		Gerygone associated gemycircularvirus 1				4					
		Gerygone associated gemycircularvirus 2	503								
		Pteropus associated gemycircularvirus 2				73					
Sewage derived gemykibivirus 1						24					

	<i>Parvoviridae</i>	Carnivore bocaparvovirus 2							152		21	
		Parus major densovirus	24									
		Porcine bocavirus 3							12			
		Porcine bocavirus 4-1							50			
		Porcine parvovirus							6			
		Primate bocaparvovirus 2							65		8	
		Rodent protoparvovirus 1							76			
		Ungulate bocaparvovirus 4							7			
<i>Picornaviridae</i>	Norway rat hunnivirus							8				
Plant	<i>Alphaflexiviridae</i>	Pepino mosaic virus							10			
	<i>Rhabdoviridae</i>	Lettuce big-vein associated varicosavirus					14					
	<i>Tombusviridae</i>	Cucumber necrosis virus								12		
		Moroccan pepper virus			6							
		Tobacco necrosis virus D				4						
		Tomato bushy stunt virus			4							
	<i>Unclassified Riboviria</i>	Tobacco virtovirus 1				11						
	<i>Virgaviridae</i>	Bell pepper mottle virus								4		
		Cucumber green mottle mosaic virus				153				27	14	13
		Pepper mild mottle virus				138				1,404	172	44
Tobacco mosaic virus									4			
Tomato mosaic virus					52	2			3,082	984	266	
Unknown	<i>Genomoviridae</i>	Sewage derived gemycircularvirus 1			80							
		Sewage derived gemykibivirus 2			6							
	<i>Unclassified</i>	Sewage-associated circular DNA virus-20									23	
		Sewage-associated circular DNA virus-27				98						

