Curriculum Vitae - Nele Villabruna

	Personal Informa	ation_	
Research Cen	of Pathology & Institute of Biochemistry ter for Emerging Infections and Zoonoses (RIZ) Veterinary Medicine Hannover ver	Tel. +49-511-953-6144 E-Mail: nele.villabruna@tiho- ORCID: 0000-0003-2147-017	
	<u>Education</u>		
2016–2022	PhD Program , Department of Viroscience, Erasmus MC, Rottderdam, The Netherlands PhD Thesis: Human norovirus emergence and circulation in humans and animals (Link to thesis) Supervision: Dr. Miranda de Graaf, Prof. Marion Koopmans		
2013–2014	Master of Research in Applied Marine Sciences, University of Plymouth, UK (graduated with Distinction) Master Thesis: Characterisation of the Emiliania huxleyi virus protein EHV298 Supervision: Prof. Mike Allen, Dr. Colin Munn		
2009–2013	Bachelor of Science in Biology , University of Basel, Switzerland Major in biology of infection and epidemiology, plant biology, cell biology and neurobiology, and zoology and evolutionary biology		
2008	Matur (=Abitur), Gymnasium Leonhard, Basel, Switzerland		
	Research Experie	nce_	
Since 2024	Project Leader (Walter Benjamin Position) Department of Pathology, Research Center for Emerging Infections, and Zoonoses (RIZ), University of Veterinary Medicine Hannover, Germany Project: Norovirus interspecies transmission barriers and susceptibility factors		
2023–2024	Postdoctoral Fellow (Pilot Project financed by the National Research Platform on Zoonoses) Institute of Biochemistry, Research Center for Emerging Infections, and Zoonoses (RIZ), University of Veterinary Medicine Hannover, Germany Group: Prof. Dr. Gisa Gerold Project: Development of an ex-vivo model to study zoonotic norovirus transmission		
2015–2016	Reasearch Assistant, Department of Infectious Disease, Virology, Heidelberg University, Germany Project: Late endosomal trafficking and fusion of <i>phleboviruses</i> Supervision: Dr. Pierre-Yves Lozach		y, Germany
	<u>Awards</u>		
2024–2026 2023–2024 2022 2020 2019 2018	Walter Benjamin Position, 542416050, German F Postdoc Pilot Project, 01Kl2310, National Research ORKG curation grant Microbiology&Virology (Ger Travel Award 39 th Annual meeting of the America Travel Grant 7 th International Calicivirus Conferen Travel Award 37 th Annual meeting of the America	ch Platform on Zoonoses man National Library of Medicine) n Society of Virology, USA ce, Australia	221.796 € 198.361 € 2.400 € 500 US\$ 1.500 AU\$
2015	Plymouth Marine Laboratory Prize for Outstandin Research Project	,	100 f

Other Activities			
2025	Organizing and Chairing the jGfV session during the 34 th Annual Meeting of the Society for Virology in Hamburg		
2024	Organizing and Chairing the jGfV session during the 33 rd Annual Meeting of the Society for Virology in Vienna		
2023-2025	Student Representative in the Board of the young Society for Virology (jGfV)		
2021	Teaching of the Mastercourse Lecture "Pathogenesis & evolution: Gastrointestinal disease: Noro-& rotaviruses"		
2018	Organisation of the workshops for PhD students and postdocs "How to communicate your science", ErasmusMC, Rotterdam, The Netherlands		
2016-2022	Organisation of the Virology Journal Club, ErasmusMC, Rotterdam, The Netherland		
2016-2021	Supervision of Master students and technical assistants, ErasmusMC, Rotterdam, NL		
Since 2016	Reviewing Journal of Emerging Diseases (ISSN: 1080-6040), Germs (ISSN: 2248- 2997), PLoS One (ISSN: 1932-6203), and Open Life Sciences (ISSN: 2391-5412).		
Presentations (selection)			
2024	Development of an <i>ex vivo</i> model to study the zoonotic transmission of noroviruses (Poster) 33 rd Annual Meeting of the Society for Virology, Vienna, Austria		
2023	Insights into the role of the norovirus polymerase on virus emergence (Poster) 8 th International Calicivirus Conference, Rotterdam, The Netherlands		
2022	Human noroviruses attach to intestinal tissues of a broad range of animal species (Talk) 1 st Workshop One Health and Zoonotic Viruses, Goslar, Germany		
2020	Immunogenicity and specificity of antibody response against the norovirus capsid protein and non-structural proteins (Flash talk & Poster) 39 th Annual Meeting of the American Society of Virology, Fort Collins, USA		
2019	The pattern of norovirus attachment varies among species (Talk) 7th International Calicivirus Conference , Sydney, Australia		
2019	Can norovirus jump the species barrier? (Poster & Pitch) General Meeting of the Netherland Centre for One Health, Nijmegen, the Netherlands		
2019	Norovirus attachment to intestinal tissue of different species (Poster) 7th European Congress of Virology , Rotterdam, The Netherlands		
2019	Norovirus attachment to intestinal tissue of different species (Talk & Poster) Young COMPARE meeting, Copenhagen, Denmark		
2018	Profiling of antibody responses to structural and non-structural proteins after norovirus infection (Talk)		
2212	37 th Annual Meeting of the American Society of Virology, Madison, USA		
2018	Serological responses to norovirus structural and non-structural proteins after infection (Talk & Poster) Young COMPARE Meeting, Copenhagen, Denmark		
2017	Serological responses to norovirus structural and non-structural proteins after infection (Talk)		
	Young Antigone Meeting, Cambridge, UK		
2015	Late endosomal trafficking and fusion of <i>phleboviruses</i> (Talk) Cell Biology of Viral Infections Workshop , Schöntal, Germany		

Publications

- 1) Izquierdo-Lara RW, **Villabruna N**, Hesselink DA, Schapendonk CME, Ribó Pons S, Meier JIJ, Goodfellow I, Dalm V, Fraaij PLA, van Kampen J, Koopmans MPG, de Graaf M. (**2024**) Patterns of the Within-Host Evolution of Human Norovirus in Immunocompromised Individuals and Implications for Treatment. <u>eBioMedicine</u>, <u>109</u>. doi.org/10.1016/j.ebiom.2024.105391 (<u>Link</u>)
- Villabruna N, Izquierdo-Lara RW, Schapendonk CME, de Bruin E, Chandler F, Thao TTN, Westerhuis BM, van Beek J, Kohns Vasconcelos M, Sigfrid L, Giaquinto C, Goossens H, Bielicki JA, Fraaij PLA, Koopmans MPG and de Graaf M. (2022) Profiling of humoral immune responses to norovirus in children across Europe. Scientific Reports, 12(1): p.14275. doi.org/10.1038/s41598-022-18383-6 (Link)
- Van Kampen JJA, Dalm VASH, Fraaij PLA, Oude Munnink BB, Schapendonk CME, Izquierdo-Lara RW, Villabruna N, Ettayebi K, Estes MK, Koopmans MPG, de Graaf M. (2022) Clinical and in-vitro evidence favoring immunoglobulin treatment of a chronic norovirus infection in a patient with common variable immunodeficiency. The Journal of Infectious Diseases, 226(19): p.1781-1789. doi.org/10.1093/infdis/jiac085 (Link)
- 4) **Villabruna N**, Schapendonk CME, Aron GI, Koopmans MPG, de Graaf M. (**2021**) Human noroviruses attach to intestinal tissues of a broad range of animal species. <u>Journal of Virology</u>, 95(3). doi.org/10.1128/JVI.01492-20 (<u>Link</u>)
- 5) **Villabruna N**, Izquierdo Lara RW, Szarvas J, Koopmans MPG and de Graaf M. (**2020**) Phylogenetic investigation of norovirus transmission between humans and animals. <u>Viruses</u>, 12(11): p.1287. doi.org/10.3390/v12111287 (<u>Link</u>)
- 6) **Villabruna N**, Koopmans MPG, de Graaf M. (**2019**) Animals as reservoir for human norovirus. <u>Viruses</u>, 11(5): p.478. doi.org/10.3390/v11050478 (<u>Link</u>)
- 7) De Graaf M, **Villabruna N**, Koopmans MPG. (**2017**) Capturing norovirus transmission. <u>Current Opinion in Virology</u>, 22: p.64-70. doi.org/10.1016/j.coviro.2016.11.008 (<u>Link</u>)