CURRICULUM VITAE

Dr. Tessa E. F. Quax

CURRENT MAJOR SCIENTIFIC INTERESTS

Archaeal virus-host interactions and archaeal cell biology: Infection mechanisms of archaeal viruses, such as viral entry and egress, interplay of viruses with the archaeal cell envelope and cell surface structures, spatiotemporal organization of the viral infection process in the archaeal cell, virus evolution.



CURRENT POSITION

2021-present **Associate Professor**, adjunct-hoogleraar, Biology of Archaea and Viruses, Groningen Biomolecular Sciences and Biotechnology Institute, University of Groningen, NL.

PREVIOUS POSITION(S)

- 2019-2021 **Emmy Noether Research Group Leader** at Faculty of Biology of the Freiburg University. Subject: *Archaeal virus-host interactions*.
- 2018-2019 Principal investigator at the Faculty of Biology of the Freiburg University. This position was funded by the **Margarete von Wrangell Habilitations Programm**. Subject: *Motility and intracellular organization of euryarchaea*.
- 2018 **Post-doctoral Carl Zeiss fellow** at Freiburg University, Germany in the group of Prof. Dr. Albers. This position is funded by a personal grant from the Carl-Zeiss Stiftung. Subject: *Chemotaxis and motility in euryarchaea*.
- 2014-2017 **Post-doctoral EMBO and Marie-Curie fellow at Freiburg University**, in the group of Prof. Dr. Albers. This position was funded by a personal post-doctoral EMBO grant from the European Molecular Biology Organization (EMBO) and a Marie-Curie Fellowship from the European Commission. Subject: *Chemotaxis and motility in euryarchaea*.
- 2013-2014 **Pegasus Marie-Curie Fellow at Leuven University**, Belgium, within the Division of Gene Technology headed by Prof. Dr. Lavigne. This position was funded by a

personal post-doctoral Pegasus grant from the Flemish Scientific Organisation (FWO). Subject: Characterisation of protein functions of the archaeal virus SIRV2.

EDUCATION

2018-2021	Habilitation at Freiburg University completed on June 15 th , 2021
2009- 2013	PhD student, double degree at the Institut Pasteur (Paris, France), under supervision of Prof. dr. Patrick Forterre and Dr. David Prangishvili and at Wageningen University (The Netherlands), under supervision of Prof. dr. John van der Oost. Title of project: "Archaeal virus host interactions". Date of defence: 06-12-2013. Judicium: très honourable (Top 5% of PhD students).
2007- 2009	Prestige Research Master Biomolecular sciences, of the Graduate School Life Sciences of Utrecht University, the Netherlands. (<i>cum laude</i> . Top 10% of students).
2007- 2009	Xtrack extracurricular Master program for outstanding students of the Graduate School of Life Sciences of Utrecht University. (Top 2% of students).
2004-2007	Bachelor of Science (Biology), Utrecht University, the Netherlands. (<i>cum laude</i> , Top 10% of students).

HONOURS AND AWARDS

2022

Beijerinck Premie 2022, awarded by the Royal Netherlands Academy of Arts and Sciences (KNAW) to a young scientist performing excellent virus-related research, the Netherlands (€25000)

2021

- KNAW Early Career Award in the domain 'natural sciences and engineering', one of 3 awards in this domain that are awarded yearly by the Royal Netherlands Academy of Arts and Sciences to early career scientist with innovative and original ideas, the Netherlands (€15000)
- Hector Research Career Development Award (Hector RCD Award), awarded by the Hector Fellow Academy, Germany (€25000)

2015

FEMS 2015 Poster prize, awarded at the FEMS meeting in Maastricht, the Netherlands. (€ 500)

2014

 Louist Forest prize for best PhD thesis in the Life Sciences from 2013. This prize is one of the "prix solennels de chancellerie des universities de Paris" and is awarded yearly to two

- young doctors who obtained their PhD from one of the ~20 Parisian universities and grand ecoles. Awarded by the Chancellerie de Paris (€10.000).
- Westenbrink prize for best thesis in the Biochemistry and Molecular Biology from the Netherlands in the academic year 2013-2014. Awarded by the NVBMB (Dutch Society for Biochemistry and Molecular Biology) (€2.000).
- One of two honorary mentions of the Nat Sternberg thesis prize, awarded by the 'Molecular biology of Phage and Bacteria' meeting organizers.

2013

■ **Poster prize** received at the International Gordon Research Conference on "Archaea", Lucca, Italy (2013). (\$ 200).

2012

"Best poster award" received at the International meeting "Molecular Biology of Archaea 3", Marburg, Germany (2012). (€ 250)

2009

- "Best research proposal" Xtrack award of the Graduate School of Life Sciences of Utrecht University. (€ 5.000).
- "Best oral presentation" as judged by the audience at the Biomolecular Sciences Seminar Day, Utrecht University. (€ 250)

RESEARCH GRANTS

2023

- Vidi grant from the Dutch Science Organization (NWO), €800.000
- Coordinator of Human Frontier Science Program Young Investigator grant (\$ 1.500.000 total, \$375.000 individual)
- Coordinator of Marie-Curie Doctoral Network ARCTECH funded by the European Commission (€2.700.000 total €580.000 individual)

2022

■ ERC starting grant, awarded by the European Research Council (€1.500.000)

2021

- Individual Project in **Priority Program 'Prokaryotic Viruses'**, SPP 2330, from the German Science Foundation (DFG) (€263.000)
- Hector RCD Award from the Hector Fellow Academy. (€189.000)

2019

Emmy Noether Independent Research grant, from the German Science Foundation (DFG). (€1.500.000)

2018

Fellowship from the **Margarete von Wrangell Habilitations Programm,** from the Ministerium für Wissenschaft Forschung und Kunst Baden-Württemberg (€350.000)

2017

 Carl Zeiss Post-doctoral fellowship, from the Ministerium für Wissenschaft Forschung und Kunst Baden-Württemberg (€180.000) 2013

- Marie-Curie Intra European post-doctoral fellowship of the European Commission. (€162.000)
- **EMBO post-doctoral fellowship** awarded by the European Molecular Biology Organization (EMBO) (€74.000)
- Rubicon post-doctoral fellowship of the Dutch Science Organisation (NWO) (€130.000)
- Pegasus Marie-Curie post-doctoral fellowship awarded by the Flemish Scientific Organisation (FWO) (€70.000)

2009

• PhD grant for three years from the French government via University Paris VI.

TRAVEL GRANTS

2015

FEMS (Federation of European Microbiological Societies) **Young Scientists Meeting Grant** to attend the 'FEMS' meeting in Maastricht, the Netherlands. (€ 500)

2014

Travel grant to attend the Viruses of Microbes meeting in Zurich, Switzerland (€400).

2013

- FEMS (Federation of European Microbiological Societies) **Young Scientists Meeting Grant** to attend the 'Thermophiles' meeting in Regensburg, Germany. (€ 600)
- SynMikro short term exchange fellowship to support a research visit of one month at the Max Planck Institute Marburg. Awarded by the scientific board of the Center for Synthetic Microbiology in Marburg (2013). (€ 2500)
- Van Gogh travel grant for French-Dutch scientific collaboration. Awarded by the French Dutch Academy together with the Dutch Science Organisation (NWO). (€2500)

2012

Van Gogh travel grant (€2500)

2011

Eole travel grant for scientists to strengthen bonds between France and The Netherlands (2011). Awarded by the French Dutch Academy (€ 1000).

2010

FEMS (Federation of European Microbiological Societies) Young Scientists Meeting Grant to attend the 'Extremophiles' meeting in Ponta Delagada, Portugal. (€ 600)

PUBLICATIONS

*, corresponding author. #, equal contribution

H-index: 18. i10 index: 27. Total number of citations: 1661. (Google Scholar, July 2023)

- 1. Schwarzer S, Hackl T, Oksanen HM, **Quax T.E.F.*** (2023) Archaeal host cell recognition and viral binding of HFTV1 to its Haloferax host. **mBio**. 14(1):e0183322.
- 2. Patro M, van Wolferen M, Ye X, Albers SV, **Quax T.E.F.** (2022) Methods to analyse motility in Eury- and Crenarchaea. **Methods Mol Biol**. 2522:373-385
- 3. Aguirre Sourrouille Z, Schwarzer S, Lequime S, Oksanen HM, **Quax T.E.F.*** (2022) The viral susceptibility of the Haloferax species. **Viruses**. 14(6):1344
- 4. Altegoer F, **Quax T.E.F.**, Weiland P, Nußbaum P, Giammarinaro P.I., Patro M, Li Z, Oesterhelt D, Grininger M, Albers SV, Bange G. (2022) Structural insights into the mechanism of archaellar rotational switching. **Nat Commun.** 13(1):2857.
- 5. **Quax T.E.F.***, de Paepe M., Holmfeldt K. (2021) Viruses of Microbes 2020 : the latest conquests on Viruses of Microbes. <u>Viruses</u>, 13(5):802
- Tittes C, Schwarzer S, Pfeiffer F, Dyall-Smith M, Rodriguez-Franco M, Oksanen H.M., Quax T.E.F. *(2021) Cellular and genomic properties of *Haloferax gibbonsii* LR2-5, the host of euryarchaeal virus HFTV1. <u>Frontiers in Microbiology</u>, 16;12:625599.
- 7. Lewis A.M., Recalde A, Bräsen C, Counts J.A., Nussbaum P, Bost J, Schocke L, Shen L, Willard D.J., **Quax T.E.F.**, Peeters E, Siebers B, Albers SV, Kelly R.M. (2021) The biology of thermoacidophilic archaea from the order Sulfolobales. **FEMS Microbiol Rev**. 2021 Jan 21:fuaa063
- 8. Schwarzer S, Rodriguez-Franco M, Oksanen H.M., **Quax T.E.F.*** (2021) Growth phase dependent cell shape of Haloarcula. **Microorganisms**. 9(2):231
- 9. Tittes C, Schwarzer S, **Quax T.E.F.*** (2021) Viral hijack of filamentous surface structures in Archaea and Bacteria. **Viruses.** 13(2):164
- 10. Knüppel R, Trahan C, Kern M, Wagner A, Grünberger F, Hausner W, **Quax T.E.F.**, Albers SV, Oeffinger M, Ferreira-Cerca S. (2021) Insights into synthesis and function of KsgA/Dim1-dependent rRNA modifications in archaea. **Nucleic Acids Res**. doi: 10.1093/nar/gkaa1268
- 11. Nussbaum F, Ithurbide S, Walsh J, Patro M, Rodriguez M, Curmi P, Duggin I*, **Quax T.E.F.***, Albers S.V.* (2020) An oscillating MinD protein determines the cellular positioning of motility machinery in archaea. **Current Biology.** 13:S0960-9822(20)31443-3

- 12. Kinosita Y, Mikami N, Li Z, Braun F, **Quax T.E.F.**, van der Does C, Ishmukhametov, Albers S-.V., Berry R.M., (2020) Motile ghosts of the halophilic archaeon, *Haloferax volcanii*.

 Proceedings of the National Academy of Sciences USA. 117(43):26766-26772
- 13. Li Z., Rodriguez-Franco M, Albers S-.V.*, **Quax T.E.F.*** (2020). The switch complex ArlCDE connects the chemotaxis system and the archaellum. **Molecular Microbiology**. 114(3):468-479.
- 14. Mikhail G Pyatibratov M.G., Syutkin A.S., **Quax T.E.F.**, Melnik T.N., Papke R.T., Gogarten J.P., Kireev I.I., Surin A.K., Beznosov S.N., Galeva A.V., Fedorov O.V. (2020). Interaction of Two Strongly Divergent Archaellins Stabilizes the Structure of the Halorubrum Archaellum. **MicrobiologyOpen**. Apr 21:e1047
- 15. Gambelli L, Meyer B.H., McLaren M, Sanders K, **Quax T.E.F.**, Gold V.A.M., Albers S.V., Daum B (2019) Architecture and modular assembly of Sulfolobus S-layers revealed by electron cryotomography. **Proceedings of the National Academy of Sciences USA**. 116(50):25278-25286
- 16. Li Z, Kinosita Y, Rodriguez-Franco M, Nußbaum P, Braun F, Delpech F, **Quax T.E.F.***, Albers SV*. (2019) Positioning of the Motility Machinery in Halophilic Archaea. **Mbio** 10(3). pii: e00377-19
- 17. Braun F, Thomalla L, van der Does C, **Quax T.E.F.**, Allers T, Kaever V, Albers SV (2019) Cyclic nucleotides in archaea: Cyclic di-AMP in the archaeon Haloferax volcanii and its putative role. **MicrobiologyOpen**. 18:e829
- 18. Quax T.E.F.*, Albers S-.V., Pfeifer F. (2018) Taxis in archaea. Emerging Topics in Life Sciences. Nov 14, 2018
- 19. Syutkin A.S., van Wolferen M., Surin A.K., Albers S.V., Pyatibratov M.G., Fedorov O.V., **Quax T.E.F.*** (2018) Salt dependent regulation of archaellins in Haloarcula marismortui. **Microbiology Open**. 8(5):e00718
- 20. Quax T.E.F., Altegoer F., Rossi F., Li Z., Rodriguez-Franco M., Kraus F., Bange G., Albers S.-V. (2018). Structure and function of the archaeal response regulator CheY. <u>Proceedings</u> of the National Academy of Sciences USA. 115(6):E1259-E1268
- **21.** Chaudhury P.*, **Quax T.E.F.***, Albers S.-A. (2017) Versatile cell surface structures of archaea. **Molecular Microbiology**. 107 (3):298-311.
- 22. **Quax T.E.F.*** & Daum B. (2017) Structure and assembly mechanism of Virus-Associated Pyramids. **Biophysical Reviews**. 4 Dec. 2017

- 23. Debarbieux L., Fisher M., Quax T.E.F*. (2017) Viruses of Microbes. Viruses. 2017 Sep 20;9(9)
- **24.** Claassens N.J., Siliakus M.F., Spaans S.K., Creutzburg S., Nijsse B, Schaap PJ, **Quax T.E.F.**, van der Oost J. Improving heterologous membrane protein production in Escherichia coli by combining transcriptional tuning and codon usage algorithms. **PLOS One**, 2017 Sep 13;12(9):e0184355
- 25. Peeters E., Boon M., Rollie C., Willaerts R. G., Voet M., White M., Prangishvili D., Lavigne D, **Quax T.E.F***. (2017) DNA-interacting characteristics of the archaeal Rudiviral protein SIRV2_Gp1. <u>Viruses</u>, Jul 18:9(7).
- 26. Quax T.E.F., Claassens N.J., Söll, van der Oost J. (2015). Codon bias as a means to fine-tune protein expression. **Molecular Cell**. 2015 Jul 16;59(2):149-61
- 27. Quemin E. & Quax T.E.F. *, (2015) Archaeal viruses at the cell envelope: entry and egress. **Frontiers in Microbiology**, 6:552.
- 28. Pina M., Basta T., **Quax T.E.F.**, de Cian A., Baconnais S., Cortez D., Lambert S., Le Cam E., Bell S.D., Forterre F. and Prangishvili D. (2014). Eukaryotic traits of the genome replication mechanism of the hyperthermophilic archaeal virus AFV1.

 Molecular Microbiology, 92(6):1313-25
- 29. Daum B. *, Quax T.E.F. *, Sachse M., Mills D., Reimann J., Yildiz Ö., Häder S., Saveanu C., Forterre P., Albers S.-V., Kühlbrandt W. and Prangishvili D (2014). Supramolecular organisation and self-assembly of a universal pyramidal membrane remodelling system.

 Proceedings of the National Academy of Sciences USA, 111(10):3829-34
- **30.** Quemin E., Lucas S., Daum B., **Quax T.E.F.**, Kühlbrandt W., Forterre P., Albers S.-V., Prangishvili D. and Krupovic M. (2013). First insights into the entry process of hyperthermophilic archaeal viruses. **Journal of Virology**, 87:13379-85
- 31. **Quax T.E.F***., Wolf Y.I., Koehorst J.J., Wurtzel O., van der Oost R., Ran W., Blombach F., Makarova K.S., Brouns S.J.J., Forster A.C., Wagner E.G.H., Sorek R., Koonin E.V. and van der Oost J.* (2013). Differential translation tunes uneven production of operon-encoded proteins. **Cell Reports**, 4:938-44.
- 32. Quax T.E.F.*, Voet M., Sismeiro O., Dillies M.-A., Jagla B., Coppee J.-Y., Sezonov G., Forterre., van der Oost J., Lavigne R. and Prangishvili P.* (2013) Massive activation of archaeal defense genes during viral infection. Journal of Virology, 87(15): 8419-28

- 33. Snyder J.C., Brumfield S.K., Kerchner K.M., **Quax T.E.F**, Prangishvili D. and Young M.J. (2013) Insights into a viral lytic pathway from an archaeal virus-host system. **Journal of Virology**, Feb;87(4):2186-92
- 34. Prangishvili D. and **Quax T.E.F.** (2011). Exceptional virion release mechanism: one more surprise from Archaeal viruses. **Current Opinion in Microbiology**, 4(3):315-20.
 - Illustration from the article was used as cover image for this volume of Current Opinion in Microbiology.
 - The same illustration was included in the 'Picture show' from Cell Press featured as 'Petal Power'.
 - Illustration was used in the journal 'Nature', 'News and comment' section: 'Five big mysteries about CRISPR', January 2017.
- 35. **Quax T.E.F.**, Lucas S., Reimann J., Pehau-Arnaudet G., Prevost M.-C., Forterre P., Albers S.-V. and Prangishvili, D (2011). Simple and elegant design of a virion egress structure in Archaea. **Proceedings of the National Academy of Sciences USA** 108(8): 3354-3359
 - Featured as 'Editors choice' in Science, 'Viral Escape Route' February 25, 2011
 - Featured in the French scientific magazine for general public 'Sciences et avenir', 2011.
- 36. **Quax T.E.F.**, Krupovič M., Lucas S., Forterre P. and Prangishvili, D. (2010). The Sulfolobus rod-shaped virus 2 encodes a prominent structural component of the unique virion release system in Archaea. **Virology** 404:1-4
- 37. Bize A., Karlsson E.A., Ekefjärd K., **Quax T.E.F.**, Pina M., Prevost M.-C., Forterre P., Tenaillon O., Bernander R. and Prangishvili D. (2009). A Unique Virus Release Mechanism in the Archaea. **Proceedings of the National Academy of Sciences USA** 106(27):11306-11

BOOK CHAPTERS

1) Quax T.E.F.*, Albers S.-A. (2017) The role of cell surface structure in Archaea. 'Biocommunication of Archaea' Springer, Dordrecht, 2017

PATENTS

Quax T.E.F., Lucas S., Forterre P. and Prangishvili D. *Homomultimeric structure by assembly of SIRV2 P98 proteins or P98 variants, conjugate and uses thereof.*

International patent: PCT/EP2012/050902, filed January 20, 2012.

PRESENTATIONS AT CONFERENCES

2023

- Invited speaker at the KNVM (Koninklijke Nederlandse Vereniging voor Microbiologie) spring meeting.
- Invited key note speaker at the Annual Symposium of the Belgian Society for Microbiology

2022

- Invited oral presentation at the international Viruses of Microbes meeting, Guimaraes, Portugal
- Invited oral presenation at the international Molecular Biology of Archaea meeting in Frankfurt, Germany
- Invited speaker for the iVoM series, organized by the International Society for Viruses of Microbes (ISVM)

2021

- Chair and organizer of the mini-symposium on 'Viruses of Microbes' during the online annual conference of the Vereinigung für Allgemeine und Angewandte Mikrobiologie (VAAM), Germany.
- Oral presentation, SPP 2330 kick-off meeting, Cologne, Germany.

2020

- Invited oral presentation at the online Archaea Café, organized by the VAAM Special group on archaea.
- Invited oral presentation at the online International Molecular Biology of Archaea Meeting.
- Invited oral presentation at the KNVM (Koninklijke Nederlandse Vereniging voor Microbiologie) online spring meeting.
- **Invited oral presentation** at the Forterre-Prangishvili celebration meeting at Institut Pasteur , Paris, France.

2019

 Selected oral presentation and Session Chair at the annual conference of the VAAM, Wolfsburg, Germany.

2018

- Invited session chair, Viruses of Microbes Meeting, Wroclaw, Poland.
- Selected poster presentation and Session Chair, Molecular Biology of Archaea, Vienna, Austria.
- Selected oral presentation at the annual conference of the VAAM, Wolfsburg, Germany.
- Selected oral presentation, UK Archaea Workshop, Lancaster, UK.

2016

- Selected oral presentation, Molecular Biology of Archaea, London, UK.
- Selected oral presentation, Viruses of Microbes Meeting, Liverpool, UK.
- Invited oral presentation, Young Scientist Meeting Symposium, Dundee, UK.
- Invited guest lecture at the University of StAndrews, UK.
- Poster presentation at the Marie-Curie meeting in Venice, Italy.

2015

- Invited oral presentation at Zing Conference "Regulating with RNA in Bacteria and Archaea', Cancun, Mexico.
- Poster presentation on the annual international FEMS meeting in Maastricht, the Netherlands.
- Poster presentation on the Gordon Research Conference on 'Archaea', Boston, USA.
- **Selected oral presentation** at the annual conference of the VAAM.

2014

- Invited guest lecture at Biology department of the Free University of Brussels, Belgium.
- Selected oral presentation at the Molecular Biology of Archaea 4 meeting in Paris, France.
- **Selected poster presentation** at the 3nd International meeting on Viruses of Microbes, Zurich, Switzerland.
- Invited guest lecture at the Microbiology department of Otago University in Dunedin, New Zealand.

2013

- Selected poster presentation on the Gordon Research Conference on 'Archaea', Lucca, Italy.
- Oral presentation on the Microbiology Department days of the Institut Pasteur, Vichy, France.
- Invited oral presentation at the Virology Seminar series of Wageningen University, The Netherlands.

2012

- Selected poster presentation on the meeting international Molecular Biology of Archaea
 Marburg, Germany.
- Invited oral presentation on the 2nd International meeting on Viruses of Microbes, Brussel, Belgium.
- Poster presentation 'Chemistry in Relation to Biology and Medical Sciences' meeting of the Dutch Science Organisation, Veldhoven, The Netherlands.
- Selected poster presentation on the Microbiology Department days of the Institut Pasteur, Paris, France.

2011

- Selected oral presentation on the French Archaea Days, Paris, France.
- Selected oral presentation on the national meeting on Molecular Genetics organized by the Dutch science organization, Lunteren, The Netherlands.
- Selected oral presentation on the 11th International Thermophiles meeting, Montana, USA.

2010

 Selected poster presentation on the 8th International Conference on Extremophiles, Ponta Delagada, Portugal. Selected poster presentation on the Microbiology Department days of the Institut Pasteur, Paris, France.

INTERNATIONAL RESEARCH VISITS

- One week stay at **Leuven University (Belgium)** in the group of Prof. Lavigne. Goal: conduct protein-interaction experiments.
- Three week research visit to the **University of St Andrews (United Kingdom)** in the group of Prof White. Goal: investigate protein-DNA interactions of archaeal viral proteins.
- One week visit to **Nottingham University (United Kingdom**) in the group of Dr. Allers. Goal: learn genetics of Haloarchaea.
- One week stay at **Leuven University (Belgium)** in the group of Prof. Lavigne. Goal: conduct protein-interaction experiments.
- Two research visits of two weeks at the **Max Planck Institute of Biophysics in Frankfurt** (**Germany**) in the group of Prof. Kühlbrandt. Goal: perform cryo-microscopy experiments.
- One week visit to the Max Planck Institute of Terrestrial Microbiology in Marburg (Germany) in the group of Prof. Albers. Goal: generate archaeal expression mutants.
- 2010 Three week stay in the group of Prof Johnson of **The Scripps Institute, La Jolla, USA**. Goal: perform whole cell cryo- electron tomography
- Three week visit to the Max Planck Institute of Terrestrial Microbiology in Marburg (Germany) in the group of Prof. Albers. Goal: training in genetics of archaea and generation of mutants

BOARD MEMBERSHIP AND EDITORSHIP

2021- present	Member of the scientific advisory board of International Society of Viruses of Microbes (ISVM)
2021- 2023	Chair of the scientific advisory board of the ISVM
2020- present	Spokesperson for the Special Group 'Viruses of Microbes' of the VAAM (German Microbiology Society)
2020- present	Guest editor of the special issue 'Viruses of Microbes' of the journal 'Viruses', MDPI.
2020/2022	Review panel member , doctoral programme in Microbiology and Biotechnology, Helsinki University, Finland.
2019- present	Vice-chair and chair of the Gordon Research Conference 'Archaea' 2023 and 2025.
2019- 2022	Associate editor of the journal BMC Molecular and Cell Biology
2019- present	Associate editor of the journal Frontiers Biology of Archaea
2017- 2018	Member of the scientific advisory board of the Viruses of Microbes 2018 meeting.

2016-2017 **Guest editor** of the special issue 'Viruses of Microbes' of the journal

'Viruses', MDPI.

2015- 2020 **Board member** of the ISVM

University

INSTITUTIONAL RESPONSIBILITIES

2022-present	Board member of the GBB (Groningen Biomolecular Sciences and			
	Biotechnology Institute)			
2021-present	Member of 4 hiring committees of assistant to full professors at GBB.			
2019	Member of hiring committee for full professor in cell biology at Freiburg			

REVIEWING ACTIVITIES

Besides reviewing for several journals in my field (i.e. Mol Mic, PNAS, J Virol) I also regularly review grant applications for organizations from different countries (i.e. from DFG, NIH, FWF).

COURSES

- 2022 **UTQ (University Teaching Qualification)** of the Dutch Universities.
- 2020 Online teaching, Higher Education Training Program (HDZ), Baden Württemberg.
- 2019 **Successful leadership** in science, Freiburg University
- 2017 Supervision and leadership course for young group leaders, Freiburg University
- 2015 **EMBO lab management** course for post-docs, Heidelberg.
- 2015 **Light Microscopy course** from the Life Imaging Center of Freiburg University,
- 2014 **Scientific communication** with the general public, Free University of Brussels.
- 2013 **Scientific writing** for a general public, Wageningen University.
- 2013 'Competence assessment and career orientation' course, Wageningen University.
- 2012 Safe handling of radioactive material (level 5B), Wageningen University.
- 2010 Hands-on course 'Genetics of Archaea', Max Planck Institute, Marburg.
- 2010 **EMBO course on Electron Microscopy** & Stereology in Cell Biology, University Oslo.

TEACHING EXPERIENCE

- 2022 **Lecturer** in the Master course 'Advanced Genetic Engineering' at University of Groningen (RUG).
- 2021 **Lecturer** in the Master course 'Biotechnology' for the educational track at Freiburg University.

- 2021 Lecturer in the Bachelor course Profilmodul Microbiology at Freiburg University.
- 2020 **Lecturer** in the Bachelor course Profilmodul Microbiology at Freiburg University.
- **Supervisor** for students in the Orientierungsmodul Modul Chemie & Microbiology at Freiburg University.
- 2019 Supervision of **Practical course** in Grundmodul Microbiology at Freiburg University
- 2019 **Lecturer** in the Bachelor course Profilmodul Microbiology at Freiburg University.
- 2018 **Supervisor** for students in the Orientierungsmodul Modul Chemie & Microbiology at Freiburg University.
- 2018 Supervision of **Practical course** in Grundmodul Microbiology at Freiburg University
- 2018 Lecturer in the Bachelor course Profilmodul Microbiology at Freiburg University.
- **Supervisor** for students in the Orientierungsmodul Modul Biochemie & Mikrobiology at Freiburg University.
- 2017 **Teaching assistant** in the Vertiefungssmodul Microbiology at Freiburg University.
- 2016 **Supervisor** for students in the Orientierungsmodul Modul Chemie & Microbiology at Freiburg University.
- 2016 **Teaching assistant** in the Vertiefungssmodul Microbiology at Freiburg University.
- 2015 **Lecturer** in the master course "prokaryotes and biotechnology" at Leuven University.
- 2015 **Teaching assistant** in the Vertiefungsmodul microbiology at Freiburg University.
- **Supervisor** for students in the Orientierungsmodul Chemie & Microbiology at Freiburg University.
- 2014 **Lecturer** in the master course "prokaryotes and biotechnology" at Leuven University.
- 2011 **Teaching assistant** for the master course "Advanced practical course Microbiology", Wageningen UR.
- 2008 **Member** of the **programme committee** of the module "Molecules in life" of Junior College Utrecht in collaboration with Utrecht University.
- 2008 **Teaching assistant** for the Bachelor course "Biodiversity", Utrecht University.

SUPERVISION OF STUDENTS

	Start date	Student name	Institution	Country	note
	2022	A.Schontag	University of Groningen	The Netherlands	First promotor
_	2022	B. Kuiper	University of Groningen	The Netherlands	First promotor
PhD	2021	Z. Aguirre-Sourrouile	University of Groningen	The Netherlands	First promotor
	2019	S. Schwarzer	Freiburg University	Germany	First promotor
	2019	C. Tittes	Freiburg University	Germany	First promotor
	2016	Z. Li	Freiburg University	Germany	Co-promotor
MSc	2023	J.de Jong	University of Groningen	The Netherlands	
IVISC	2022	B.Armonaite	University of Groningen	The Netherlands	
	2022	S.Buscher	University of Groningen	The Netherlands	
	2021	V Grelat	Freiburg University	Germany	
	2018	D. Gopan	Freiburg University	Germany	
	2017	A. Alsbach	Freiburg University	Germany	
	2016	F. Braun	Freiburg University	Germany	
	2015	P. Nussbaum	Freiburg University	Germany	
	2015	N. van der Kolk	Freiburg University	Germany	
	2014	M. Boon	Leuven University	Belgium	
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2020	N. Bubeck	Freiburg University	Germany
2019	M. Geiger	Freiburg University	Germany
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