

CURRICULUM VITAE

Dr. Tessa E. F. Quax

www.quaxlab.org

<https://orcid.org/0000-0001-5516-5871>



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, viral host range, virus evolution.

CURRENT POSITION

2025-present **Professor**, hoogleraar, Biology of Archaea and Viruses, Groningen Biomolecular Sciences and Biotechnology Institute, University of Groningen, NL.

PREVIOUS POSITION(S)

2021-2025 **Associate Professor**, adjunct-hoogleraar, Biology of Archaea and Viruses, Groningen Biomolecular Sciences and Biotechnology Institute, University of Groningen, NL.

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 15th, 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 honorable* (Top 5% of PhD students).
- 2007- 2009 **Prestige Research Master** Biomolecular sciences, of the Graduate School Life Sciences of Utrecht University, the Netherlands. (*cum laude*. 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. (*cum laude*, 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 universités 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)

ACQUIRED RESEARCH GRANTS

2025 **Hector Fellow Interdisciplinary Grant** from the Hector Fellow Academy (€240.000)

2023 **Vidi grant** from the Dutch Science Organization (NWO), €800.000

2023 **Coordinator of Human Frontiers Science Program** Young Investigator grant (\$ 1.500.000 total, \$375.000 individual)

2023 **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)

2021 **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)

- 2013 **EMBO post-doctoral fellowship** awarded by the European Molecular Biology Organization (EMBO) (€74.000)
- 2013 **Rubicon post-doctoral fellowship** of the Dutch Science Organisation (NWO) (€130.000)
- 2013 **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

1. Schwarzer S, Atlason ÚÁ, **Quax T.E.F.***. (2026) S-layer architecture and glycosylation and their role in shaping virus-host specificity in prokaryotes. **Front Microbiol** 22:17:1882749
2. Setiawan R, Nijland JG, Schwarzer S, Hackl T, Nurcahyanto DA, Chasanah E, **Quax T.E.F.*** (2026) Genome-based taxonomy and provirus identification in *Halococcus* from hypersaline environments. **Curr Res Microb Sci** 25:11:100637
3. Aguirre-Sourrouille Z, Hackl T, Oksanen HM, **Quax T.E.F.*** (2026) Genomic insights into antiviral defense systems in haloarchaea and their impact on virus susceptibility. **Virology** 621:110929
4. Zhang D.X., Isupov M.N., Davies R.M., Schwarzer S, McLaren M, Stuart W.S., Gold V.A.M., Oksanen H.M., **Quax T.E.F.**, Daum B. (2025) Cryo-EM resolves the structure of the archaeal dsDNA virus HFTV1 from head to tail. **Science Advances**, 11(40):eadx1178.
5. Schwarzer S, Bäcker LE, Nijland JG, Hayani Aji I, de Jong A, Moraru C, Steglich C, **Quax T.E.F.*** (2025). The infection cycle of the haloarchaeal virus HFTV1 is tightly regulated and strongly inhibits motility of its host. **MSystems**. 10(10):e0070425
6. **Quax, T.E.F.***, (2025). Hunting Archaeal Viruses. **Nature Reviews Microbiology**. 23(11):684
7. Tittes C., Nijland J., Schöntag A.C.M., Hackl T, Di Cianni N, Marchfelder A, **Quax T.E.F.*** (2024) Development of a genetic system for *Haloferax gibbonsii* LR2-5, model host for haloarchaeal viruses. **Applied Environmental Microbiol** 90(4):e0012924.
8. Kuiper B.P., Schöntag A.M.C., Oksanen H.M., Daum B., **Quax T.E.F.*** (2024) Archaeal virus entry and egress. **Microlife**. 3;5:uqad048
9. Sensevdi E.R., Sourrouille Z.A., **Quax T.E.F.*** (2024) Host range and cell recognition of archaeal viruses. **Current Opinion in Microbiology** 16;77:102423
10. 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.
11. 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
12. 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

13. Altegoer F, **Quax T.E.F.**, Weiland P, Nußbaum P, Giammarinaro P.I., Patro M, Li Z, Oesterhelt D, Grninger M, Albers SV, Bange G. (2022) Structural insights into the mechanism of archaeal rotational switching. **Nat Commun.** 13(1):2857.
14. **Quax T.E.F.***, de Paepe M., Holmfeldt K. (2021) Viruses of Microbes 2020 : the latest conquests on Viruses of Microbes. **Viruses**, 13(5):802
15. Tittes C, Schwarzer S, Pfeiffer F, Dyll-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. **Frontiers in Microbiology**, 16:12:625599.
16. 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
17. Schwarzer S, Rodriguez-Franco M, Oksanen H.M., **Quax T.E.F.*** (2021) Growth phase dependent cell shape of Haloarcula. **Microorganisms**. 9(2):231
18. Tittes C, Schwarzer S, **Quax T.E.F.*** (2021) Viral hijack of filamentous surface structures in Archaea and Bacteria. **Viruses**. 13(2):164
19. 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
20. 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
21. 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
22. Li Z., Rodriguez-Franco M, Albers S.-V.*, **Quax T.E.F.*** (2020). The switch complex ArlCDE connects the chemotaxis system and the archaeum. **Molecular Microbiology**. 114(3):468-479.
23. 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 Archaeallins Stabilizes the Structure of the Halorubrum Archaeallum. **MicrobiologyOpen**. Apr 21:e1047

24. 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
25. Li Z, Kinoshita 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
26. 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
27. **Quax T.E.F.***, Albers S.-V., Pfeifer F. (2018) Taxis in archaea. **Emerging Topics in Life Sciences**. Nov 14, 2018
28. 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 archaeallins in Haloarcula marismortui. **Microbiology Open**. 8(5):e00718
29. **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. **Proceedings of the National Academy of Sciences USA**. 115(6):E1259-E1268
30. Chaudhury P.#, **Quax T.E.F. #**, Albers S.-A. (2017) Versatile cell surface structures of archaea. **Molecular Microbiology**. 107 (3):298-311.
31. **Quax T.E.F.*** & Daum B. (2017) Structure and assembly mechanism of Virus-Associated Pyramids. **Biophysical Reviews**. 4 Dec. 2017
32. Debarbieux L., Fisher M., **Quax T.E.F.***. (2017) Viruses of Microbes. **Viruses**. 2017 Sep 20;9(9)
33. Claassens N.J., Siliakus M.F., Spaans S.K., Creutzburg S., Nijse 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

34. 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. **Viruses**, Jul 18:9(7).
35. 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
36. Quemin E. & Quax T.E.F. *, (2015) Archaeal viruses at the cell envelope: entry and egress. **Frontiers in Microbiology**, 6:552.
37. 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
38. 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
39. 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
40. **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.
41. **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
42. 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
43. 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.
44. **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

45. **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
46. Bize A., Karlsson E.A., Ekefjård 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

2026

- **Invited speaker** at the Prokaryotic Cell Biology conference, Lisbon, Portugal

2025

- **Invited speaker** at the Thermophiles meeting, Münster, Germany.
- **Organizer** of the GRC on Archaea, Les Diablerets, Switzerland.
- **Co-organizer** of ARCTECH-archaea for biotechnology, consortium meetings at Essen, Germany.

2024

- **Invited speaker** at the 'Career in science' session of the SPP 2330 on 'prokaryotic viruses' meeting, Rösrath, Germany.
- **Invited speaker** at the 'Extremophiles' conference, Loutraki, Greece.
- **Invited speaker** at the 'Archaea' session at the annual conference of the VAAM, Würzburg, Germany.
- **Chair** at the 'Molecular biology of Archaea' conference in Paris, France

2023

- **Invited speaker** at the KNVM (Koninklijke Nederlandse Vereniging voor Microbiologie) Fall meeting.
- **Chair and organizer** of the viruses of microbes mini-symposium at the annual conference of the VAAM.
- **Speaker and chair** of the symposium of Microbial Viruses session at the FEMS meeting, Hamburg.
- **Invited speaker** at the KNVM 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 presentation** 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 Mikrobiologie) 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 St Andrews, 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 3rd 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 3, 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 Delgada, Portugal.
 - **Selected poster presentation** on the Microbiology Department days of the Institut Pasteur, Paris, France.

HOSTING OF VISITING RESEARCHERS (at the RUG)

- 2025 Sara Shokranian, PhD student, Microbify GmbH, Germany, 1 month visit to learn haloarchaeal DNA extraction.
- 2025 Alejandra Recalde, post-doc, MPI Marburg, Germany, 1 month visit to learn archaeal virology
- 2024 Hiroyuki Sakai, post-doc, RIKEN, Japan, 1 month visit, to learn DPANN virus isolation
- 2022 Brendan Schroyen, PhD student, Vrije Universiteit Brussel, Belgium, 1 month visit, to learn genetics of halophiles

- 2022 Sylvia Lemke, PhD student, Germany, 2 week visit, to learn archaeal virus techniques
- 2023 Isabel Yuren Serrano Bohoyo, BSc student, University of Extremadura, Spain 2 month visit, to perform a research project on archaeal viral infection
- 2022 Rabia Sensevdi, MSc student, Freiburg University, Germany, 2 month visit, to perform a research project on archaeal viral infection
- 2021 Joshua Petters, BSc student, Freiburg University, Germany, 9 month visit, to perform a research project on archaeal viral infection

INTERNATIONAL RESEARCH VISITS

- 2015 One week stay at **Leuven University (Belgium)** in the group of Prof. Lavigne.
Goal: conduct protein-interaction experiments.
- 2014 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.
- 2014 One week visit to **Nottingham University (United Kingdom)** in the group of Dr. Allers.
Goal: learn genetics of Haloarchaea.
- 2013 One week stay at **Leuven University (Belgium)** in the group of Prof. Lavigne.
Goal: conduct protein-interaction experiments.
- 2012 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.
- 2012 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
- 2010 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

PHD THESIS SUPERVISED

Name	Start date	End date	Type of supervision		Degree awarded at
Olaf Muskee	1-1-2026	31-12-2029	Promotor	current	RUG
Yogy Satria	1-11-2025	31-10-2029	Promotor	current	RUG
Hanna Martin	1-2-2025	31-12-2028	Promotor	current	RUG
Mariana Galvan Salim	1-11-2024	31-10-2028	Promotor	current	RUG
Joshua Petters	1-11-2024	31-10-2028	Promotor	Current	RUG
Ruby Satiawan	1-10-2024	30-9-2028	Promotor	Current	RUG
Úlfur Atlason	1-8-2023	31-7-2027	Promotor	Current	RUG
Anna Schöntag	1-11-2022	31-10-2026	Promotor	Current	RUG
Rabia Sensevdi	1-8-2022	31-7-2026	Promotor	Current	RUG
Bastiaan Kuiper	1-3-2022	28-2-2026	Promotor	Completed	RUG, defense 23-6-2026
Zaloa Aguirre Sourrouille	1-9-2021	31-8-2025	Promotor	Completed	RUG, defense 9-12-2025

Colin Tittes	1-11-2019	1-03-2024	Promotor	Completed	RUG, defense 5-11-2024
Sabine Schwarzer	15-6-2019	30-11-2023	Promotor	Completed	RUG, defense 9-7-2024
Zhengqun Li	2016	2020	Co-Promotor	Completed	University of Freiburg, defense 3-5-2020

POST-DOCTORAL RESEARCHERS SUPERVISED

Name	Start date	End date	location
Leon Bäcker	1-2-2025	31-12-2026	RUG
Colin Tittes	1-11-2023	31-10-2025	RUG
Sabine Schwarzer	1-2-2023	30-12-2026	RUG

TEACHING EXPERIENCE

2025-present Lecturer in the 1st year Bachelor course ‘ Microbiology’, RUG.

2024-present **Supervisor** in the First Year Symposium, post-presentation by students, RUG.

2024 **Guest lecturer** in the Masters Course in Immunology at Delft University (coordinator Stan Brouns).

2024-present **Supervisor** of a practical project in the MSc course on Advanced Light Microscopy, RUG.

2023-present **Lecturer** in the 1st year Bachelor course ‘ Basic Cell and Molecular Biology’, RUG.

2022-present **Coordinator** of the Master course ‘ Advanced Genetic Engineering’ at RUG.

2021-present **Supervisor** of several Master Essays and Colloquia, RUG.

2021 **Lecturer** in the Master course ‘ Biotechnology’ for the educational track at Freiburg University.

2018-2021 **Lecturer** in the Bachelor course Profilmodul Microbiology at Freiburg University.

2018-2019 Supervision of **Practical course** in Grundmodul Microbiology at Freiburg University

2015-2017 **Teaching assistant** in the Vertiefungsmodul microbiology at Freiburg University.

2015-2019 **Supervisor** for students in the Orientierungsmodul Chemie & Microbiology at Freiburg University.

2014-2015 **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
MSc	2026	T. Kramer	University of Groningen	The Netherlands	MSc thesis
	2026	N. Bashoglu	University of Groningen	The Netherlands	MSc thesis
	2026	I. Zamfirache	University of Groningen	The Netherlands	MSc thesis
	2026	A. Garcia	University of Groningen	The Netherlands	MSc thesis
	2025	M.Sietsma	University of Groningen	The Netherlands	MSc thesis
	2025	I.Martens	University of Groningen	The Netherlands	MSc thesis
	2025	H. Overkamp	University of Groningen	The Netherlands	MSc thesis
	2025	D.Alexia	University of Groningen	The Netherlands	MSc thesis
	2024	T. Westerhuis	University of Groningen	The Netherlands	colloquium
	2023	M.Dikken	University of Groningen	The Netherlands	MSc thesis
	2023	N.Doesburg	University of Groningen	The Netherlands	MSc thesis
	2023	J.de Jong	University of Groningen	The Netherlands	MSc thesis
	2023	M. van Schalkwijk	University of Groningen	The Netherlands	colloquium
	2022	B.Armonaite	University of Groningen	The Netherlands	MSc thesis
	2022	S.Buscher	University of Groningen	The Netherlands	MSc thesis
	2021	V Grelat	Freiburg University	Germany	MSc thesis
	2018	D. Gopan	Freiburg University	Germany	MSc thesis
	2017	A. Alsbach	Freiburg University	Germany	MSc thesis
	2016	F. Braun	Freiburg University	Germany	MSc thesis
	2015	P. Nussbaum	Freiburg University	Germany	MSc thesis
	2015	N. van der Kolk	Freiburg University	Germany	MSc thesis
	2014	M. Boon	Leuven University	Belgium	MSc thesis
	2013	E. Rensen	Institut Pasteur	France	MSc thesis
	2012	J. Koehorst	Wageningen University	The Netherlands	MSc thesis
	2011	J. Chaligne	Insitut Pasteur	France	MSc thesis
BSc	2025	E. Veenstra	University of Groningen	The Netherlands	BSc thesis
	2025	A. Bulai	University of Groningen	The Netherlands	BSc thesis
	2024	L. Mutschler	University of Groningen	The Netherlands	Erasmus
	2024	M. de Kooter	University of Groningen	The Netherlands	BSc thesis
	2024	M. di Giusti	University of Groningen	The Netherlands	BSc thesis
	2023	I. Yuren Serrano Bohoyo	University of Groningen	The Netherlands	Erasmus
	2023	O.van Laar	University of Groningen	The Netherlands	BSc thesis
	2023	L.Mijering	University of Groningen	The Netherlands	BSc thesis
	2022	J.Petters	University of Groningen	The Netherlands	Erasmus
	2021	J. Petters	Freiburg University	Germany	BSc thesis
	2020	N. Bubeck	Freiburg University	Germany	BSc thesis
	2019	M. Geiger	Freiburg University	Germany	BSc thesis
	2017	S. Bertolotti	Freiburg University	Germany	BSc thesis
	2016	S. Franz	Freiburg University	Germany	BSc thesis
	2016	X. Wang	Freiburg University	Germany	BSc thesis
	2014	M. Polman	Leuven University	Belgium	BSc thesis

BOARD MEMBERSHIP AND EDITORSHIP

2024-present	Board member of the KNVM (Netherlands Microbiology Society) Virology division
2022-present	Board member of the GBB (Groningen Biomolecular Sciences and Biotechnology Institute)
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- 2023	Spokesperson for the Special Group ‘Viruses of Microbes’ of the VAAM (German Microbiology Society)
2020- 2023	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- 2025	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

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, HFSP, NIH, FWF) and support in evaluations of scientific institutes.
- I have been member of 7 Committees for hiring new professors at Freiburg University and Groningen University

OUTREACH

2026	Lecture at the Forum in Groningen for the Koninklijk Natuurkundig Genootschap.
2024	Lecture in course 'Evolutie is overal' for high school teachers (https://www.walrecht.nl/nl/nieuws/cursus-evolutie-is-overal)
2023	Contribution to Podcast on the life of Antoni van Leeuwenhoek: https://app.springcast.fm/podcast/antoni-van-leeuwenhoek
2022	Interview for Science linX: https://www.rug.nl/news/2022/03/the-single-celled-microworld-of-tessa-quax-it-is-pioneering-work?lang=en

PROFESSIONALIZATION AND DIDACTIC SCHOOLING ATTENDED

2024	Active bystander training , University of Groningen
2022	Inclusive recruitment training. University of Groningen
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.