

Jan-Willem Veening

Date of birth: 26 December 1978
Nationality: Dutch
Marital status: Married, two children born in 2013 and 2016
Address: Department of Fundamental Microbiology
Faculty of Biology and Medicine
University of Lausanne
Biophore Building, room 2455
CH-1015 Lausanne
Switzerland
Telephone: +41 (0)21 6925625
E-mail: Jan-Willem.Veening@unil.ch
Labpage: <http://www.veeninglab.com/>
Google Scholar: <http://scholar.google.nl/citations?user=nD53II0AAAAJ&hl=en>
ORCID: <http://orcid.org/0000-0002-3162-6634>
Twitter: @JWVeening



Research Keywords: Antibiotic resistance, host-microbe interactions, phenotypic variation, bacterial cell biology, systems biology, synthetic biology, *Streptococcus pneumoniae*

Current positions

October 2016 – **Full Professor**
Department of Fundamental Microbiology, Faculty of Biology and Medicine,
University of Lausanne, Lausanne, Switzerland (full-time)

Previous positions

2014 – 2016 **Associate Professor (with *ius promovendi*)**
Molecular Genetics Department, Groningen Biomolecular Sciences and
Biotechnology Institute (GBB), Centre for Synthetic Biology, University of
Groningen, Groningen, the Netherlands (currently affiliated, 0%)

2009 – 2014 **Assistant Professor (Tenure Track)**
Molecular Genetics Department, Groningen Biomolecular Sciences and
Biotechnology Institute (GBB), Centre for Synthetic Biology, University of
Groningen, Groningen, the Netherlands

2006 – 2009 **Post-doctoral Research Fellow**
in the laboratory of Prof. Jeff Errington FRS at the Centre for Bacterial Cell Biology,
Newcastle University, Newcastle upon Tyne, United Kingdom

Education

2002 – 2007 **PhD in Mathematics and Natural Sciences (*Cum laude, highest distinction*)**
University of Groningen, the Netherlands
- *Dissertation title*: "Phenotypic variation in *Bacillus subtilis*: Bistability in the sporulation pathway"
- *Advisors*: Prof. O.P. Kuipers and Prof. L.W. Hamoen

1997 - 2002 **Combined BSc/MSc in Biology (*Cum laude, highest distinction*)**
University of Groningen, the Netherlands
- *Subjects*: chemistry, biochemistry, statistics, mathematical modelling,
molecular biology of plants, population- medical- molecular- and microbial
genetics

Honours and Awards

2016 – 2017	Founding member of the Young Academy Groningen (YAG)
2015 – 2020	Elected member of 'The Young Academy' from the Royal Netherlands Academy of Arts and Sciences (De Jonge Akademie KNAW)
2013 – 2017	EMBO (European Molecular Biology Organisation) Young Investigator
2007	Awarded "Cum laude" (highest honour/distinction, top 5%) for the PhD in Mathematics and Natural Sciences, University of Groningen
2002	Awarded "Cum laude" (highest honour/distinction, top 5%) for the MSc in Biology, University of Groningen

Teaching experience

2018 – present	Génétique des bactéries (2 nd year BSc level, 14 hours), lectures (in French)
2018 – present	Bacteria-Hosts (3 rd year BSc level, 12 hours), lectures, tutorials (in English)
2018 – present	PhD student tutorial 'Synthetic Biology', 3 x 2h journal club
2014 – 2016	Teacher Advanced genetic engineering (MSc level, interdisciplinary, 5 ECTS), lectures and practicals
2014 – 2016	Teacher Synthetic Biology & Systems Chemistry (MSc level, interdisciplinary, 5 ECTS), lectures and assignments
2013 – 2016	Teacher Advanced Light Microscopy (MSc level, interdisciplinary, 5 ECTS), lectures and practicals
2010 – 2013	Higher Education Teaching Qualification (BKO) diploma obtained
2011 – 2016	Teacher 1 st years bachelors course 'Biomolecular Research' (Biology and Life Sciences & Technology, 5 ECTS), practicals
2010 – 2016	Coordinator and teacher 1 st years bachelors course 'Molecular Genetics and Genomics' (Biology and Life Sciences & Technology, 5 ECTS), lectures and assignments
2008 – 2016	Co-supervisor iGEM teams University of Groningen/Newcastle (BSc and MSc course, interdisciplinary, 10-20 ECTS)
2002 – present	Supervisor of >40 bachelor and master students for their 'lab-rotation', in Groningen, Newcastle and Lausanne
2002 – 2005	Teaching assistant , third year graduate course genetics
1999 – 2002	Teaching assistant , first year undergraduate course genetics

Supervision of technicians, PhD students and Post-Docs

Apr. 2019 – present	Supervisor of Post-doc Dr. Liselot Dewachter (BEL)
Mar. 2019 – present	Supervisor of PhD student Julien Dénéreaz (CH)
Jan. 2019 – present	Supervisor of PhD student Vincent de Bakker (NL)
May 2018 – present	Supervisor of Lab manager Monica Rengifo (COL)
April 2018 – present	Supervisor of Post-doc Dr. Putri Utari (IND)
Jan. 2018 – present	Co-supervisor (with A. Typas) of PhD student Afonso Bravo (POR)
Oct. 2017 – present	Supervisor of Post-doc Dr. Xue Liu (CHN)
Oct. 2017 – present	Supervisor of Post-doc Dr. Anne-Stéphanie Rueff (SUI)
Sept. 2017 – present	Supervisor of PhD student Paddy Gibson (New Zealand)
Feb. 2017 – present	Supervisor of Post-doc Dr. Jun Kurushima (JPN)
Mar. 2016 – Feb. 2019	Supervisor of Post-doc Dr. Stefano Sanselicio (Italy)
Sep. 2015 – present	Supervisor of PhD student Dimitra Synefiaridou (Greece)
Sep. 2015 – Dec. 2016	Co-supervisor (with Prof. Zhang) of PhD student Xue Liu (CHN)
May 2015 – present	Supervisor of Post-doc Dr. Lance Keller (USA)
May 2014 – present	Supervisor of Post-doc Dr. Arnau Domenech (Spain)
Jan. 2014 – present	Supervisor of PhD student Clement Gallay (France)
Dec. 2013 – present	Supervisor of PhD student Renske van Raaphorst (NL)
Nov. 2013 – present	Supervisor of PhD student Rieza Aprianto (Indonesia)
June 2012 – May 2016	Co-supervisor of Post-doc Dr. Mikkel Jørgensen (Denmark)
Jan. 2012 – May 2016	Supervisor of Post-doc Dr. Morten Kjos (Norway)
Nov. 2011 – Oct. 2012	Supervisor of Post-doc Sulman Shafeeq (Pakistan)
Sep. 2011 – Dec. 2017	Co-supervisor (with Prof. O.P. Kuipers) of PhD student Mirjam Boonstra (NL)

Mar. 2011 – Dec. 2018 **Supervisor** of PhD student/post-doc Jelle Slager (NL)
 Sept. 2010 – May 2012 **Supervisor** of technician ing. Harma Karsens (NL)
 May 2010 – May 2011 **Supervisor** of Post-doc Dr. Pamela Gamba (Italy)
 April 2010 – Sep. 2013 **Supervisor** of Post-doc Dr. Laetitia Attaiech (France)
 Dec. 2009 – Sep. 2017 **Supervisor** of PhD student/Post-doc Robin Sorg (Germany)
 Sept. 2009 – Oct. 2015 **Supervisor** of PhD student/Post-doc Katrin Beilharz (Germany)
 July 2007 – Nov. 2011 **Co-supervisor** (with Prof. O.P. Kuipers) of PhD student Imke de Jong (NL)

Personal grants and Fellowships

2018 **ERC Consolidator Grant**, €2M: The role of cell-to-cell variability in pneumococcal virulence and antibiotic resistance (771534-PneumoCaTChER). Highly competitive European grant with a 13% overall success rate in the round of 2017.

2017 **SNF** (Swiss National Science Foundation) Project grant (4 years) CHF998K; Division site and division plane selection in the human pathogen *Streptococcus pneumoniae* (31003A_172861). Awarded bonus of excellence.

2016 **EMBO** small grant, €10K for consumables.

2013 **EMBO Young Investigator** 2014 - 2017, €45K plus additional benefits such as access to EMBL facilities and free courses for lab members.

2013 **ERC Starting Grant**, €1.5M: Noise in gene expression as a determinant of virulence of the human pathogen *Streptococcus pneumoniae* (337399-PneumoCell). Highly competitive European grant with a 9% overall success rate in the round of 2013.

2013 **VIDI** Research Grant (5 years) from the Netherlands Organisation for Scientific Research, Earth and Life Sciences (NWO-ALW), €800K: Getting in shape: Coordinating cell-cycle events with cell wall synthesis and division in *Streptococcus pneumoniae* (864.12.001, ranked #1).

2010 **VENI** Research Grant (3 years) from NWO-ALW, €250K; Getting in shape: The role of the conserved StkP/PhpP signalling couple of *Streptococcus pneumoniae* in coordinating cell wall synthesis with cell division (863.10.005).

2010 **Horizon Breakthrough Project** (1.5 years) Netherlands Genomics Initiative (NGI), The Netherlands Organisation for Health Research and Development (ZonMW), €100K; Stochastic gene expression in the human pathogen *Streptococcus pneumoniae*: Regulation of translational noise.

2010 **Marie Curie Re-integration grant** (European Commission) €45K over 3 years for equipment and lab running costs.

2006 **Intra-European Marie-Curie Fellowship** (European Commission); 2 years (€162K).

2006 **Ramsay Memorial Fellowship** from the Royal Netherlands Academy of Arts and Sciences (KNAW) (1 year, €30K); declined 2nd year funding.

Co-investigator

2018 6th Transnational call of the Joint Programming Initiative on Antimicrobial Resistance (JPIAMR), **successful co-applicant** (together with Kjos, Typas and Merten), 'DISRUPT' (€1.4M); 280KCHF over 4 years for my laboratory (1 PhD student).

2017 Defense Advanced Research Projects Agency (**DARPA**) US Army Cooperative Agreement Award W911NF-17-2-0132, DARPA-BAA-16-33 Biological technologies, together with Lance Keller (\$260K).

2017 **SNF R'EQUIP** grant for a Structured Illumination Microscope, Coordinator (CHF355K)

2017 **Novartis** Foundation for medical-biological research grant, together with Stefano Sanselicio (CHF60K).

2015 2nd Transnational call of the Joint Programming Initiative on Antimicrobial Resistance (JPIAMR), **successful co-applicant** (together with Typas, Barras, Normark-Henriques, Uhlin and Kloft), 'Combinatorials' (€1.4M); 1 post-doc for 3 years for each consortium member.

2012 **Successful co-applicant** (together with Prof. O.P. Kuipers) for a NWO-ALW medium-sized equipment grant for a new microscope system (€400K).

2009 **Coordinator** of European SysMO2 project: 'Noisy Strep: The role of transcriptional fidelity and processivity on the noise of transcription, and its consequences for

- phenotypic bistability in *Streptococcus pneumoniae*'. Partners: Prof. Nikolay Zenkin and Prof. Johannes Berg. 1 post-doc for each partner for 3 years (€791K).
- 2008 Contributed to the successful application of a BBSRC equipment grant (£300K) awarded to Prof. J. Errington.
- 2007 Contributed to the successful application of a SYSMO work-package awarded to Prof. O.P. Kuipers resulting in the appointment of a PhD student (Imke de Jong) (~€200K).

Contribution to successful grant applications of team-members

- 2019 MARIE SKŁODOWSKA-CURIE fellowship (2 years post-doc) awarded to Dr. Liselot Dewachter.
- 2017 PhD fellowship Faculty of Biology and Medicine, UNIL to Paddy Gibson (3 years)
- 2016 Naito Foundation fellowship awarded to Dr. Jun Kurushima (1 year, 4.5M JPY)
- 2016 Novartis foundation for medical-biological research fellowship awarded to Dr. Stefano Sanselicio (1 year, 60K CHF; declined)
- 2015 MARIE SKŁODOWSKA-CURIE fellowship (2 years post-doc) awarded to Dr. Arnau Domenech.
- 2013 GBB PhD position in synthetic biology awarded to MSc Renske van Raaphorst: Unravelling the importance of capsule heterogeneity for virulence of *Streptococcus pneumoniae*: a synthetic biology approach.
- 2012 Contributed to the successful application of a Villum and Lundbeck fellowship (2+2-years post-doc) awarded to Dr. Mikkel Jørgensen at the University of Southern Denmark (co-supervised with Prof. Poul Valentin-Hansen and Prof. Jakob Møller-Jensen).
- 2011 FEBS fellowship (3 years post-doc) awarded to Dr. Morten Kjos.
- 2009 EMBO long-term fellowship (2 years post-doc) awarded to Dr. Laetitia Attiaech.
- 2009 GGSS Ubbo Emmius PhD scholarship (4 years) to Katrin Beilharz.

Commissions of Trust

- 2019 – present Ad hoc reviewer for the Israel Science Foundation grant proposals.
- 2019 Member of the scientific committee for Europeumo 2019. Greifswald, Germany.
- 2018 – 2019 President of a hiring committee for 2 new Professors at the CIG, UNIL.
- 2018 – present Ad hoc referee Swiss National Science Foundation (SNSF) 'ambizione' program
- 2017 – present Editorial advisory board [Life Science Alliance](#); journal from EMBO press, Rockefeller University press and Cold Spring Harbor press.
- 2017 – present Ad hoc editor for the journal *PLoS Biology*.
- 2017 – present Commission Foundation [Herbette](#)
- 2017 Member of the scientific committee for Europeumo 2017. Stockholm, Sweden.
- 2016 – present Member 'Commission des Prix de la Faculté de biologie et de médecine', UNIL
- 2016 – present Ad hoc editor for the journal *eLife*.
- 2016 – present Commission member section 'Prokaryotic Biology' of the Swiss Society for Microbiology
- 2016 Ad hoc reviewer for the Polish National Science Centre grant proposals.
- 2015 – 2016 Ad hoc committee member VIDI career grants for NWO (Netherlands Organisation for Scientific Research) section ZonMW (Health Research and Development).
- 2015 – present Ad hoc reviewer for ERC consolidator grants.
- 2015 – present On several hiring committees for new staff (support and scientific staff).
- 2015 – 2017 The Health Council of the Netherlands, member of the committee '[Disinfectants](#)'.
- 2015 – present Evaluator EMBO short-term fellowships.
- 2014 – present Evaluator EMBO long-term fellowships.
- 2014 Ad hoc referee BBSRC open grant proposal (United Kingdom).
- 2014 Ad hoc referee Medical Research Council (UK) senior non-clinical fellowship.
- 2012 – present Referee for the open grant program of the ANR (French National Research Agency).
- 2012 – present Referee for open grant program of the DFG (German Research Foundation).
- 2012 – 2016 Board member Royal Dutch Society for Microbiology (KNVM) section general Molecular Microbiology.
- 2010 – 2016 Committee work for NWO section ALW (Earth and Life Sciences) open competition proposals.

2006 – present Ad hoc reviewer for: *ACS Nano*, *BioEssays*, *BMC Microbiology*, *Cell Host & Microbe*, *Cell Reports*, *Cell Systems*, *Current Opinion in Microbiology*, *eLife*, *EMBO reports*, *Environmental Microbiology*, *FEBS journal*, *FEMS Microbiology Reviews*, *Genes*, *Genome Research*, *Journal of Bacteriology*, *mBio*, *Microbiology*, *Molecular Ecology*, *Molecular Microbiology*, *Molecular Systems Biology*, *Nature*, *Nature Biotechnology*, *Nature Microbiology*, *Nature Protocols*, *Nature Reviews Microbiology*, *Nucleic Acids Research*, *PLOS genetics*, *PLOS one*, *PLOS pathogens*, *PNAS*, *Proteomics*, *Science Advances*, *Toxins*.

PhD examination, reading committee or committee president for:

April 2019	Vanessa Munoz, MPI Berlin, TAC member
March 2019	Rita Di Martino, UNIL, CH
February 2019	Jelle Slager, University of Groningen, NL (promotor)
December 2018	Anna Anchimiuk, UNIL, CH
July 2018	Rieza Aprianto, University of Groningen, NL (promotor)
June 2018	Theresa Hölscher, Jena, GER
June 2018	Alejandro Gómez Mejia, Greifswald, GER
March 2018	Katrin Schneider, EPFL, CH
March 2018	Aurelie Scherler, UNIL, CH
November 2018	Caitlin Griffiths, Newcastle UK
November 2017	Raphaël Groux, UNIL, CH
October 2017	Maria Costa Neves Ferreira da Silva, UNIL, CH.
July 2016	Wei Yuan, University of Groningen, NL.
June 2016	Jurgen Piet, University of Amsterdam, NL.
June 2016	Ewa Cendrowicz, University of Groningen, NL.
February 2016	Erwin Berendsen, University of Groningen, NL.
January 2016	Olexandr Salo, University of Groningen, NL.
December 2015	Edoardo Zaccaria, University of Wageningen, NL.
December 2015	Ruud Detert Oude Weme, University of Groningen, NL.
November 2015	Irfan Manzoor, University of Groningen, NL.
May 2015	Andrea Mura, University of Cagliari, Italy.
February 2015	Adam Kawalek, University of Groningen, NL.
January 2015	Katrin Beilharz (promotor), University of Groningen, NL.
January 2015	Nadia Rostami, Newcastle University, United Kingdom.
November 2014	Hylkje Geertsema, University of Groningen, NL.
September 2013	Marnix Medema, University of Groningen, NL.
June 2013	Sarah Boulineau, Technical University Delft, NL.
March 2013	Anders Steno Olsen, University of Southern Denmark, Odense, Denmark.
February 2013	Vahid Farshchi Andisi, University Medical Centre Groningen, NL.
October 2012	Sulman Shafeeq, University of Groningen, NL.
November 2011	Imke de Jong (co-promotor), University of Groningen, NL.
July 2011	Manfred Saller, University of Groningen, NL.
December 2010	Emilia Varhimo, University of Helsinki, Finland.

Conference Organization (with others)

August 2022	GRC Streptococcal biology, chair with Michael Federle, vice chairs: TBA
August 2020	GRC Streptococcal biology, vice chair with Michael Federle, chairs: Kelly Doran and Shiranee Sriskandan
13/14 Nov. 2019	EMBO Young Investigator Microbiology meeting, Heidelberg, Germany.
3/4 Dec. 2018	EMBO Young Investigator Microbiology meeting, Heidelberg, Germany.
22/23 Nov. 2017	DMF Impromptu workshop and symposium 'Synthetic Biology', Lausanne.
17/18 Nov. 2016	DMF Impromptu workshop and symposium 'Origins of Life', Lausanne.
2/3 May 2016	Antibiotics Now! Joint KNAW and DJA international conference, Groningen.
13 Nov. 2015	Royal Dutch Society for Microbiology (KNVM) general molecular microbiology fall meeting, Utrecht.
15/16 Oct. 2015	EMBO Young Investigator Microbiology meeting, Heidelberg, Germany.
6/7 Nov. 2014	EMBO Young Investigator Microbiology meeting, Heidelberg, Germany.
6 Dec. 2013	KNVM general molecular microbiology fall meeting, Wageningen.

Invited Conference Presentations

November 2019	Bacterial morphogenesis, survival and virulence: Regulation in 4D, EMBO conference, Cape Town, South Africa
October 2019	Tri-nation (Japan, China, South Korea) pneumococcal conference, Beijing, China
July 2019	New Approaches in Microbiology, EMBO conference, Heidelberg, Germany
August 2018	Gordon Research Conference (GRC): Streptococcal biology, Newry, US
June 2018	GRC: Bacterial cell surfaces, West Dover, US
April 2018	ECCMID Madrid, Spain
April 2018	ISPPD Melbourne, Australia
March 2018	Spatiotemporal organization of bacterial cells, Marburg, Germany.
September 2017	5 th Molecular Microbiology meeting, keynote speaker, Birmingham, UK
September 2017	EMBO at Basel Life 2017, plenary speaker. Basel, Switzerland.
June 2017	International Conference on Bacilli and other Gram-positive bacteria. Keynote speaker. Berlin, GER.
June 2017	International EuroPneumo meeting, Stockholm, Sweden.
November 2016	Bacterial morphogenesis, survival and virulence: Regulation in 4D, EMBO conference, Thiruvananthapuram (Kerala), India
May 2016	Communication among complex microbial populations, <i>College de France</i> , Paris, France.
October 2015	New Approaches in Microbiology, EMBO conference, Heidelberg, Germany.
September 2015	International SYNMArburg Symposium, Marburg, Germany.
July 2015	GRC: Staphylococcal Diseases, Il Ciocco, Italy.
July 2015	GRC: Microbial Adhesion and Signal Transduction, Newport, USA.
June 2015	Featured lecture FEMS congress of European Microbiologists, Maastricht, NL.
March 2014	Keynote speaker Food Innovation Summit, Oosterbeek, NL.
January 2014	Keynote speaker Top Institute Food and Nutrition (TIFN) WE days, Assen, NL.
May 2013	Spotlight lecture, EuroPneumo, Madrid, Spain.
November 2011	KNVM (Royal Dutch Society for Microbiology) fall meeting, Nijmegen, NL.
April 2011	KNVM scientific spring meeting, Papendal, NL.
September 2010	Stochastic effects in microbial infection, Edinburgh, United Kingdom.
July 2009	FEMS congress of European Microbiologists, Gothenburg, Sweden.

Invited Seminars

November 2019	Seminar in Norwich, United Kingdom
October 2019	Seminar in Paris (Pasteur), France
September 2019	Seminar in Bern, Switzerland
August 2019	Seminar in Oslo, Norway
June 2019	Seminar in Tübingen, Germany
May 2019	Lecture at ITQB Lisbon, Portugal
November 2018	Florey Institute symposium, Sheffield, UK
May 2018	Seminar in Toulouse, France
May 2018	Seminar at Imperial College, London, UK
March 2018	Seminar at the University Hospital Zurich
May 2017	Lecture Institute for Infectious Diseases, University of Bern
May 2017	Innovaud Connect Keynote lecture: Bacteria and Parasites, Epalinges
April 2017	13 th edition of the UNIL PhD D-Day, keynote lecture, Lausanne
October 2016	Lecture in 'Microbial Cell Structures & Drug Targets', Biozentrum Basel
October 2016	Eureka!2016 lecture, Würzburg, Germany
March 2016	Lecture in the series 'Top Lectures in Biology' of the University of Leiden, NL
December 2015	Lecture microbiology symposium Wageningen University, NL
November 2015	Lecture University of Amsterdam and Free University of Amsterdam, NL
October 2015	Lecture CNRS Marseille, France
September 2015	Lecture Institut Pasteur de Lille, France
June 2015	Frontiers in Biomedical Science Lecture, Tsinghua University, Beijing, China

June 2015	Lecture Institute for Microbiology Chinese Academy of Sciences, Beijing, China
June 2015	Lecture University of Science and Technology of China, Hefei, China
March 2015	Lecture Medical Microbiology, University Medical Center Utrecht, NL
March 2015	Lecture Laboratory of Microbiology, Wageningen University, NL
February 2015	Lecture Trinity College, Dublin, Ireland
January 2015	Lecture Forschungszentrum Jülich, Germany
November 2014	Lecture University of Geneva, Switzerland
October 2014	Lecture University of Greifswald, Germany
September 2014	Faculty Spotlight Lecture, Groningen, NL
March 2014	Lecture University of Lyon, France
March 2014	Lecture (masterclass) ITQB Lisbon, Portugal
December 2013	Lecture (masterclass) University of Göttingen, Germany
April 2013	Infection and Immunity lecture, Biozentrum Basel, Switzerland
November 2012	Microbiology colloquia lecture, LMU Biocenter Munich, Germany
January 2011	SFB Epigenetics and Evolution Symposium, University of Cologne, Germany
November 2010	Department of Fundamental Microbiology, Lausanne, Switzerland

Selected talks from abstracts

August 2017	Swiss Society for Microbiology, Basel, CH
June 2014	EMBO Conference "Microbiology after the genomics revolution: Genomes 2014", Paris, France
June 2013	Gram-positive meeting, Montecatini Terme, Italy
June 2011	European Meeting on the Molecular Biology of the Pneumococcus (EuroPneumo), Amsterdam, NL
November 2010	Bacterial Cell Biology, Zing conference, Puerto Morelos, Mexico, talk
June 2009	EuroPneumo, Bern, Switzerland
June 2007	International Conference on Functional Genomics of Gram-Positive Microorganisms, Terrenia, Italy
July 2006	Microbial Stress Response Gordon conference, Mount Holyoke, USA
June 2005	International Conference on Functional Genomics of Gram-Positive Microorganisms, San Diego, USA
April 2005	European BACELL meeting, Paris, France
June 2004	European Spores Conference, Smolenice, Slovakia

Interviews and public debate/outreach

- 2018: [Inaugural lecture](#) 'De la bactérie inoffensive au redoutable pathogène: Approches de biologie synthétique pour décrypter l'infection à pneumocoques'
- 2016: Founding member of the Young Academy Groningen ([video](#) in English)
- 2016: College de France, lecture ([video](#) in English)
- 2016: Column on biocides in biweekly Dutch scientific journal [C2W](#)
- 2015: Interview about our 2015 [Nature Communications](#) paper (in Dutch and English)
- 2015: Dutch [TV item on Synthetic Biology](#) with student Renske van Raaphorst (in Dutch)
- 2015: Extensive interview about my work on [national Dutch radio 1](#) (in Dutch)
- 2015: NOS (Dutch national news) [interview on the microbiome](#) (in Dutch)
- 2015: Inauguration [lecture The Young Academy](#) of the Royal Netherlands Academy of Arts and Sciences (nice!) (in Dutch)
- 2015: Kennislink [interview on synthetic microbiology](#) (in Dutch)
- 2015: Elected to [The Young Academy](#) (in Dutch and English)
- 2014: Unifocus [video interview](#) about my lab (nice!) (in Dutch and English)
- 2014: Interviews ([audio](#) and [online](#)) about the 2014 *Cell* paper on [antibiotics and competence](#) (in English)
- 2014: EMBO [Encounters interview](#) (in English)
- 2013: City of Talent [video interview](#) (in Dutch)
- 2013: University [newspaper interview](#) (in Dutch)
- 2013: New Scientist [interview on genetic engineering](#) (in Dutch)
- 2011: Rathenau institute [debate on biosecurity](#) and Synthetic Biology (in Dutch)

- 2010: Radio 1 (Noorderlicht) on [synthetic biology](#) and Craig Venter (in Dutch)

Active collaborations

University of Lausanne	Prof. S. Gruber; chromosome segregation, biochemistry
University of California at San Diego	Prof. V. Nizet; antibiotic resistance in the mouse
EMBL-Heidelberg	Dr. Nassos Typas; high throughput compound screening
Boston University	Prof. Tim van Opijnen; Tn-Seq
VU Medical Centre Amsterdam	Profs. Wilbert Bitter/ Diederik van de Beek; zebrafish embryos
Karolinska Institute Stockholm	Prof. Birgitta Henriques-Normark; mouse colonization models

Recent selected papers

1. Jelle Slager, Rieza Aprianto and [Veening J.W.](#) Deep genome annotation of the opportunistic human pathogen *Streptococcus pneumoniae* D39. Back-to-back with 'High resolution analysis of the pneumococcal transcriptome under a wide range of infection-relevant conditions'. Both published in Nucleic Acids Research.
 - Charting the pneumococcal transcriptome in high detail. Browse the genome in [PneumoBrowse](#) and the transcriptome in [PneumoExpress](#)
2. van Raaphorst R., Kjos M. and [Veening J.W.](#) Chromosome segregation drives division site selection in *Streptococcus pneumoniae*. **PNAS**. 2017. 14(29): E5959-E5968. Corresponding author. Highlighted in *Nature Reviews Microbiology*.
 - We show that Z-ring formation occurs coincidentally with the initiation of DNA replication.
3. Liu X., Gallay C., Kjos M., Domenech A., Slager J., van Kessel S.P., Knoop K., Sorg R.A., Zhang J.R., [Veening J.W.](#) High-throughput CRISPRi phenotyping identifies new essential genes in *Streptococcus pneumoniae*. **Mol. Syst. Biol.** 2017. 13(5):931. Corresponding author.
 - Development of an important resource for the pneumococcal community.
4. Aprianto R., Slager J., Holsappel S., and [Veening J.W.](#) Time-resolved Dual RNA-Seq Reveals Extensive Rewiring of Lung Epithelial and Pneumococcal Transcriptomes during Early Infection. **Genome Biology**. 2016. 17(1):198. Corresponding author.
 - New insights on gene regulation of both host and bacteria during infection
5. Sorg R.A. and [Veening J.W.](#) Micro-scale insights into pneumococcal antibiotic mutant selection windows. **Nature Communications**. 2015 Oct 30; 6:8773. doi: 10.1038/ncomms9773. Corresponding author.
 - Direct observations of phenotypic variation in antibiotic susceptibility.
6. Slager J., Kjos M., Attaiach L. and [Veening J.W.](#) Antibiotic-Induced Replication Stress Triggers Bacterial Competence by Increasing Gene Dosage near the Origin, **Cell** (2014), 157 (2): 395–406. Corresponding author. Featured article, with podcast. Highlighted in *Nature Reviews Genetics* and *Nature Reviews Microbiology*.
 - The mechanism by which certain antibiotics induce competence is unravelled.

Publications (78)

1. Mercy C., Lavergne J.P., Slager J., Ducret A., Garcia P.S., Noirot-Gros M.F., Dubarry N., Nourikyan J., [Veening J.W.](#) and Grangeasse C. RocS drives chromosome segregation and nucleoid occlusion in *Streptococcus pneumoniae*. 2019. *BioRxiv*. <https://doi.org/10.1101/359943>. In press with *Nature Microbiology*.
2. Keller L., Rueff A.S., Kurushima J. and [Veening J.W.](#) Three new integration vectors and fluorescent proteins for use in the opportunistic human pathogen *Streptococcus pneumoniae*. *Genes*. 2019. In press.
3. Jensen G., Merrikh H., Monack D. and [Veening J.W.](#) What career advice do you give your grad students or postdocs? *Trends in Microbiology*. 2019. 10.1016/j.tim.2019.03.009
4. Brockhurst M.A., Harrison F., [Veening J.W.](#), Harrison E., Blackwell G., Iqbal Z. and Maclean C. Assessing evolutionary risks of resistance for new antimicrobial therapies. *Nat Ecol Evol*. 2019. doi: 10.1038/s41559-019-0854-x.
5. Slager J., Aprianto R. and [Veening J.W.](#) Refining the pneumococcal competence regulon by RNA-sequencing. *Journal of Bacteriology*. 2019 doi: 10.1128/JB.00780-18.

6. Domenech A., Slager J., and Veening J.W. Antibiotic-induced cell chaining triggers pneumococcal competence by reshaping quorum sensing to autocrine-like signalling. *Cell Reports*. 2018 25(9):2390-2400.e3. doi: 10.1016/j.celrep.2018.11.007
7. Aggarwal S.D., Eutsey R., West-Roberts J., Domenech A., Xu W., Abdullah I.T., Mitchell A.P., Veening J.W., Yesilkaya H., Hiller N.L. Function of BriC peptide in the pneumococcal competence and virulence portfolio. *PLoS Pathog*. 2018 Oct. 10.1371/journal.ppat.1007328
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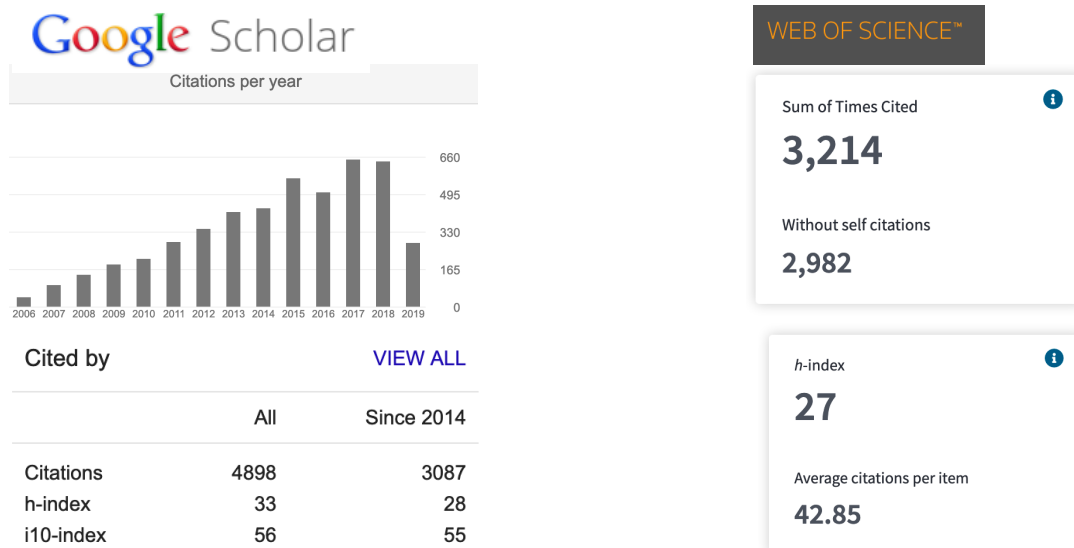
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Patents (1)

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