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## CURRICULUM VITAE

### Melanie Blokesch

#### PROFESSIONAL EXPERIENCE AND EDUCATION

- 02-07/2025** Visiting Professor, Department of Microbiology, Harvard Medical School, Boston, USA
- 07/2022-26** Director, Global Health Institute, School of Life Sciences, Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland
- 06/2021-** Full Professor, Global Health Institute, School of Life Sciences, Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland
- 2016-2021** Associate Professor (tenured), Global Health Institute, School of Life Sciences, Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland
- 2009-2016** Tenure-track Assistant Professor, Global Health Institute, School of Life Sciences, Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland
- 2005-2009** Postdoctoral Fellow, Division of Infectious Diseases and Geographic Medicine & Department of Microbiology & Immunology, Stanford University, USA  
Mentor: Prof. Dr. Gary Schoolnik
- 2000-2004** PhD in Biology (doctoral degree/Dr. rer. nat.); *summa cum laude*; with highest distinction  
Department Biology I, Microbiology, Ludwig-Maximilians-University, Munich, Germany  
Thesis advisor: Prof. Dr. Dr. h.c. August Böck
- 1995-2000** Diploma in Biology, Microbiology (major), Genetics, Medical Microbiology, Immunology (minors), Ludwig-Maximilians-University, Munich, Germany; Diploma thesis at the Institute of Genetics and Microbiology

#### AWARDS AND DISTINCTIONS

- 2025** Elected member of the **Academia Europaea**
- 2022** Elected fellow of the American Academy of Microbiology (**AAM**)
- 2021** Elected member of the German National Academy of Sciences, **Leopoldina**
- 2019** Elected member of the European Molecular Biology Organization (**EMBO**)
- 2018** Elected member of the European Academy of Microbiology (**EAM**)
- 2017** Howard Hughes Medical Institute (**HHMI**) International Research Scholarship
- 2017** Awardee ‘**25 Frauen, deren Erfindungen unser Leben verändern**’ by Edition F, ZEIT online, Handelsblatt and Gründerszene, Berlin, Germany

- 2015** **Research Award**, Association for General and Applied Microbiology (VAAM), Germany  
The Research Award is an annual prize awarded to young group leaders for outstanding research in the field of microbiology. This was the first time that a researcher working outside of Germany has been granted the award.
- 2015** The *Emmanuelle Caron lecture* at Imperial College London, UK (May 2015)
- 2015** EPFL teaching award “**Polysphère**” by the student association AGEPoly for best teacher in the School of Life Sciences
- 2015** **Best oral presentation award**, BacNet 2015 in San Feliu de Guixols, Spain
- 2013** Member of **AcademiaNet**, expert database of leading women scientists (nominated by EMBO, ERC, 2 x SNSF).
- 2012** **Teaching award**, teaching section School of Life Sciences, EPFL (best teaching evaluation for three consecutive years, 2010-2012).
- 2007** Nominated by the German Research Foundation (DFG) for participation in the 57<sup>th</sup> Meeting of Nobel Laureates in Lindau, Germany.
- 2005** **Leopoldina Prize for Junior Scientists**, German National Academy of Sciences Leopoldina  
The German National Academy of Sciences Leopoldina is one of the oldest academies of sciences worldwide. The prize for junior scientists is awarded to researchers under the age of 30 “who have produced exceptional scientific work in one of the fields represented by the Leopoldina”.
- 2005** **Thesis Award**, Association for General and Applied Microbiology (VAAM), Germany

## GRANTS AND FELLOWSHIPS

- 2026-2030** **Swiss National Science Foundation individual grant** (10.007.853; single PI).
- 2025** **Swiss National Science Foundation scientific exchange grant** (232371; single PI)
- 2025-2029** **Swiss National Science Foundation individual grant** (10.000.385; single PI).
- 2022-2025** **Swiss National Science Foundation individual grant** (310030\_204335; single PI)
- 2019-2024** **Swiss National Science Foundation individual grant** (310030\_185022; single PI); top rated grant application.
- 2019** **Research grant**, Novartis Foundation for Medical and Biological Research
- 2018-2024** **ERC Consolidator Grant** awarded by the **European Research Council** (“CholeraIndex”); success rate: 13.8% (awarded in 2016).
- 2017-2022** **Howard Hughes Medical Institute (HHMI) International Research Scholarship** (single PI); 41 scientists selected from nearly 1’500 applicants.
- 2017-2021** **Research grant by the Swiss National Science Foundation** in the framework of the National Research Program *Antimicrobial Resistance* (NRP 72; 407240\_167061; single PI)
- 2016-2018** **Swiss National Science Foundation individual grant** (31003A\_162551; single PI)
- 2015-2016** **Swiss National Science Foundation equipment grant** for a High Frequency Mass Spectrometer for Advanced Proteomics Analysis (316030\_164075; co-applicant)
- 2015-2016** **Swiss National Science Foundation equipment grant** for a Multicolour 3D STED Microscope extension (316030\_164106; co-applicant)
- 2014-2015** **Swiss National Science Foundation equipment grant** for a Serial Block Face Scanning Electron Microscope (316030\_157883; co-applicant)
- 2013-2018** **ERC Starting Grant** awarded by the **European Research Council** (“VIR4ENV”); success rate: 11.3% (awarded in 2012).
- 2013-2015** **Swiss National Science Foundation individual grant** (31003A\_143356; single PI)
- 2013** **Invited Speaker Meeting Grant**, *Fourth Genome Maintenance Meeting* (GMM4), Federation of European Microbiological Societies (FEMS)
- 2012-2013** **Research grant**, Novartis Foundation for Medical and Biological Research
- 2012** **Seed money**, EPFL Cooperation & Development Center
- 2010-2012** **Swiss National Science Foundation individual grant** (31003A\_127029; single PI)
- 2007-2008** **Dean's Fellowship Award**, Stanford University School of Medicine, Stanford, CA, USA
- 2005-2007** **Research Fellowship**, German Research Foundation (DFG)
- 2004** **Student Travel Grant**, ASM 104<sup>th</sup> General Meeting in New Orleans, USA

## EDITORIAL TASKS, BOARDS, AND REVIEWING

2022	Boards of Editors <i>mBio</i>
2021-	Section Editor <i>microLife</i>
2019-2022	Reviewing Editor <i>eLife</i>
2017-2022	Associate Editor <i>PLoS Genetics</i>
2017-2021	Academic Editor <i>PLoS Biology</i>
2017-2021	Editor <i>Molecular Microbiology</i>
2016-2022	Editorial Board <i>Current Opinion in Microbiology</i>
2015-2016	Senior Editor <i>mSphere</i>
2014-2015	Editor <i>Scientific Reports</i>
2013-2022	Editor <i>Microbes &amp; Infection</i>
2014-2020	Member of the Editorial Board of <i>PeerJ</i>
2013	Associate Editor <i>BMC Microbiology</i> (resigned by the end of 2013)
2011-2015	Member of the Editorial Board of <i>Applied and Environmental Microbiology</i>

- Invited ad hoc reviewer for these journals: *Appl. Environ. Microbiol.*, *Arch. Microbiol.*, *BMC Microbiol.*, *Cell Host & Microbe*, *Cell Rep.*, *Cell. Microbiol.*, *Chemical Science*, *Curr. Opin. Microbiol.*, *eLife*, *EMBO J.*, *Environ. Microbiol.*, *FEBS J.*, *FEBS Lett.*, *FEMS Microbiol. Lett.*, *Infect. Immun.*, *ISME J.*, *J. Bacteriol.*, *J. Clin. Microbiol.*, *mBio*, *Mol. Microbiol.*, *Microbiology*, *Nature*, *Nat. Biotechnol.*, *Nat. Commun.*, *Nat. Microbiol.*, *Nat. Rev. Microbiol.*, *PLoS Genet.*, *PLoS Negl. Trop. Dis.*, *PLoS One*, *PLoS Pathog.*, *Proc. Natl. Acad. Sci. USA*, *Res. Microbiol.*, *Science*, *Sensors*, *Trends Ecol. Evol.*, *Vaccine*, *Water Res.*
- Invited ad hoc reviewer for the following funding agencies and foundations: *European Research Council* (ERC), *Swiss National Science Foundation* (SNSF, Switzerland), *French Research Agency* (ANR, France), *Fondation pour la Recherche Médicale* (France), the *Austrian Science Fund* (FWF), the *Wellcome Trust* (UK), *Research Council of the Université catholique de Louvain* (Belgium), the *Gebert Rűf Foundation* (Switzerland), the Swiss bilateral Science and Technology Cooperation by the State Secretariat for Education, Research, and Innovation (Switzerland), *National Geographic* (USA), and the *Alexander von Humboldt Foundation*, Germany.

## COMMISSIONS OF TRUST

2025	Special Fellow Nomination Committee, European Academy of Microbiology (EAM)
2024	Search committee <i>Assistant Professorship of Virus-Host Interactions</i> , ETH Zurich, Switzerland
2023	Scientific Advisory Board <i>Institute Pasteur Lille</i> , France
2023	Search committee <i>Assistant Professorship in Microbial Cell Biology</i> , University of Lausanne, Switzerland
2021-2022	Scientific Advisory Board <i>Institute for Integrative Biology of the Cell</i> (I2BC) spanning three research campuses in the Paris region, France
2021-2024	Scientific Advisory Board <i>Institute of Pharmacology and Structural Biology</i> (IPBS) in Toulouse, France
Since 2021	Member, EMBO Installation Grants committee
2021	Evaluation committee <i>Max Planck Research School</i> (IMPRS - From Molecules to Organisms) in Tübingen, Germany
2021	Search committee <i>Professorship in Microbiology</i> , Faculty of Medicine, University of Geneva, Switzerland
2020	Search committee <i>Junior group leader</i> for the Institute of Pharmacology and/or Structural Biology (IPBS) and the Centre for Integrative Biology (CBI) in Toulouse, France
2020	Member <i>COVID-19 ETH domain advisory task force</i> (March 2020)
2019-2022	Member <i>Specialised Committee Interdisciplinary</i> (FAID) & <i>Sinergia Evaluation Committee</i> , Swiss National Science Foundation, Switzerland
2019-2025	Elected member of the <i>National Research Council</i> of the Swiss National Science Foundation (4 years; renewed to 6 years)

- 2019-2022** Scientific Advisory Board *Research Centre for Infectious Diseases* (ZINF) in Würzburg, Germany
- 2019** Faculty hiring committee member for Professorship in *Basic Research in Biology of Infectious Diseases of Poverty*, Swiss Tropical and Public Health Institute, Basel, Switzerland
- Since 2019** Scientific committee member of the Bavarian Research Network *New strategies against multi-resistant pathogens using digital networking* (bayresq.net) by the *Free State of Bavaria* (Germany)
- 2019** Evaluation committee tenure promotion for lecturer in Microbiology at the Autonomous University of Barcelona, Catalonia, Serra Húnter Programme, Catalonia, Spain
- Since 2018** Scientific Advisory Board *Laboratoire de chimie bactérienne* (LCB) in Marseille, France
- 2018-2024** Scientific Advisory Board *Centre for Integrative Biology* (CBI) of Toulouse, France
- 2018** Jury committee member *l'Institut universitaire de France* (IUF), Ministère de l'enseignement supérieur, de la recherche et de l'innovation (MESRI), France.
- 2018-2024** Hiring Committee Member EPFL Life Sciences Early Independence Research Scholar (ELISIR) program, EPFL, Lausanne, Switzerland (yearly hire of new scholars).
- 2017-2019** Member of the Research Commission and Vice-Chair Evaluation Panel III, EPFL, Switzerland
- 2016-2017** Grant panel member *French Research Agency* (ANR), France (two consecutive years)
- 2016** Faculty hiring committee *Serra Húnter Programme*, Catalonia, Spain
- 2016** Faculty hiring committee *Department of Fundamental Microbiology at the University of Lausanne*, Switzerland

## EXTERNAL AND INTERNAL COMMITTEES (SELECTION)

(Thesis committees excluded)

- 2026-** Co-chair, *EPFL Together* steering committee, EPFL, Switzerland
- 2023-2025** Elected member, Academic Strategic Committee (ASC), EPFL, Switzerland
- 2023** International *Vibrio* meeting Organizing Committee
- Since 2023** Member, Space Committee, School of Life Sciences, EPFL, Switzerland
- Since 2022** Member, Award Committee, School of Life Sciences, EPFL, Switzerland
- Since 2020** Member, Steering committee Bioelectron Microscopy Facility (BioEM), EPFL, Switzerland
- Since 2020** Member, Gender committee, School of Life Sciences, EPFL, Switzerland
- 2020** Member, COVID-19 academic committee, EPFL, Switzerland (March until ~July)
- Since 2019** Board member Faculty Direction, School of Life Sciences, EPFL, Lausanne, Switzerland
- Since 2019** Co-organizer biannual DMF/UNIL-EPFL microbiology seminar series
- 2018-2019** EPFL School of Life Sciences SV 2.0 committee, EPFL, Lausanne, Switzerland
- 2017-2018** Vice Director, Doctoral Program in Molecular Life Sciences (EDMS), EPFL, Switzerland
- 2017-2018** Founding member Open Science Strategic Committee, EPFL Lausanne, Switzerland
- 2017** Poster judgment committee at the New Approaches and Concepts in Microbiology, EMBO/EMBL Symposium in Heidelberg, Germany
- Since 2015** Committee member, Doctoral Program in Molecular Life Sciences (EDMS), EPFL Lausanne
- 2016** Member Audit Task Force Committee, School of Life Science, EPFL Lausanne, Switzerland
- 2014-2016** Member, Faculty Council, School of Life Sciences, EPFL, Lausanne
- 2009-2014** Committee member *International Summer Research Program* (SRP), EPFL
- 2010-2011** Program Director (shared) *International Summer Research Program* (SRP), EPFL
- 2010-2012** Representing the School of Life Sciences in the ACAD committee (working group including faculty and administrative members of EPFL with the aim to improve administrative tasks).
- 2009-2016** Scientific board and local steering committee *Doctoral Program in Microbial Sciences*; overarching program for the western part of Switzerland (CUSO-sponsored)

## CONFERENCE AND WORKSHOP ORGANIZATION

- 2023** Chair, *Gordon Research Conference on Microbial Adhesion and Signal Transduction* in Newport, USA (co-elected with Raphael Valdivia, USA); planned for 2021; Covid-19-related delay.

- 2021-22 Scientific committee member for the 18<sup>th</sup> *International Symposium on Microbial Ecology* (ISME18) in Lausanne, Switzerland
- 2022 Member Life Sciences Symposium (20 years anniversary) committee, EPFL, Switzerland
- 2019 Vice Chair, *Gordon Research Conference on Microbial Adhesion and Signal Transduction* in Newport, USA (co-elected with Raphael Valdivia, USA)
- 2018-2019 Scientific committee member for the *Swiss Microbial Ecology Meeting 2019* (SME 2019), Switzerland
- 2017-2018 Program committee member for the *ASM Microbe 2018* meeting by the American Society for Microbiology (ASM) in Atlanta, USA (invitation for 2018/2019 program committee for *ASM Microbe 2019* meeting in San Francisco declined)
- 2017-2018 Scientific committee member for the *Annual Meeting 2018* by the Swiss Society for Microbiology (SSM) in Lausanne, Switzerland
- 2012 Co-organizer (with Prof. P. Linder, CMU, Geneva) of the *Swiss Molecular Microbiology Meeting*
- 2012 Scientific organizer of the first Global Health Institute retreat in Villars.

## PRESENTATIONS AT CONFERENCES (SELECTION)

### 2027 (scheduled)

- *Symposium on the Immune System of Bacteria* at Churchill College, University of Cambridge, UK (**invited speaker**; July 2027)

### 2026 (scheduled)

- *New concepts in prokaryotic virus-host interactions* symposium in Berlin, Germany (**invited speaker**; October 2026)
- *CIG Symposium 2026*, University of Lausanne, Switzerland (**invited speaker**; June 2026)

### 2025

- *10th Anniversary Student Symposium* at Institute of Pharmacology and Structural Biology in Toulouse, France (**invited keynote speaker**; November 2025)
- EMBO/FEBS Advanced course *The New Microbiology* in Spetses, Greece (**invited speaker**; September 2025)
- Wenner-Gren Foundation Symposium *Phage-bacteria interactions: the molecular battle for control of the central dogma* in Stockholm, Sweden (**invited speaker**; August 2023)
- *Gordon Research Conference on Microbial Adhesion and Signal Transduction* in Newport, USA (**invited speaker**; July 2025)
- *Biology of Acinetobacter XIV conference* in Niagara Falls, NY, USA (**invited speaker**; July 2025)
- *Infection - Roles of Pathogens, Hosts, and Microbiomes* (EMBL/EMBO conference) in Heidelberg, Germany (**invited speaker**; May 2025; virtual presentation)
- *Keystone Symposia on Human Microbiome & Host-Microbe Co-Evolution* in Banff, AB, Canada (**invited speaker**; February 2025)

### 2024

- EMBL conference *The next generation in infection biology*; virtual event (**invited keynote speaker**; November 2024)
- *Microbial Cell Biology meeting* by VAAM in Marburg Germany UK (**invited speaker**; October 2024)
- *Hooke Meeting - Ecology and Evolution of Bacterial Immune Systems* in London, UK (**invited speaker**; September 2024)
- *Bacterial Networks* (BacNet24; EMBO Symposium) in San Feliu de Guixols, Spain (**invited speaker**; September 2024)
- *Gordon Research Conference on Microbial Toxins and Pathogenicity* in Waterville Valley Resort (VT), USA (**invited keynote speaker**; July 2024)
- *12th meeting of the Dublin Academy of Pathogenomics and Infection Biology (DAPI)* in Dublin, Ireland (**invited keynote speaker**; June 2024)

- *Symposium on the Immune System of Bacteria* at the Harvard Medical School in Boston, USA (**invited speaker**; April 2024)
- *Gordon Research Conference on Sensory Transduction in Microorganisms* in Ventura CA, USA (**invited speaker**; January 2024)

## 2023

- DMF *Impromptu* symposium, University of Lausanne, Switzerland (**invited speaker**; November 2023)
- Interacademy conference on *Molecular microbiology of bacteria and bacterial infections* in Würzburg, Germany (**invited speaker**; September 2023)
- *Swiss Society for Microbiology* annual meeting in Lausanne, Switzerland (**invited keynote speaker**; August 2023)
- Wenner-Gren Foundation Symposium *Small molecule signaling across the tree of life with a focus on nucleotide signaling* in Stockholm, Sweden (**invited speaker**; August 2023)
- *Gordon Research Conference on Microbial Population Biology* in Proctor Academy, Andover, NH, USA (**invited speaker**; July 2023)
- Seeon conference by the German Society of Hygiene and Microbiology (DGHM) in Seeon, Germany (**invited keynote speaker**; June 2023)
- EMBO workshop *The Immune System of Bacteria* at the Weizmann Institute of Science in Israel (**invited speaker**; February 2023)
- 4th Bacterial Cell Biology Conference in Cancun, Mexico (**invited EMBO keynote speaker**; February 2023)

## 2022

- Symposium Centre for Molecular Bacteriology and Infection (CMBI), Imperial College, London, UK (**invited keynote speaker**; September 2022)
- International Plasmid Biology Meeting (IPBM) 2022 in Toulouse, France (**invited speaker**; September 2022)
- EMBO/FEBS Advanced course *The New Microbiology* in Spetses, Greece (**invited speaker**; September 2022)
- Biochemical Society Harden Conference on Single Molecule Bacteriology (SMOLBAC II) in Oxford, UK (**invited speaker**; July 2022; postponed from 2020 because of COVID-19 pandemic)
- *International Union of Microbiological Societies, IUMS meeting* in Rotterdam, Netherlands (**invited speaker**; July 2022; last minute switch to virtual meeting)
- *Gordon Research Conference on Bacterial Cell Surfaces* in Mount Snow, West Dover (VT), USA (**invited speaker**; June/July 2022; postponed from 2020 due to COVID-19 pandemic)
- *Microbiology Society Annual Conference* in Belfast, UK (**invited speaker**; April 2022)
- Symposium *Dynamic organization of cellular protein machineries* in Freiburg, Germany (**invited speaker**; March 2022; last minute change to virtual)
- *Cell Biology of Infection - Rigi Workshop*, Rigi Mountain Switzerland (**invited speaker**; January 2022)

## 2021

- *New Approaches and Concepts in Microbiology, EMBO/EMBL Symposium* in Heidelberg, Germany (**invited speaker**; July 2021 - changed to virtual format)

## 2020

- *Microverse I - Joint International Symposium on Microbial and Biomolecular Interactions* (**invited speaker**; September 2020; virtual)
- *Gordon Research Conference on Bacterial Cell Surfaces* in Mount Snow, West Dover (VT), USA (**invited speaker**; June/July 2020; canceled because of COVID-19 pandemic)
- *EMBL Workshop: Unlocking the Gut Microbial Functional Diversity* in Heidelberg, Germany (**invited speaker**; March 2020; canceled because of COVID-19 pandemic)
- *3rd Bacterial Cell Biology conference* in Nassau, The Bahamas (**invited speaker**; February 2020)

## 2019

- *Bacterial Morphogenesis, Survival and Virulence* in Cape Town, South Africa (**invited speaker**; November 2019)

- *EMBO Members' meeting 2019 (invited speaker as new members; October 2019)*
- *EMBO/FEBS Advanced course *The New Microbiology* in Spetses, Greece (invited speaker; September 2019)*
- *Bacterial Networks (BacNet19; EMBO Symposium) in San Feliu de Guixols, Spain (invited speaker; September 2019)*
- *Host-Microbe Symbioses Summer Course in Lisbon, Portugal (invited lecturer; July 2019)*
- *Gordon Research Conference on *Animal-Microbe Symbiosis* in Mount Snow (VT), USA (invited speaker; June 2019)*
- *FEBS Advanced Lecture Course *Current Advances on Pathogen Research* in Yerevan, Armenia (invited speaker; March 2019)*

## 2018

- *Howard Hughes Medical Institute (HHMI) Science meeting at Janelia Research Center in Ashburn, Virginia, USA (speaker as international scholar; November 2018)*
- *Fifth Genome Maintenance Meeting (GMM5) in Oslo, Norway (invited keynote speaker; October 2018)*
- *Gene regulation workshop by the Association for General and Applied Microbiology (VAAM) in Tutzing/Munich, Germany (invited speaker; September 2018)*
- *EMBO at Basel Life 2018 meeting in Basel, Switzerland (invited plenary speaker; September 2018)*
- *17<sup>th</sup> International Symposium on Microbial Ecology (ISME17) in Leipzig, Germany (invited speaker; August 2018)*
- *19th Annual UC Berkeley Microbiology Student Symposium in Berkeley, USA (invited keynote speaker; April 2018)*
- *Conference *Spatiotemporal Regulation of Bacterial Cells* in Marburg, Germany (invited speaker; March 2018)*

## 2017

- *Cold Spring Harbor meeting on *Microbial Pathogenesis and Host Response* in Cold Spring Harbor, USA (invited speaker; September 2017)*
- *Molecular Genetics of Bacteria and Phages Meeting at University of Wisconsin, Madison, USA (invited speaker; August 2017)*
- *Gordon Research Conference on *Microbial Adhesion and Signal Transduction* in Newport, USA (invited speaker; July 2017)*
- *FEMS 2017 – 7<sup>th</sup> Congress of European Microbiologists in Valencia, Spain (invited speaker; July 2017)*
- *New Approaches and Concepts in Microbiology, EMBO/EMBL Symposium in Heidelberg, Germany (invited speaker; June 2017)*
- *Microbiology Society Annual Meeting in Edinburgh, UK (invited speaker; April 2017)*
- *ASM conference on *Mechanisms of Interbacterial Cooperation and Competition* in Washington, DC, US (invited speaker; March 2017)*

## 2016

- *EMBO conference on *Bacterial morphogenesis, survival and virulence: Regulation in 4D* in Kerala, India (invited speaker; November 2016; health-related last-minute cancellation)*
- *10<sup>th</sup> Swiss Biosafety Meeting in Lausanne, Switzerland (invited speaker; August 2016)*
- *Gordon Research Conference on *Microbial Toxins and Pathogenicity* in Waterville Valley Resort (VT), USA (invited speaker; July 2016)*
- *Gordon Research Conference on *Bacterial Cell Surfaces* in Mount Snow, West Dover (VT), USA (invited speaker; June 2016)*
- *Microbe 2016 - American Society for Microbiology General Meeting & ICAAC in Boston, USA (invited speaker; June 2016)*
- *Symposium *Communication among complex microbial populations*, Collège de France in Paris, France (invited keynote speaker; May 2016)*
- *VIBRIO 2016 – 6<sup>th</sup> international conference on the Biology of Vibrios in Roscoff, France (invited speaker; April 2016)*
- *Colloque Charles Nicolle at the General Meeting of the French Society for Microbiology (SFM) in Paris, France (invited speaker for keynote presentation; March 2016)*

## 2015

- *Women in Science Session at New Approaches and Concepts in Microbiology*, EMBO/EMBL Symposium in Heidelberg, Germany (**invited panel member**; October 2015)
- *New Approaches and Concepts in Microbiology*, EMBO/EMBL Symposium in Heidelberg, Germany (October 2015)
- *SYNMarburg Symposium* in Marburg, Germany (**invited speaker**; September 2015)
- *Life Sciences Symposium 2015* in Lausanne, Switzerland (**invited speaker**; September 2015)
- *Top gear in science* meeting by the Norwegian Academy of Science and Letters, Oslo, Norway (**invited speaker**; June 2015)
- *Infection & Immunity Forum at the Foundation Jeantet* in Geneva, Switzerland (**invited speaker**; June 2015)
- *FEMS 2015 – 6<sup>th</sup> Congress of European Microbiologists* in Maastricht, Netherlands (**invited speaker**; June 2015)
- Annual meeting of the Swiss Society for Microbiology in Lugano, Switzerland (May 2015)
- *Bacterial Networks* (BacNet15; ESF-EMBO Symposium) in San Feliu de Guixols, Spain (May 2015)
- @ASM Conference on *Mechanisms of Interbacterial Cooperation and Competition* in Washington, DC, USA (50 participants selected; March 2015)
- Workshop *Emergence of pathogens in natural Vibrio populations: ecology, evolution and pathogenesis* in Paris, France (**invited speaker**; March 2015)
- *Annual Conference of the Association for General and Applied Microbiology (VAAM)* in Marburg, Germany (**invited speaker**; March 2015)
- *Nestlé Institute of Health Sciences–EPFL Science Day* at EPFL, Lausanne, Switzerland (**invited speaker**; February 2015)

## 2014-2009

- *Seed Money Program conference*, organized by the Cooperation & Development Center (EPFL) in Lausanne, Switzerland (**invited speaker**; October 2014)
- *3<sup>rd</sup> International Congress of the Molecular Biology Association of Turkey* in Izmir, Turkey (**invited speaker**; September 2014)
- *Microbiology after the genomics revolution: Genomes 2014* in Paris, France (June 2014)
- Annual meeting of the Swiss Society for Microbiology in Fribourg, Switzerland (June 2014)
- *VIBRIO 2014 – 5<sup>th</sup> international conference on the Biology of Vibrios* in Edinburgh, UK (**invited speaker**; April 2014)
- Annual Meeting of the *Royal Dutch Society for Microbiology* (KNVM) and the *Dutch Society for Medical Microbiology* (NVMM), Arnhem, Netherlands (**invited speaker**; April 2014)
- Annual Meeting of *Life Sciences Switzerland (LS<sup>2</sup>)* in Lausanne, Switzerland (February 2014)
- *Gordon Research Conference on Microbial Adhesion and Signal Transduction* in Newport, USA (**invited speaker**; July 2013)
- *American Society for Microbiology 113<sup>th</sup> General Meeting (ASM 2013)*, plenary session, in Denver, USA (**invited plenary speaker**; May 2013)
- *Fourth Genome Maintenance Meeting (GMM4)* in Oslo, Norway (**invited speaker**; April 2013)
- *Bacterial Networks* (BacNet13; ESF-EMBO Symposium) in Pultusk, Poland (March 2013)
- ISME – *14<sup>th</sup> International Symposium on Microbial Ecology* in Copenhagen, Denmark (August 2012)
- Joint Annual meeting of the Swiss Society for Infectious Diseases, the Swiss Society for Hospital Hygiene, the Swiss Society for Microbiology and the Swiss Society of Tropical Medicine and Parasitology in St. Gallen, Switzerland (**invited speaker**; June 2012)
- *4<sup>th</sup> international conference on the Biology of Vibrios* in Santiago de Compostela, Spain (November 2011)
- *FEMS 2011 – 4<sup>th</sup> Congress of European Microbiologists* in Geneva, Switzerland (June 2011)
- *Molecular Microbiology Meeting 2011* in Würzburg, Germany (May 2011)
- *5<sup>th</sup> ASM Conference on Biofilms* in Cancun, Mexico (**invited speaker**; November 2009)
- *3<sup>rd</sup> international conference on the Biology of Vibrios* in Rio de Janeiro, Brazil (November 2009)

## 2002-2008

- *Annual Conference of the Association for General and Applied Microbiology (VAAM)* in Frankfurt, Germany (March 2008)
- *Genomes, Medicine, and the Environment 2007* in San Diego, USA (**invited speaker**; October 2007)

- 8<sup>th</sup> International Hydrogenase Conference in Breckenridge, USA (**invited speaker**; invitation declined; August 2007)
- EMBO Conference on Molecular Microbiology in Heidelberg, Germany (August 2006)
- Annual Conference of the Association for General and Applied Microbiology (VAAM) in Göttingen, Germany (**invited speaker, thesis award**; October 2005)
- 7<sup>th</sup> International Hydrogenase Conference in Reading, UK (**invited speaker**; August 2004)
- Meeting of COST Action 841 in Mülheim, Germany (**invited speaker**; September 2003)
- Gordon Research Conference Molecular Basis of Microbial One-Carbon Metabolism in New London, CT, USA (**invited substitute for Prof. Dr. A. Böck**; July 2002)

**Invited session chair:**

- Annual Meeting of Life Sciences Switzerland (LS<sup>2</sup>) in Zurich, Switzerland (February 2020)
- Gordon Research Conference Microbial Adhesion and Signal Transduction in Newport, USA (July 2019)
- Gordon Research Conference Bacterial Cell Surfaces in Mount Snow, West Dover, USA (June 2018)
- Molecular Genetics of Bacteria and Phages Meeting in Madison, Wisconsin USA (August 2017)
- Session Evolution and genome plasticity; FEMS 2017 – 7<sup>th</sup> Congress of European Microbiologists in Valencia, Spain (July 2017; co-organizer of session)
- Session Cooperation and Competition Inside the Host; ASM conference on Mechanisms of Interbacterial Cooperation and Competition in Washington, DC, USA (March/April 2017)
- Infection & Immunity Forum at the Fondation Jeantet in Geneva, Switzerland (June 2016)
- Session Sucking It up and Squirting It out - Novel Findings in Bacterial Secretion Systems; Microbe 2016 (American Society for Microbiology General Meeting & ICAAC), in Boston, USA (June 2016; organizer of session)
- Annual Conference of the Association for General and Applied Microbiology (VAAM) in Jena, Germany (March 2016)
- Session General Motors; ASM General Meeting in New Orleans, USA (June 2015; organizer of session)

## INVITED PRESENTATIONS AT INSTITUTIONS

### 2026-2030

- Center for Structural Systems Biology, Hamburg, Germany (April 2027)

### 2021-2025

- University of Wageningen, Wageningen, Netherlands (September 2025)
- Wadsworth Center, New York State Department of Health, Albany, NY, USA (June 2025)
- University of Montreal, Montreal, Canada (May 2025)
- Microbiome Club (student & postdoc-organized monthly seminar series), MIT, Boston, USA (May 2025)
- Department of Microbiology, Harvard Medical School, Boston, USA (March 2025)
- Institute Pasteur, Paris, France (July 2023)
- Biozentrum, Basel, Switzerland (April 2023)
- Mikrobiologischen Kolloquium, Tübingen, Germany (January 2023)
- Department of Microbiology at the University of Illinois at Urbana-Champaign (*virtual visit*; April 2022)
- Institute of Ecology and Evolution, University of Bern, Bern, Switzerland (November 2021)
- McMaster University, Canada (*virtual presentation*; March 2021)
- University Zurich, Switzerland (*virtual presentation*; March 2021)
- University of Sheffield, UK (*virtual presentation*; March 2021)
- Dunn School of Pathology, University of Oxford, UK (*virtual presentation*; January 2021)
- University of Manitoba, Canada (*virtual presentation*; January 2021)

### 2016-2020

- Indiana University in Bloomington, USA (*virtual presentation*; November 2020)
- Institute of Structural and Molecular Biology, Birkbeck & University College London, UK (January 2020)

- *Department of Microbiology and Molecular Genetics*, Michigan State University, East Lansing, USA (January 2020)
- *Department of Microbiology and Immunology*, University of Michigan, Ann Arbor, USA (January 2020)
- *Department of Microbiology*, Harvard Medical School, USA (October 2019)
- *Biozentrum*, Basel, Switzerland (September 2019)
- *Department of Fundamental Microbiology*, University of Lausanne, Switzerland (September 2019)
- *Departamento de Genética, Facultad de Biología*, Universidad de Sevilla in Sevilla, Spain (May 2019)
- *Center for Integrative Genomics*, University of Lausanne, Switzerland (May 2019)
- *TOP lecture series*, University of Leiden, Netherlands (April 2019)
- *Max Planck Institute for Developmental Biology* in Tübingen, Germany (December 2018)
- *University of California San Francisco*, San Francisco, USA (June 2018)
- *Stanford University*, Palo Alto, USA (May 2018)
- *Instituto Gulbenkian de Ciência*, Oeiras, Portugal (February 2018)
- *John Innes Centre*, Norwich, UK (November 2017)
- *Institute of Microbiology*, ETH Zurich, Switzerland (November 2017)
- *Strathclyde Institute of Pharmacy and Biomedical Sciences*, University of Strathclyde, Glasgow, UK (October 2017)
- *Laboratoire de Microbiologie et Génétique Moléculaires UMR 5100*, Université Paul Sabatier, Toulouse, France (April 2017)
- *SV in extenso*, School of Life Sciences Research Day 2017, EPFL, Switzerland (March 2017)
- *Centre of Excellence in Bacteriology* of the University of Geneva, Geneva, Switzerland (January 2017)
- Presentation preceding the 2016 Annual Balzan Lecture, Lausanne, Switzerland (December 2016)
- *Institut für Microbiologie*, Ludwig-Maximilians-University, Munich, Germany (November 2016)
- *Friedrich Schiller University*, Jena, Germany (November 2016)
- *Ruhr-University* Bochum, Germany (October 2016)

#### 2011-2015

- *Institute of Cell Biology*, University of Bern, Switzerland (December 2015)
- *School of Biosciences*, University of Birmingham, UK (November 2015)
- *Institute for Molecular Infection Biology*, University of Würzburg, Germany (November 2015)
- *College of Life Sciences*, University of Dundee, UK (September 2015)
- *Hannover Medical School*, Hannover, Germany (July 2015)
- *Max Planck Institute for Marine Microbiology* in Bremen, Germany (July 2015)
- *Max Planck Institute for Terrestrial Microbiology* in Marburg, Germany (May 2015)
- *Institut de Microbiologie de la Méditerranée*, CNRS, Marseille, France (November 2014)
- *University of Montpellier (CNRS)*, Montpellier, France (July 2014)
- Lecturer, summer school *Microbes, Host and Infection* at Tübingen University, Germany (July 2014)
- Lecturer, *Cold Spring Harbor Laboratory Course on Advanced Bacterial Genetics*, Cold Spring Harbor, NY, USA (June 2014)
- *Institute for Cell and Molecular Biosciences* at Newcastle University, UK (February 2014)
- *Institute of Medical Microbiology* at the University of Zurich, Switzerland (February 2014)
- *Max Planck Institute for Terrestrial Microbiology* in Marburg, Germany (November 2013)
- Lecturer, PhD course *Infection, Inflammation, and Immunity*, University of Tromsø, Norway (June 2013)
- *CNRS unit UMR5240*, Lyon, France (May 2013)
- *Biozentrum*, Basel, Switzerland (February 2013)
- *Max von Pettenkofer-Institut*, Ludwig-Maximilians-University, Munich, Germany (February 2013)
- *Institute Pasteur*, Paris, France (April 2012)
- *Centre de Genetique Moleculaire*, Gif-sur-Yvette, France (April 2012)
- *Institut de Microbiologie de la Méditerranée*, CNRS, Marseille, France (May 2011)
- *Swiss Federal Institute of Aquatic Science and Technology*, Dübendorf, Switzerland (April 2011)

#### 2006-2010

- *Department of Fundamental Microbiology*, University of Lausanne, Switzerland (March 2010)
- *Institute of Microbiology*, ETH Zürich, Switzerland (December 2009)
- *Département de microbiologie et médecine moléculaire*, CMU, Geneva, Switzerland (November 2009)

- *Helmholtz Centre for Infection Research* in Braunschweig, Germany (May 2008)
- *School of Life Sciences, Swiss Federal Institute of Technology* Lausanne, Switzerland (May 2008)
- *Max Planck Institute for Terrestrial Microbiology* in Marburg, Germany (March 2008)
- *Scripps Institution of Oceanography*, San Diego, CA, USA (January 2008)
- *University of California, San Diego*, CA, USA (January 2008)
- *Division of Infectious Diseases & Geographic Medicine Annual Retreat*, Stanford, USA (May 2007)
- *Department of Microbiology & Immunology Annual Retreat*, Stanford, USA (April 2006)

## TEACHING AND TRAINING

### 2026

- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), Spring 2026, EPFL - *ongoing*
- *Protein localization in bacteria* (1 ECTS credit; doctoral course), EPFL – January 2025

### 2025 (sabbatical Feb-July 2025)

- *Protein localization in bacteria* (1 ECTS credit; doctoral course), EPFL – January 2025

### 2024

- *Planetary Health* (contributing teacher; 4 ECTS credits; Master level; 4h/week, 14 weeks), autumn 2024, EPFL
- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), Spring 2024, EPFL
- *Protein localization in bacteria* (1 ECTS credit; doctoral course), EPFL – January 2024

### 2023

- *Planetary Health* (contributing teacher; 4 ECTS credits; Master level; 4h/week, 14 weeks), autumn 2023, EPFL
- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), Spring 2023, EPFL

### 2022

- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), EPFL

### 2021

- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), EPFL – Spring 2021 (remote format in 2021 due to Covid-19 pandemic)
- *Protein localization in bacteria* (1 ECTS credit; doctoral course), EPFL – May 2021

### 2020

- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), EPFL – Spring 2020 (remote format after March 2020 due to Covid-19 pandemic)
- *Protein localization in bacteria* (1 ECTS credit; doctoral course), EPFL – January 2020
- Participation to *Landmark Papers in Cancer and Infection* (doctoral course), EPFL – Spring 2020

### 2019

- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), EPFL
- *Protein localization in bacteria* (1 ECTS credit; doctoral course), EPFL

### 2018

- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), EPFL – Spring 2018
- Participation to *Landmark Papers in Cancer and Infection* (doctoral course), EPFL

### 2017

- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), EPFL
- *Protein localization in bacteria* (1 ECTS credit; doctoral course), EPFL

## 2016

- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), EPFL

## 2015

- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), EPFL
- *Protein localization in bacteria* (1 ECTS credit; doctoral course), EPFL
- Participation to *Landmark Papers in Cancer and Infection* (doctoral course), EPFL

## 2014

- Workshop *Microbes and viruses in water: the good, the bad and the innocuous* (1 ECTS credit; doctoral course for the CUSO Doctoral Program in Microbial Sciences), EPFL; Co-organized by Prof. Rizlan Bernier-Latmani and Prof. Tamar Kohn (both Environmental Engineering, ENAC / EPFL)
- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), EPFL
- *Protein localization in bacteria* (1 ECTS credit; doctoral course), EPFL
- Participation to *Landmark Papers in Cancer and Infection* (doctoral course), EPFL

## 2013

- *Bio-Design for the real world* (contributing teacher; Bachelor level), EPFL
- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), EPFL
- *Protein localization in bacteria* (1 ECTS credit; doctoral course), EPFL

## 2012

- *Responses of bacteria to environmental signals* (1 ECTS credit; doctoral course; jointly taught with Prof. J. Collier & Prof. K. Lapouge), University of Lausanne (UNIL)
- *Infection Biology* (5 ECTS credits, Master level; 5h/week, 14 weeks), EPFL
- *Project in biomedical technologies* (8 ECTS credits, Master level (minor), 1 student), EPFL
- *Super-resolution microscopy of bacteria* (1 ECTS credit; doctoral course; jointly taught with Prof. S. Manley, Biophysics), EPFL
- Participation to *Landmark Papers in Cancer and Infection* (doctoral course), EPFL

## 2011

- *Infection Biology* (5 ECTS credits; Master level; 5h/week, 14 weeks), EPFL
- *Responses of bacteria to environmental signals* (1 ECTS credit; doctoral course; jointly taught with Prof. J. Collier & Prof. K. Lapouge), University of Lausanne (UNIL)
- Participation to *Landmark Papers in Cancer and Infection* (doctoral course), EPFL

## 2010

- *Biotechnology Laboratory I* (4 ECTS credits, Bachelor level; 4h/week, 14 weeks), EPFL

## 2008

- Supervision of Bachelor project, Stanford University, USA

## 2000-2003

- Teaching associate; Ludwig-Maximilians-Universität, Munich, Germany
- Supervision of Diploma Thesis projects, Ludwig-Maximilians-Universität, Munich, Germany

## EPFL internal and external supervision (2009 until now; current members underlined)

- **18 postdocs** (J. Kühn, C. Van der Henst, L. Metzger, I. Mateus, M. Jaskólska, D.W. Adams (permanent senior scientist in the lab since 2021), A. Vanhove, S. Isaac, J. Pereira, N. Flaugnatti, T. Sana, A. Proutière, M. Pons, C. Virolle, M. Broc, T. Luo, D. Li, S. Rowe)
- **11 PhD students** (G. Suckow, M. Lo Scrudato, P. Seitz, N. Matthey, N. Drebes Dörr (+ 2 years postdoc in the group), N. Vesel (+ 1 year postdoc in the group), L. Lemos Rocha, S. Otto, C. Fetz, G. Vizzarro, Ana Acedo Morato [+ three 1<sup>st</sup>-year PhD student candidates: C. Colas, M. Meyer, Z. Gong]
- **>30 undergraduate students** (Bachelor students, Master students, Summer Research students, internships including those abroad)

- **8 technical assistants** [plus 2 technical assistant trainees, 2 commercial assistant trainees]; current members: Sandrine Stutzmann (née Borgeaud; since 2011; now lab manager), Loriane Bader (2021-2026), Laurie Righi (since 2023).

## SCIENTIFIC OUTREACH

- **Plenary speaker** for the *Women in Science* lecture & luncheon event in Montreux, Switzerland. *Women in Science* is part of the initiative *Fund for Education and Research in Genetics* (FREG) housed at the University of Lausanne, to foster stronger interrelationships between members of the broader community and important research discoveries that impact humanity and the way we understand the world around us. (November 2021)
- “COVID 19 - ce qui a changé pour les chercheurs EPFL - Melanie Blokesch” interview/online movie by Collège des Humanités at EPFL (May 2020).
- Interview on COVID-19 by Sarah Perrin (for EPFL webpage/FLASH magasin; April 2020)
- RTS documentary *Femmes de science: Mélanie Blokesch* (2019)
- Work on *V. cholerae* featured within ERC’s **2018 Research Highlights** (online and in Annual Report on the ERC activities and achievements in 2018)
- Blokesch group member participated in the **EPFL Alumni event 2018**
- Information booth by Blokesch lab at the **Open Days 2016 at EPFL**.
- Science and gender equality communication on Twitter (@MBlokesch; since 2015)

## MEMBERSHIPS

- Member of the *ETH Women Professors Forum* (ETH-WPF)
- Past member of the *Association des Professeures de l’École Polytechnique Fédérale de Lausanne* (APEL)
- Past member of Deutscher Hochschulverband (2015-2017)
- Member of VibrioNet Europe (<http://www.vibrionet.de/institutes/index.html>)
- Member of diverse societies: **ASM** (USA), **SSM** (Switzerland), **VAAM** (Germany)

## PUBLICATIONS

### **Research articles & reviews (preprinted and/or submitted/under review/under revision):**

Trigo da Roza F., Carvalho A., Prieto A., Blanco P., Vergara E., Lopéz-Igual R., Redrejo-Rodríguez M., **Blokesch M.**, Escudero J.A. (202X) Large-scale recovery of integron 1 cassettes for gene discovery screens. – *submitted*; *bioRxiv* doi: 10.64898/2026.03.17.712381

Garb J.E., Adams D.W., Yardeni E.H., **Blokesch M.**, Sorek R. (202X) Synthetically designed anti-defense proteins overcome barriers to bacterial transformation and phage infection. – *bioRxiv* doi: 10.1101/2025.09.01.673470

### **Research articles (peer-reviewed):**

Righi L., Stutzmann S., Bader L., Lemopoulos A., **Blokesch M.** (2026) Competence-mediated DNA uptake diversifies *Vibrio cholerae* sedentary chromosomal integrons. *Science*, 392:194-201; doi: 10.1126/science.aed0645

Li Y., Adams D.W., Liu H.W., Shaw S.J., Uchikawa E., Jaskólska M., Stutzmann S., Righi L., Szczelkun M.D., **Blokesch M.**, Gruber S. (2025) Structure and activation mechanism of a Lamassu phage and plasmid defense system. *Nat. Struct. Mol. Biol.*, 32:2503-2516. doi: 10.1038/s41594-025-01677-4; see also *bioRxiv* doi: 10.1101/2025.03.14.643221

- Drebes Dörr N.C., Lemopoulos A., **Blokesch M.** (2025) Exploring Mobile Genetic Elements in *Vibrio cholerae*. *Genome Biol. Evol.*, 17:evaf079; see also *bioRxiv* doi: 10.1101/2024.07.25.605194
- Adams D.W.\*#, Jaskólska M., Lemopoulos A., Stutzmann S., Righi L., Bader L., **Blokesch M.\*#** (2025) West African South American pandemic *Vibrio cholerae* encodes multiple distinct phage defence systems. *Nat. Microbiol.*, 10:1352–1365. doi: 10:1352-1365. (\*equal contribution; #co-corresponding); see also *bioRxiv* <https://doi.org/10.1101/2024.11.23.624991>
- Flaugnatti N., Bader L., Croisier-Coeytaux M., **Blokesch M.** (2025) Capsular Polysaccharide Restrains Type VI Secretion in *Acinetobacter baumannii*. *eLife*, 14:e101032. (This article was accepted for publication via eLife's original publishing model; preprinted on *bioRxiv* doi: <https://doi.org/10.1101/2024.04.23.590769>).
- Vizzarro G., Lemopoulos A., Adams D.W.#, **Blokesch M.#** (2024) *Vibrio cholerae* pathogenicity island 2 encodes two distinct types of restriction systems. *J. Bacteriol.*, 206:e00145-24. (#co-corresponding) (preprinted on *bioRxiv* doi: <https://doi.org/10.1101/2024.04.04.588119>).
- ➔ Highlighted as editor's pick by *J. Bacteriol.*
- Loeff L., Adams D.W., Chanez C., Stutzmann S., Righi L., **Blokesch M.**, Jinek M. (2024) Molecular mechanism of plasmid elimination by the DdmDE defense system. *Science*, 385:188-194 (preprinted on *bioRxiv* <https://doi.org/10.1101/2024.05.10.593530>).
- Otto S.B., Servajean R., Lemopoulos A., Bitbol A-F., **Blokesch M.** (2024) Interactions between pili affect the outcome of bacterial competition driven by the type VI secretion system. *Curr. Biol.*, 34:P2403-2417. (preprinted on *bioRxiv* <https://doi.org/10.1101/2023.10.25.564063>).
- ➔ Article featured as Dispatch by Liu & Unterweger (2024) Microbiology: Murder as a solution to promiscuity? in *Curr. Biol.* 34:R528-551.
- Lemopoulos A., Miwanda B., Drebes Dörr N.C., Stutzmann S., Bompangue D., Muyembe Tamfum J.J., **Blokesch M.** (2024) Genome sequences of *Vibrio cholerae* strains isolated in the DRC between 2009-2012. *Microbiol. Resour. Announc.* 2;13:e0082723.
- Vesel N., Iseli C., Guex N., Lemopoulos A., **Blokesch M.** (2023) DNA modifications impact natural transformation of *Acinetobacter baumannii*. *Nucleic Acids Res.*, 51: 5661-5677. doi:10.1093/nar/gkad377.
- ➔ Article featured as Spotlight article by Soler-Bistué 2023 in *Trends in Microbiology* (July 2021)
- Proutière A.\*, Drebes Dörr N.C.\*, Bader L., Stutzmann S., Metzger L., Isaac S., Chiaruttini N., **Blokesch M.** (2023) Sporadic type VI secretion in 7<sup>th</sup> pandemic *Vibrio cholerae*. *Microbiology*, 169. doi: 10.1099/mic.0.001329. (\*equal contribution)
- Drebes Dörr N.C., Proutière A., Jaskólska M., Stutzmann S., Bader L., **Blokesch M.** (2022) Single nucleotide polymorphism determines constitutive versus inducible type VI secretion in *Vibrio cholerae*. *ISME J.*, 16:1868-1872. (pre-printed *bioRxiv*: <https://doi.org/10.1101/2022.01.28.478222>)
- Lemos Rocha L.F., Peters K., Biboy J., Depelteau J.S., Briegel A., Vollmer W., **Blokesch M.** (2022) The VarA-CsrA regulatory pathway influences cell shape in *Vibrio cholerae*. *PLoS Genet.*, 18:e1010143. (pre-printed on *bioRxiv*: <https://doi.org/10.1101/2021.09.09.459595>)
- Jaskólska M.\*, Adams D.W.\*#, **Blokesch M.#** (2022) Two defence systems eliminate plasmids from seventh-pandemic *Vibrio cholerae*. *Nature*, 604:323-329 (\*equal contribution; #co-corresponding)
- ➔ Preview on this work 'Bacterial defence systems degrade plasmid invaders' by D. Mazel (2022), *Nature*, doi: <https://doi.org/10.1038/d41586-d41586-022-00871-4> (News & views).
  - ➔ Preview on this work 'Thanks, but no thanks: Cholera pathogen keeps incoming DNA at bay' by S. Almagro-Moreno (2022), *Cell Host & Microbe* <https://doi.org/10.1016/j.chom.2022.05.011> (Preview).
  - ➔ Featured in *Nature's* podcast by B. Thompson on April 6<sup>th</sup> 2022.
  - ➔ Featured In Brief in *Nat. Rev. Microbiol.* (2022): New DNA defence modules by Du Toit A.; doi: 10.1038/s41579-022-00737-6

- Article highlighted in several news channels.
- Classified as ‘*Highly Cited Paper*’ by Web of Science (refers to top 1% of the academic field of Microbiology; as of Sept/Oct 2023)

Flaugnatti N.\*, Isaac S.\*, Lemos Rocha L.F., Stutzmann S., Rendueles O., Stoudmann C., Vesel N., Garcia-Garcera M., Buffet A., Sana T.G., Rocha E.P.C., **Blokesch M.** (2021) Human commensal gut Proteobacteria withstand type VI secretion attacks through immunity protein-independent mechanisms. *Nat. Commun.*, 12:5751. (\*equal contribution)

- Article highlighted in several news channels including *The Scientist*.

Vesel N., **Blokesch M.** (2021) Pilus production in *Acinetobacter baumannii* is growth phase dependent and essential for natural transformation. *J. Bacteriol.*, 203:e00034-21.

- Article selected for Spotlight Selection section (April 2021)
- Highlighted as top cited article in 2022 [covering last two years].

Drebes Dörr N.C., **Blokesch M.** (2020) Interbacterial competition and anti-predatory behavior of environmental *Vibrio cholerae* strains. *Environ. Microbiol.*, 22:4485-4504.

- Featured as *News and Analysis – Genome Watch* in *Nat. Rev. Microbiol.* (2021): Getting ahead of the competition by Kane L. and Dorman M.J; doi: 10.1038/s41579-021-00599-4

Stutzmann S., **Blokesch M.** (2020) Comparison of chitin-induced natural transformation in pandemic *Vibrio cholerae* O1 El Tor strains. *Environ. Microbiol.*, 22: 4149-4166.

Piel D., Bruto M., James A., Labreuche Y., Lambert C., Janicot A., Chenivesse S., Petton B., Wegner K.M., Stoudmann C., **Blokesch M.**, Le Roux F. (2020) Selection of *Vibrio crassostreae* relies on a plasmid expressing a type 6 secretion system cytotoxic for host immune cells. *Environ. Microbiol.*, 22:4198-4211.

Matthey N., Stutzmann S., Stoudmann C., Guex N., Iseli C., **Blokesch M.** (2019) Neighbor predation linked to natural competence fosters the transfer of large genomic regions in *Vibrio cholerae*. *eLife*, 8:e48212.

- Article recommended by Faculty of 1000 (F1000) as ‘*New finding*’ and rated as ‘*good*’.
- Article highlighted as Featured Research on the PLoS Cholera Channel.

Adams D.W., Pereira J.M., Stoudmann C., Stutzmann S., **Blokesch M.** (2019) The type IV pilus protein PilU functions as a PilT-dependent retraction ATPase. *PLoS Genet.*, 15:e1008393.

Adams D.W.<sup>#</sup>, Stutzmann S., Stoudmann C., **Blokesch M.**<sup>#</sup> (2019) DNA-uptake pili of *Vibrio cholerae* are required for chitin colonisation and capable of kin recognition via sequence-specific self-interaction. *Nat. Microbiol.*, 4:1545-1557. (preprinted in *bioRxiv*, doi: 10.1101/354878). (<sup>#</sup>co-corresponding).

- Featured as *Research Highlight* in *Nat. Rev. Microbiol.* (2019): Settling down on chitin by Andrea Du Toit; doi: 10.1038/s41579-019-0237-y

Metzger L.C.\*, Matthey N.\*, Stoudmann C., Collas E.J., **Blokesch M.** (2019) Ecological implications of gene regulation by TfoX and TfoY among diverse *Vibrio* species. *Environ. Microbiol.*, 21:2231-2247. (\*equal contribution)

- Article highlighted by Wettstadt S. (2020) Should I kill or should I go: T6SS regulation networks in *Vibrio*. *Environ. Microbiol.*, 22:1-4.
- Article ranked as top 10% most downloaded papers among work published between Jan 2018 and Dec 2019 (according to Wiley email as of April 2020)

Matthey N.\*, Drebes Dörr N.C.\*, **Blokesch M.** (2018) Long-read-based genome sequences of pandemic and environmental *Vibrio cholerae* strains. *Microbiol. Resour. Announc.*, 7:e01574-18. (\*equal contribution).

Van der Henst C., Vanhove A.S., Drebes Dörr N.C., Stutzmann S., Stoudmann C., Clerc S., Scrignari T., Maclachlan C., Knott G., **Blokesch M.** (2018) Molecular insights into *Vibrio cholerae*'s intra-amoebal host-pathogen interactions. *Nat. Commun.*, 9:3460. doi:10.1038/s41467-018-05976-x

→ Article recommended by Faculty of 1000 (F1000) as 'New finding' & 'Interesting Hypothesis' and rated as 'very good'.

Jaskólska M., Stutzmann S., Stoudmann C., **Blokesch M.** (2018) QstR-dependent regulation of natural competence and type VI secretion in *Vibrio cholerae*. *Nucleic Acids Res.*, 46:10619-10634.

Stutzmann S., **Blokesch M.** (2016) Circulation of a quorum-sensing-impaired variant of *Vibrio cholerae* strain C6706 masks important phenotypes. *mSphere*, 1:e000098-16.

Metzger L.C., Stutzmann S., Scrignari T., Van der Henst C., Matthey N., **Blokesch M.** (2016) Independent regulation of type VI secretion in *Vibrio cholerae* by TfoX and TfoY. *Cell Rep.*, 15:951-958.

→ Article recommended by Faculty of 1000 (F1000) as 'New finding' and rated as 'very good'.

Van der Henst C., Scrignari T., Maclachlan C., **Blokesch M.** (2016) An intracellular replication niche for *Vibrio cholerae* in the amoeba *Acanthamoeba castellanii*. *ISME J.*, 10:897-910.

Borgeaud S., Metzger L.C., Scrignari T., **Blokesch M.** (2015) The type VI secretion system of *Vibrio cholerae* fosters horizontal gene transfer. *Science*, 347:63-67.

→ Article recommended by F1000 as 'New finding' and rated as 'exceptional'.

→ Article recommended by F1000 as 'Good for teaching' & 'New finding' and rated as 'very good'.

→ Article recommended by F1000 as 'Interesting hypothesis' & 'New finding' and rated as 'very good'.

→ Article recommended by F1000 as 'Interesting hypothesis' & 'New finding' and rated as 'very good'.

→ Classified as 'Highly Cited Paper' by Web of Science (refers to top 1% of the academic field of Microbiology; as of Jan/Feb 2019)

→ Article highlighted in several news channels.

Lo Scrudato M., Borgeaud S., **Blokesch M.** (2014) Regulatory elements involved in the expression of competence genes in naturally transformable *Vibrio cholerae*. *BMC Microbiol.*, 14:327.

Kühn J., Finger F., Bertuzzo E., Borgeaud S., Gatto M., Rinaldo A., **Blokesch M.** (2014) Glucose- but not rice-based oral rehydration therapy enhances the production of virulence determinants in the human pathogen *Vibrio cholerae*. *PLoS Negl. Trop. Dis.*, 8:e3347.

Steinbock L.J., Krishnan S., Bulushev R.D., Borgeaud S., **Blokesch M.**, Feletti L., Radenovic A. (2014) Probing the size of proteins with glass nanopores. *Nanoscale*, 6:14380-14387.

Seitz P., **Blokesch M.** (2014) DNA transport across the outer and inner membrane of naturally transformable *Vibrio cholerae* is spatially but not temporally coupled. *mBio*, 5:e01409-14.

Metzger L.C., **Blokesch M.** (2014) Composition of the DNA-uptake complex of *Vibrio cholerae*. *Mob. Genet. Elements*, 4:e28142.

Seitz P., Pezeshgi Modarres H., Borgeaud S., Bulushev R.D., Steinbock L.J., Radenovic A., Dal Peraro M., **Blokesch M.** (2014) ComEA Is Essential for the Transfer of External DNA into the Periplasm in Naturally Transformable *Vibrio cholerae* Cells. *PLoS Genet.*, 10:e1004066.

→ Featured as *Research Highlight* in *Nat. Rev. Microbiol.* (2014): Bacterial physiology: ComEA pulls in DNA in *Vibrio cholerae* by Hofer U.; doi: 10.1038/nrmicro3220

→ Article recommended by Faculty of 1000 as 'New finding' and rated as 'Exceptional'.

Venkova-Canova T., Baek J.H., FitzGerald P.C., **Blokesch M.**, Chatteraj D.K. (2013) Evidence for two Different Regulatory Mechanisms Linking Replication and Segregation of *Vibrio cholerae* Chromosome II. *PLoS Genet.*, 9:e1003579.

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## **PRIORITY CLAIMS & PATENTS**

**Blokesch M.**, Jaskólska M., Adams D.W. (2021) Recombinant bacteria resistant to horizontal gene transfer and phage infection. **Priority claim EP21183501.2**; filed July 2<sup>nd</sup>, 2021 (European Patent Office); patent application filed on 30.06.2022.