

Jörg Jores

Institute of Veterinary Bacteriology (IVB) Extraordinary Professor and Director of the IVB

University of Bern
Department of Infectious Diseases and Pathobiology (DIP)
Länggassstrasse 122, 3012 Bern, Switzerland
Phone +41 31 684 24 14
Email joerg.jores@unibe.ch

DOB December 27, 1969
Place of birth Belzig, Germany
Nationality German
Marital status Married to Anne Fischer ep. Jores, two daughters: Manon Lea Jores (DOB: June 8, 2011) & Camille Freya Jores (DOB: November 8, 2013)
ORCID 0000-0003-3790-5746

CURRENT POSITION

2016 - present Professor & Director of the Institute of Veterinary Bacteriology
2017 - present Senior Fellow of ZEF (Center for Development Research, University of Bonn)
2019 - present Chief Financial Officer (CFO) of the Vetsuisse Faculty Bern
2021 - present Multidisciplinary Center of Infectious Diseases - Deputy Directorate
Member and Cluster Co-Chair "Microbiology"

1a. EDUCATION

1988 Extended secondary school, final examen
1988 – 1990 Military service
1990 – 1996 DVM (State exam in Veterinary Medicine) FU Berlin
1996 – 2001 Dr. med. vet. in Microbiology (German Ph.D. equivalent) FU Berlin
2006 (Chamber) Recognized Specialist in Veterinary Microbiology
2015 *Venia docendi* in the field veterinary bacteriology at the University of Bern
2020 Diplomate of the European College of Veterinary Microbiology (ECVM)

1b. PROFESSIONAL AND ACADEMIC EXPERIENCES

1996 – 1999 Scientific staff member at the Robert Koch-Institute, Department of Horizontal Gene Transfer, Berlin, Germany
1999 – 2005 Scientific staff member at the FU Berlin, Faculty of Veterinary Sciences, Institute of Microbiology and Epizootics, Berlin, Germany
2005 – 2016 Principal scientist and Research Group Leader at the International Livestock Research Institute in the department of Vaccine Biosciences, Nairobi, Kenya
2016 – present Professor and director of the Institute of Veterinary Bacteriology at the University of Bern, Switzerland

FURTHER PROFESSIONAL AND SCIENTIFIC EXPERIENCE

1999 Requisite qualification in Genetic Engineering
1999 – 2005 Biological safety officer for genetically modified organisms at the Institute of Microbiology and Epizootics, FU Berlin, Germany
2005 – 2016 Member of the Institutional Biosafety Committee (IBC) of the International Livestock Research Institute (ILRI) in Nairobi, Kenya
2014 – 2016 Member of the Staff Council of the International Livestock Research

2018 – present Institute (ILRI) in Nairobi, Kenya
Resource manager at the IVB for *in vivo* studies
2021 – present Establishment of the first Swiss ECVI training centre at the University of Bern

2a. TEACHING

1999 – 2005 Lecturing and conducting practical trainings for veterinary students at the FU Berlin
Lectures: General Microbiology (such as physiology of bacteria, etc.)*
Lectures: Clinical veterinary microbiology (focused on selected genera, e.g., Bacillus)
Lectures: Epizootics & Epizootic Diseases Act (disease, diagnosis & implications of veterinary law)
Practical course: Diagnosis of Veterinary Pathogens (bacteria and fungi)
Seminar format: veterinary vaccines
Seminar format: Phylogeny and Evolution
I gave >180 h of face-to-face teaching)

2005 – 2016 Capacity development with students from the global South at the International Livestock Research Institute in Nairobi, Kenya

2014 – 2015 One day course given to veterinary students at the FU Berlin in the field of African Livestock Diseases

2016 – present Responsibility for the entire veterinary bacteriology and mycology teaching portfolio at the Vet Suisse faculty in Bern. This includes lectures, courses and seminars given to veterinary students and Phil Nat students. The following subjects are covered: general microbiology, diagnostic methods, public health, biology of microorganisms, clinical microbiology, phylogeny and evolution, clinical signs, and a resident programme. I give most lectures of the institute, which summarize to a minimum of 17 contact hours per year.

2018 Exams of veterinary students were switched from oral to written format

2019 – present Lectures on zoonotic diseases given to CAS students at the University of Basel, half a day per year (8 h)

2b. CONTRIBUTIONS TO THE CAREER OF YOUNG SCIENTISTS

Selected postdoctoral scientists and assistants of my lab.

Flavio Sacchini Veterinary Officer and head of the immunology and serology department (supervision of 15 staff members) at IZS in Teramo, Italy

Fabien Labroussaa Director of the Animal Mycoplasmas unit at ANSES-VetAgro Sup in Lyon, France, He received intramural funds from the MCID to produce tailor-made phages and is an adjunct scientist and co-leads this project until 2/2025. He was co-PI on the Huvepharma grant and co-applicant on EU and SNF grants of mine. We co-supervised MSc and DVM students.

I co-supervised DVM and MSc students with staff members, involved the latter in resource mobilization and concepts of teaching to gradually acquire more responsibility and to develop their own research path.

PhD and DVM students (as main supervisor)

Ongoing: Thatcha Yimthin (PhD student - SNF project), Jeremy Cherbuin (PhD student - MCID project), Jana Inäbnit (DVM student - SNF project), Nadine Kurt (DVM student – IDRC project)

Finished: Nimmo Gicheru, PhD degree from Leuven University in 2023; Virginia Hill, PhD degree from University of Bern in 2023; Paul Ssajakambwe, PhD degree from Makerere University in 2023
Melanie Schumacher, DVM from University of Bern in 2019; Flavio Sacchini, DVM from University of Bern in 2020; Marina Strässle, DVM from University of Bern in 2021; Nadia Scalisi, DVM from University of Bern in 2022, Milena Tresch, DVM from University of Bern in 2022
Ute Boehnke, MSc from FU Berlin; Yolaine Cavignac, MSc from FU Berlin; Bart Ondigo, MSc from ILRI; Rubén Sánchez Barbarroja, MSc from University of Bern in 2020

3. SERVICE

Governing activities

DIRECTOR OF THE INSTITUTE OF VETERINARY BACTERIOLOGY (IVB)

2016 Leadership of the institute
2016 BSO for the BSL3 work of the IVB
2016 Head of the diagnostic laboratory, which hosts several Swiss Reference Laboratories
2016 Head of the research group Host-Pathogen Interactions
2016 Responsible for finance and HR decisions and reporting of the IVB

INSTITUTIONAL RESPONSIBILITIES (VETSUISSE FACULTY AND UNIVERSITY OF BERN)

2016 – present Member of the Vetsuisse assembly
2017 – 2018 Appointment Committee member for Professorship “Parasitology”, Vetsuisse Faculty, University of Bern
2019 – present Chief Financial Officer (CFO) of the Vetsuisse Faculty Bern
2019 – present Vetsuisse faculty board member, University of Bern
2019 – present Board member of the steering committee Institute of Virology and Immunology (IVI) and University of Bern
2019 – present Board member of the steering committee of the Veterinary Public Health Institute (VPHI)
2021 – present Cluster Co-Chair "Microbiology" of the Multidisciplinary Center for Infectious Diseases (MCID), University of Bern
2023 – present Appointment Committee member for Assistant Professorship “Small Animal Surgery”, Vetsuisse Faculty, University of Bern
2023 Member of the commission “fit for future” which aims to best align the university structure and administration for future challenges

REVIEWING ACTIVITIES

Editorial Board Member: Pathogens (ISSN 2076-0817; CODEN: PATHCD), Frontiers in Microbiology, Discovery Medicine (ISSN 1539-6509 EISSN 1944-7930)

Ad hoc reviewer for peer-reviewed journals: ACS Synthetic Biology, BMC Complementary and Alternative Medicine, BMC Microbiology, BMC Veterinary Research, Cellular Microbiology, Clinical and Vaccine Immunology, Comparative Immunology, Computational and Structural Biotechnology Journal, Emerging Infectious Diseases, Eurosurveillance, FEMS Microbiological Letters, Frontiers in Microbiology, Infection and Immunity, Infection Genetics and Evolution, iScience, Genes, Journal of Clinical Microbiology, Microbial Genomics, Microbial Pathogenesis, Microbiology & Infectious Diseases, Microbiology Spectrum, NPJ Vaccines, PLoS GENETICS, PLoS ONE, Science

Advances, Signal Transduction and Targeted Therapy, Small Ruminant Research, The Veterinary Journal, Transboundary and Emerging Diseases, Vaccine, Veterinary Immunology and Immunopathology, Veterinary Microbiology, Veterinary Pathology, Virus Research

Ad hoc reviewer for funding agencies: Biotechnology and Biological Sciences Research Council (BBSRC, UK), Bill and Melinda Gates Foundation (BMGF, USA), European Union (EU), French National Institute of Health and Medical Research (INSERM, France), Genome British Columbia/Genome Canada (Canada), German Federal Ministry of Education and Research (BMBF, Germany), German Federal Office for Agriculture and Food (Germany), German Research Foundation (DFG, Germany), Purdue US Borlaug Fellows in Global Food Security (USA), Branco Weiss Fellowship (Switzerland), The Royal Society (UK), Swiss Federal Food Safety and Veterinary Office (Switzerland), Panel Review Member for the Advisory Service on Agricultural Research for Development (BEAF, Germany) 2017-2020

MEMBERSHIP OF SCIENTIFIC SOCIETIES

- American Society for Microbiology (ASM)
- ESCMID study group for Veterinary Microbiology
- European College of Veterinary Microbiology (ECVM)
- German Society of Veterinary Medicine (DVG)
- International Organization of Mycoplasmatology (IOM), Board of Directors (At-large member) 2016-2018, 2023-2025
- Swiss Society of Microbiology (SSM)
- Swiss Society of Veterinarians (GST)

4. RESEARCH

Research projects and funding as leading investigator (last 10 years)

- 2022 – 2025 Donor: Multidisciplinary Center for Infectious Diseases (MCID)-University of Bern; Project title: 'CORE activity: BioPreparedness biobank repository'; IVB Budget allocation: 300,000 CHF, Role: Co-Principal Investigator, responsible for Synthetic Genomics pipeline
- 2021 – 2025 Donor: European Union - Horizon 2020 - RIA; Project title: 'A Cross-Disciplinary Alliance to Identify, PREDict and prePARE for Emerging Vector-Borne Diseases (PREPARE4VBD)'; UBERN Budget allocation: 657,988.97 €; Duration: 9/2021-8/2025; Role: Leader of work package 5
- 2021 – 2025 Donor: Swiss National Science Foundation; Project title: "Deciphering Mycoplasma-host interactions using synthetic genomics"; Project number: 310030_201152; Budget: 898,729 CHF; Role: Principal Investigator
- 2016 – 2019 Donor: National Science Foundation (USA); Project title: 'Special creative cost extension related to the project BREAD: Toward Development of a Vaccine for Contagious Bovine Pleuropneumonia'; Total budget for University of Bern US\$192,798; Role: Co-Principal Investigator, Partners: J. Craig Venter Institute (USA), INRA (France)
- 2017 – 2020 Donor: Vaccine challenge fund from IDRC (Canada); Project title: 'Development of a novel vaccine for contagious caprine pleuropneumonia based on a fast-growing *Mycoplasma feriruminatoris* chassis'; Total budget: 1,400,000 CAD; Role: Principal Investigator; Partner institutions: INRA (France), J. Craig Venter Institute (USA)

- 2015 – 2017 Donor: GalvMed (UK); Project title: 'Development of a novel and robust live vaccine for contagious caprine pleuropneumonia (CCPP)'; Total budget: US\$463,084; Role: Principal Investigator
- 2015 – 2016 Donor: Bill and Melinda Gates Foundation, 'Study of efficacy and safety of BEN-1 vaccine for CBPP in Africa' Budget US\$1,864,751, Role: Co-applicant (supplement of US\$299,728 to fund an immunology component)
- 2014 – 2017 Donor: Federal Ministry for Economic Cooperation and Development (BMZ)-Germany, 'Development of an improved vaccine for progressive control of Contagious Bovine Pleuropneumonia' Budget 1,200,000 €, Role: Principal Investigator
- 2012 – 2015 Donor: National Science Foundation (NSF)-USA, 'BREAD: Toward Development of a Vaccine for Contagious Bovine Pleuropneumonia', Budget US\$2,168,865, Role: Co- Principal Investigator with a budget allocation of US\$459,779
- 2011 – 2014 Donor: Federal Ministry for Economic Cooperation and Development (BMZ)-Germany, Project Processing No.: 09.7860.1-001.00, 'Accelerating CBPP research towards a better vaccine through the application of synthetic biology', Budget 290,944 €, Duration: 09/2011 - 12/2014, Role: Principal Investigator
- 2010 – 2014 Donor: Federal Ministry for Economic Cooperation and Development (BMZ)-Germany, Contract No: 81121408, Project No: 09.7860.1-001.00, 'Enhanced Control of CBPP in sub-Saharan Africa through Development of Better Diagnostics and Vaccines' Budget 1,200,000 €, Role: Principal Investigator

Research funding Federal Food Safety and Veterinary Office (Switzerland)

- 2021 – 2023 Project title: 'Are wild boars in Switzerland a reservoir for enzootic pneumonia and what is the current serological status of the Swiss domestic pigs?'; Budget: 227,706 CHF; Role: Principal Investigator

Research funding from industrial partners

- 2018-2021 Huvepharma (Belgium); Project title: 'Development of novel vaccines against infections with *Mycoplasma hyopneumoniae*'; Budget: 338,399 €; Role: Principal Investigator

Prizes, fellowships, distinguished memberships

- 2022 Charles C. Shepard Science Award - Laboratory Science (together with the other co-authors of the paper: PMID 33636719)
- 2023 Committee member (Treasurer) of the Swiss Society of Microbiology

Organization of conferences

- 2023 Scientific program committee member of the 24th Biennial Congress of the International Organization for Mycoplasma (IOM), Osaka (Japan), July 16-20
- 2019 Scientific program committee member of the European Mycoplasma Conference, London (UK), March 18-19
- 2018 Organizer of the international workshop "Contagious Bovine Pleuropneumonia and Contagious Caprine Pleuropneumonia: an update on the current knowledge base" in Bern, Switzerland 31st January until 1st February
- 2014 Scientific program committee member of the 20th Congress of the International Organization for Mycoplasma, Blumenau (Brazil), June 1-6

- 2013 Organizer of the international workshop “Contagious Bovine Pleuropneumonia, what is known, what is unknown and what do we need to know in order to better control the disease in Africa” in Addis Ababa (Ethiopia) January 24-26

PUBLICATION

Total number of peer-reviewed publications: >100; H-index: 35 (google scholar)

See: <https://pubmed.ncbi.nlm.nih.gov/?term=Jores+j%5Bau%5D&sort=date>

Books/monographs (last 5 years)

- 4) **Jörg Jores**, Chapter 15: Mykoplasmen: zellwandlose Bakterien der Klasse *Mollicutes*, in Tiermedizinische Mikrobiologie, Infektions- und Seuchenlehre, 11. Auflage, Thieme Verlag, ISBN 978-3-13-244251-1, 2023
- 3) Fabien Labroussaa*, Sergi Torres-Puig*, **Joerg Jores**, Chapter 1: Genome transplantation in Mollicutes, in the book series Methods in Microbiology: Elsevier, Volume 52, DOI: 10.1016/bs.mim.2023.02.001, *equal contribution, 2023
- 2) Peter Kuhnert and **Jörg Jores**, Title: *Mycoplasma hyopneumoniae* pathogenicity: the known and the unknown, in the book: Mycoplasmas in Swine, Editors: Dominiek Maes, Marina Sibilia & Maria Pieters, Acco (Belgium), ISBN: 978-94-6379-796-2, Pages: 73-86, 2020
- 1) Tran Thi Nhu Thao*, Fabien Labroussaa*, Nadine Ebert, **Joerg Jores***, Volker Thiel*, Chapter 13: In-yeast assembly of coronavirus infectious cDNA clones using a synthetic genomics pipeline, to be published in the book: Coronaviruses - Methods and Protocols, Editors: Helena Maier, Erica Bickerton, Paul Britton, Springer (New York), Volume 2203, *equal contribution, 2020