



Stefanie Prast-Nielsen

Assistant Professor

Centre for Translational Microbiome Research, Karolinska Institutet, Stockholm, Sweden

Assistant Professor in Metagenomics, PhD in Biochemistry, several years of work experience in next generation sequencing and bioinformatics analysis using LINUX/UNIX, Python, R, Biostatistics. Experience in project management, good organizational and leadership skills.

Personal Info

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WWW

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Top Skills

Project management

Data Analysis/Biostatistics

High Throughput Technologies
& Protocol Optimization

Work History

2019-Current

Scientific Advisor

Kintai Therapeutics, Cambridge, MA, USA

2018-Current

Assistant Professor/Principal Investigator

Centre for Translational Microbiome Research (CTMR), Karolinska Institutet, Stockholm, Sweden

- Project management, optimization, data analysis and interpretation of diverse microbiome projects both independent projects (as PI) and projects within CTMR.

2016-Current

Lecturer

Karolinska Institutet, Stockholm, Sweden

Lecturer in the following courses:

- Biomedical Ecology - The microbiota in health and disease (PhD level)
- Cellular and Molecular Infection (Bachelor)
- Infection and immunity (Bachelor)

2014-2019

Co-supervisor

Karolinska Institutet, Stockholm, Sweden

Co-supervisor (20%) for PhD student Mauricio Barrientos-Somarrivas, Title of PhD thesis: "[Tailoring Bioinformatics Strategies for the Characterization of the Human Microbiome in Health and Disease](#)" at the Department of Cell and Molecular Biology, Date of defense: September 20th 2019

2017

Senior postdoctoral fellow

Familiar with LINUX/UNIX, Python and R

Teaching

Languages

German (Native)

English (Full Professional)

Swedish (Full Professional)

Norwegian (Basic Knowledge)

French (Basic Knowledge)

Russian (Basic Knowledge)

Centre for Translational Microbiome Research (CTMR), Karolinska Institutet, Stockholm, Sweden (Prof. Lars Engstrand)

- Project planning, optimization, data analysis and interpretation of diverse microbiome projects.

2015-2017

Senior postdoctoral fellow

Karolinska Institutet and Karolinska University Hospital, Stockholm, Sweden; Department of Microbiology, Tumor and Cell Biology (Prof. Birgitta Henriques Normark)

- Responsible for sequencing data analysis and interpretation of both metagenomics and comparative genomics projects focusing on *Streptococcus pneumoniae* infections.

2011-2015

Postdoctoral fellow

Karolinska Institutet, Stockholm, Sweden; Department of Cell and Molecular Biology, Genome Analysis Group (Prof. Björn Andersson)

- Responsible for data production, analysis, and interpretation of the microbiome study for the MAARS European Consortium (www.maars.eu).

2009-2010

Postdoctoral fellow

Karolinska Institutet, Stockholm, Sweden; Department of Medical Biochemistry and Biophysics, Division of Biochemistry (Prof. Elias Arnér)

- Responsible for the development and optimization of a high-throughput screen to discover novel potential anticancer agents applied at the NIH Chemical Genomics Center, Bethesda, USA.

2005-2010

Teacher (University level)

Karolinska Institutet, Stockholm, Sweden; Department of Medical Biochemistry and Biophysics

- Teaching biochemistry to medical and biomedical students (20% of full-time)



Education

2005-2009

Ph.D.: Medical Biochemistry

Karolinska Institutet, Stockholm, Sweden; Department of Medical Biochemistry and Biophysics, Division of Biochemistry

- Dissertation: "[Exploring Thioredoxin Reductase as an Anticancer Drug Target](#)"
- Main supervisor: Prof. Elias Arnér
- Co-supervisor: Prof. Sten Orrenius

- Graduate Students Associations (GSA)
Representative - Student representative in the KIRT
(Karolinska International Research Training)
committee

1998-2004

Diploma/Master of Science: Human Biology

Ernst Moritz Arndt University, Greifswald, Germany

- Graduated summa cum laude
- Majored in Pharmacology/Toxicology
- Minored in Biochemistry/Molecular Biology &
Microbiology/Virology



Further Accomplishments

Additional Pedagogical Merits

- Course "Basic Education for University Teachers", 4.5 ECTS, Karolinska Institutet, Centre for Medical Education (CME), Department of Learning, Informatics, Management and Ethics (LIME) 2009
- Member of half-time committee of Ph.D. Student Carol Jessica Guzman Otazo, Main supervisor: Ass. Prof. Åsa Sjöling 2017
- Supervision of several undergraduate students 2019
- Supervision of four different students at the Department of Medical Biochemistry and Biophysics, Karolinska Institutet 2006-2010

Awarded Funding as Main Applicant

- Swedish Brain Foundation, Margarethahemmet Society, Sunnerdahls Handikappfond, Jerringfonden, Linnea & Josef Carlssons Foundation, Karolinska Institutets Research Funds

Peer-reviewer, since 2012

- For a variety of scientific journals as well as the French National Research Agency (ANR), Generic Call for Proposals