

PROF. DR. ANDREAS BOLAND

PERSONAL INFORMATION

Date of birth: 09.01.1983 in Cologne
Nationality: German
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<https://scholar.google.co.uk/citations?user=6Vvsl-cAAAAJ&hl=en&oi=sra>

EDUCATION

01/2009 - 01/2014 **Ph. D. in Biochemistry**
Max Planck Institute for Developmental Biology, Tübingen, Germany
“Structural characterisation of eukaryotic mRNA decay factors”
Advisor: Prof. Dr. Elisa Izaurralde († 30th April 2018)
Awarded with distinction (summa cum laude).

11/2007 – 12/2008 **Research for degree thesis (Diplomarbeit) in Biology**
Leibniz Institute for Age Research, Jena, Germany
Advisor: Prof. Dr. Christoph Englert
“Characterisation of the + and –KTS isoforms of the tumour suppressor protein WT1”

EMPLOYMENT HISTORY

12/2018 - now **Assistant Professor at the University of Geneva**
Department of Molecular Biology
University of Geneva, Sciences III, Geneva, Switzerland

01/2014 – 10/2018 **Postdoc as EMBO and Marie Skłodowska-Curie fellow**
Advisor: David Barford laboratory, Division of Structural Studies
MRC Laboratory of Molecular Biology (LMB), Cambridge, United Kingdom

APPROVED RESEARCH PROJECTS / AWARDED GRANTS AS PRINCIPAL INVESTIGATOR

2023 – 2027 **Deciphering the molecular mechanisms underlying chromosome segregation.**
Swiss National Science Foundation (SNF), “Swiss ERC Starting grant”, single applicant.

2023 **Faster and deeper: acquisition of a Falcon 4i camera with Selectris X for high-end cryo-microscopy at DCI Geneva.**
SNF, upgrade of the DCI-Geneva, main applicant.

2022 – 2024 **Deciphering the molecular mechanisms underlying chromosome segregation.**
Swiss Cancer League, single applicant.

2022 **Solving the cryoEM structure of the μ -opioid receptor bound to a nanobody antagonist.**
Fondation Ernest Boninchi, Co-applicant with Prof. Miriam Stöber.

2022 **Hybrid pixel detector for electron microscope Talos LC120.”**
SNF, establishing microED at cryogenic, Co-applicant.

2019 – 2023 **Structural studies of cytokine-mediated signal transduction.**
SNF, sole applicant.

2019 **Mechanisms of leptin-mediated cell signalling.**
Fondation Ernst et Lucie Schmidheiny, single applicant.

2019 **Structural studies of cell cycle regulatory proteins.**
Novartis Foundation for Medical-Biological Research, single applicant.

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2019 – now PhD candidates: Anna Höfler, Lina Poulain, Sophia Schmidt
 Postdoc scientists: Jun Yu, Xuefeng Zhang, Margherita Botto
 Technicians: Caroline Gabus, Yvan Pfister

SCIENTIFIC REVIEWING ACTIVITIES

2021 – now Reviewer for the journals Nature, Nature Structural & Molecular Biology (NSMB),
 Structure, Communications Biology, Protein Science and Molecular Biotechnology.
2021 – now Reviewer for a project grant of the Swiss National Science Foundation (SNSF)
2021 – now Reviewer for a project grant of the Medical Research Council (MRC), UK

MEMBERSHIPS IN SCIENTIFIC SOCIETIES

2020 – now Member of "LS2 Life Science Switzerland"
2012 – now Member of "Gesellschaft für Biochemie und Molekularbiologie e.V." (GBM)

ORGANISATION OF CONFERENCES AND LECTURES

06/2022 Main Organiser, DCI symposium '22 jointly hosted by UNIGE, UNIL and EPFL
06/2020 MRC-LMB and University of Geneva co-joint PhD symposium 2020

FELLOWSHIPS AND AWARDS

01/2023 – 12/2027 **Selected for the EMBO Young Investigator Program (YIP)**
 4-years program
03/2016 – 02/2018 **Marie Skłodowska-Curie postdoctoral fellowship.** Horizon 2020 programme
 Granted for two years
06/2014 – 02/2016 **European Molecular Biology Organization (EMBO) Long-term fellowship**
 Granted for two years, used for 21 months
01/2014 – 05/2014 **Career developmental fellowship (CDF) from the MRC-LMB**
 Granted for 2 years, used for five months
01/2009 – 01/2014 **Predocctoral fellowship** at the MPI Tübingen

SELECTED CONFERENCE PARTICIPATIONS / SEMINARS IN 2021 - 2023 (PLANNED)

03/2023 "Visualising the complex dynamics of biological membranes", Rehovot, **Invited Speaker**
10/2022 The cell cycle: One engine – many cycles, EMBO workshop, Konstanz, **Invited Speaker**
09/2022 Genome organisation by SMC complexes, Edinburgh, **Invited Speaker**
09/2022 9th Electron tomography congress, Egmond an Zee
09/2022 5th Austrian CRYO-EM SYMPOSIUM, Vienna, **Invited Speaker**
06/2022 DCI Symposium, Geneva + Lausanne, **Organiser**
05/2022 Chromosome segregation and aneuploidy, EMBO meeting, Vienna
01/2022 BZMB-Kolloquium, Bayreuth, **Invited Speaker**
11/2021 Friedrich Miescher Laboratory (FMI) YISS, Basel, **Invited Speaker**
10/2021 Harvard Medical School (HMS), Boston, **Invited Speaker**
10/2021 Columbia University, NYC, **Invited Speaker**
09/2021 Biozentrum Basel, **Invited Speaker**
07/2021 Faculty of Medicine at UNIGE, **Speaker**
06/2021 Salk Institute Cell Cycle meeting, **Invited Speaker**