



# Jochen Imig

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## Ph.D. in Biology/Genetics

Extensive experiences in advanced molecular biology  
+10 years of practice in highly renowned research laboratories

### Areas of competence:

- Systems Biology
  - RNA Biology (non-coding RNAs, CLIP's)
  - Cancer (melanoma)
  - Large-scale genome editing screening (CRISPR/Cas9)
  - Epigenetics, dynamic change of 3D-chromatin architecture in disease
  - Teaching and Tutoring, supervision and project management
  - Large-scale proteomic and genomics
  - Independent project management and group leading
  - Independent fund raising
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### Professional Experience

**Max-Planck Institute of Molecular Physiology- Chemical Genomics Centre** | Independent Research  
Group Leader June 2019 – Now

**NYU School of Medicine, New York, USA** | Postdoctoral fellow Feb 2016 – May 2019  
Department of Pathology, Group of Prof. I. Aifantis

- CRISPR/Cas9 based large scale genomic screens to identify lncRNAs drivers in melanoma progression, metastasis and drug resistance

**ETH Zurich, Zurich, Switzerland** | Postdoctoral fellow Sep 2015 – Jan 2016  
Institute of Pharmaceutical Sciences, Group of Prof. Dr. A. Gerber and Prof. J. Hall

- developing novel tools to identify whole miRNA targetomes *in vivo*
- RNA-RBP systems biology in *C. elegans* germline apoptosis pathways
- miRNAs in HIV infection

**University of Basel, Basel, Switzerland** | Postdoctoral fellow Nov 2014 - Jul 2015  
Biozentrum- Department of Computational and System Biology, Group of Prof. Mihaela Zavolan

- CRISPR/Cas9 guided mutation generation of miRNA-lncRNA sponge relevant in muscle differentiation and cancer proliferation

**ETH Zurich, Zurich, Switzerland** | Postdoctoral fellow Mar 2010 – Oct 2014  
Institute of Pharmaceutical Sciences, Group of Prof. Dr. A. Gerber and Prof. J. Hall

- RNA systems biology
- Tutoring undergraduate pharmaceutical and biomedical master students
- Practical/theoretical supervision of master student thesis (full time)

**Saarland University Medical School, Saarland, Germany** | Ph.D. Student Feb 2007 – Dec 2009  
Institute of Virology, group of Prof. Dr. F. Grässer

- Ph.D. thesis: Functional characterization of viral and cellular microRNA expression in EBV-associated B-cell lymphomas
- developed skills in small RNA Biology relevant in B-cell lymphoma models
- Teacher in medicinal virology practical course for undergraduates

**University Hospital Zurich, Zurich, Switzerland** | Guest scientist

Feb 2007 – Dec 2009

Department of Oncology, group of Prof. Renner

- Ph.D. student and guest scientist within the frame of the thesis at Department of Oncology

## Education

<b>Saarland University Medical School, Germany</b>	Ph.D.   Genetics and Virology	2009
<b>Saarland University Medical School, Germany</b>	Diploma   Biology: Major in Genetics	2004
<b>Saarland University Medical School, Germany</b>	Vordiplom (equivalent to Bachelor)   Biology	2003

## Certificates: Workshops and Courses (Selection)

Project management course | Swiss Institute of Bioinformatics (SIB), Lausanne, 2015  
 Practical work and handling of radioactive substances | ETH Zurich, 2011  
 Course for Biological Safety Officer | University of Zurich, 2006  
 Best Practices in Teaching and Learning | NYU, 2016

## Conferences (selection)

RNPnet "RNA and Disease, 2015, Marrakesh, Morocco ([Oral presentation](#))  
 Aegean International Conference of the Long and the Short Non-Coding RNAs, 2015 and 2019, Chania, Greece ([Oral presentations](#))  
 National Centre of Competence in Research (NCCR) „RNA and Disease“, Seminar Series, 2014 (supporting talk for Prof. Joan A. Steitz, Yale), ETH Zurich, Switzerland  
 RNA Society Meeting 2013, Davos, Switzerland ([Oral presentation](#))  
 Cell Symposium regulatory RNAs, 2011, Chicago, USA  
 Keystone Symposium MicroRNA and Cancer, 2009, Keystone, USA

## Awards

Award for "Excellent Scientific Contribution" of the Aegean International Conference on the Long and the Short of Non-Coding RNAs, 2015, Chania, Greece

## Training and Courses

Live laboratory animal handling course, NYU, New York, 2017  
 Project management course, Swiss Institute of Bioinformatics (SIB), Lausanne, 2015  
 Practical work and handling of radioactive substances, ETH Zurich, 2011  
 Biolaboratory Safety and Biosafety level 2 (BL2) operations = Biosafety Officer, University of Zurich, 2006

## Memberships and other Activities

Former member of the Swiss Institute of Bioinformatics  
 Past member of the National Centre of Competence in Research (NCCR) „RNA and Disease“, Switzerland  
 Ad Hoc referee for Science, Nature Methods (under mentorship), Biomolecular Concepts, Genes, International Journal of Molecular Sciences, etc.

### Teaching experiences

NYU STEP Program Seminar: Best Practices in Teaching and Learning, New York, 2016

2019 Seminars in Bioorganic Chemistry MPI Dortmund

2014 undergraduate pharmaceutical and biomedical Master students at ETH

2010 undergraduate medicinal virology practical course

2009 practical/theoretical supervision of master student thesis (full time)

2000 undergraduate medicinal biochemistry practical course (part time)

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### References

**Prof. Ioannis Aifantis**, Department of Pathology, New York University Medical School, New York, USA  
[ioannis.aifantis@nyumc.org](mailto:ioannis.aifantis@nyumc.org)

**Prof. Jonathan Hall**, Institute of Pharmaceutical Sciences, ETH, Zurich, Switzerland  
[jonathan.hall@pharma.ethz.ch](mailto:jonathan.hall@pharma.ethz.ch)

**Prof. Mihaela Zavolan**, Biozentrum, University of Basel and Swiss Institute of Bioinformatics, Basel, Switzerland,  
[mihaela.zavolan@unibas.ch](mailto:mihaela.zavolan@unibas.ch)