

CURRICULUM VITAE

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Education:

1990-1992 Undergraduate in Biology, University of Cologne, Germany
1992-1995 M.Sc (Dipl. Biol.): Biochemistry, University of Cologne, Germany
1995-1998 Ph.D. (Dr.rer.nat.) Institute for Molecular Genetics, Faculty of Mathematics and Natural Sciences, University of Cologne, Germany & the Dept. of Neuroimmunology, McGill University, Montreal, Canada

Employment history including current position:

1999-2002 Post-Doctoral fellow, Dartmouth Medical School, Lebanon, NH, USA
2002-2003 Asst. Professor, Dartmouth Medical School, Lebanon, NH, USA
2003-2008 Asst. Professor, Dept. of Neurology, University of Zurich (UZH), Switzerland.
2008-2012 Assoc. Professor & Chair of the Inst. of Experimental Immunology, UZH, Switzerland
2012-today Professor & Chair of the Inst. of Experimental Immunology, UZH, Switzerland

Institutional responsibilities

2014-2016 Chair of Preclinical Research Departments and Member of the Executive Faculty Board, Medical Faculty, UZH
2004-today Member of the Research Committee of the Medical Faculty, UZH

Approved research projects (currently running, B. Becher as PI)

2020-2025 High-Dimensional single cell mapping of inflammatory disease signatures in monozygotic twins (IMPACT) (**ERC-AdG**), €2'500'000
2020-2025 Host-targeted Approaches for the Prevention and the treatment of Hospital-Acquired Pneumonia (HAP2) (**EU H2020**) €1'500'00
2019-2023 The role of the cytokine GM-CSF in mammalian myelopoiesis during development, steady state and dysregulation (**SNSF**) CHF 1'147'080
2019-2023 IndividualizedPaediatricCure (iPC): Cloud-based virtual patient models for precision pediatric oncology (**EU H2020**) € 1'451'213
2018-2023 Machine learning based integration of high-dimensional cytometry and radiomics data to identify treatment responses in cancer-immunotherapy (**SNSF, SINERGIA**) CHF2'109'412
2018-2021 Harnessing innate lymphoid cell surveillance of cancer metastasis (**Swiss Cancer League**) CHF 307'247
2019-2021 Development of a clinical trial of combination-therapy with intratumoral IL-12 and checkpoint blockade to treat patients with glioblastoma (**URPP: Translational cancer research**) CHF 400'000
2019-2021 High-dimensional analysis of liquid and solid biopsies from patients receiving immune checkpoint inhibitors (**URPP: Translational cancer research**) CHF 400'000
2018-2020 PRECISE: Identification of biomarkers and therapeutic targets in inflammatory disease immunotherapy by high-dimensional single cell analysis and cluster proteomics, (**SPHN**)

Supervision of junior researchers

19 Postdocs and 40 PhD Students. All former team members have moved on join other labs as postdoctoral fellows, or found leadership positions in academia and industry. Five former trainees now hold prominent academic faculty positions (3x tenure track, 2 full Professor).

Current teaching activities

Since 2016	Biomedicine (BME 235 and 236) Innate Immunity, Adaptive Immunity, Autoimmunity and Tolerance (Science faculty, UZH, 6h frontal lectures per year)
Since 2008	Basics in Immunology (Med.School., UZH, 6h frontal lectures per year)
Since 2010	Bio430 block course: Immunology (UZH, 3 ½ weeks per year)
Since 2014	Block-courses in flow cytometry & immunological techniques (UZH, 4 weeks per year)
Since 2019	Formosa Immunology Spring School, Taipei, Taiwan
Since 2014	Translational Immunology School, Potsdam, Germany
2014	RIKEN IMS-JSI international Summer School
since 2013	NIF (Network of Immunology Frontier) Winter School on Advanced Immunology (IFReC/SigN), Singapore
Since 2010	European Summer School of Immunology ENII & EFIS/EJI, Sardinia, IT
Since 2010	EFIS-European Journal of Immunology, Course in Clinical Immunology, Paris, FR
Since 2009	Lecturer and executive member of the European School on Neuro-Immunology
2009	Scandinavian school of Immunology, Copenhagen, DK

Current membership in panels, boards, etc

Since 2019	Member European Research Council (ERC-CoG) Panel LS7
2018-2020	Member: Singapore National Medical Research Council (NMRC) International Expert Panel (IEP)
2017	Chair of the Scientific Advisory Board of the Flamish Inst. Of Biotechnology, Inflammation Research (Ghent)
Since 2015	Chair of the Scientific Advisory Board of the Singapore Immunology Network
Since 2015	Member of the Scientific advisory board of the European School of Neuroimmunology (ESNI)
2013-2016	Scientific Advisory Board of the international Society of Neuroimmunology (ISNI)
Since 2013	Bing and Ott Preis Committee, SAMW
2009	Review panel member, AERES/ INSERM/ France

Active memberships in scientific societies, fellowships in renowned academies

ISNI (International Society of Neuroimmunology (2010-2014 executive board))

SGAI (Swiss Association for Allergology and Immunology)

International Cytokine & Interferon Society

Editorial Board: European Journal of Immunology, Immunology, Cellular Immunology (Deputy Editor)

Organisation of conferences

2019	Cell Press Neuroimmune Axis symposium, Los Angeles, CA, USA
Since 2005	Swiss Society Allergology and Immunology (Co-Organizer every 4 years)
Since 2005	Young Investigator Meeting (YIM) in Neuroimmunology (annual retreat, CH)

Major prizes, awards, fellowships

2020	ERC Advanced Grant
2019	Sobek Award for MS Research
2010	Prof. Max Cloëtta Award
2008	Biogen Dompè MS-Research Prize
2008	Robert Bing Prize
2004	Sobek Junior Research Award
2002	Harry Weaver Neuroscience Scholar of the National Multiple Sclerosis Society
1999	Fellowship Award National Multiple Sclerosis Society