

CURRICULUM VITAE – Andrea Ablasser

CONTACT/PERSONAL

Andrea Ablasser, MD
Full Professor
Swiss Federal Institute of Technology Lausanne (EPFL)
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Email: andrea.ablasser@epfl.ch
Date of birth: 13th July 1983
One child (born 2021)

EDUCATION

2010 Dissertation in Medicine, Ludwig-Maximilians-University, Munich (*Summa cum laude*)
2008 Approbation in Medicine
 National German Medical Exam (grade: 1.0; top 0.2 % of all students in GER)
2001-2008 Medical School, Ludwig-Maximilians-University, Munich, GER, with clinical rotations at
 Harvard Medical School, Boston, USA, and at the University of Oxford, UK

PROFESSIONAL EXPERIENCE

Since 2021 Full Professor, Swiss Federal Institute of Technology Lausanne, CH
2019-2021 Associate Professor, Swiss Federal Institute of Technology Lausanne, CH
2014-2019 Tenure Track Assistant Professor, Swiss Federal Institute of Technology Lausanne, CH
2008-2014 Post-doctoral research fellow, University of Bonn, GER
2008 Visiting research scientist, University of Massachusetts, Worcester, USA

DISTINCTIONS AND FELLOWSHIPS

2022 Elected member Leopoldina
2020/2022 Named "*Highly Cited Researcher*" by the Web of Science Group
2020 Prix Leenards for Translational Medical Research
2019 Elected EMBO Member
2018 ERC Starting Grant
2014 SNSF Starting Grant
2007 Fellow of the Munich-Harvard-Alliance and German Academic Exchange Service (DAAD)
2005 Fellow of the German National Merit Foundation (Studienstiftung des Deutschen Volkes)

AWARDS

2021 EMBO Gold Medal
2021 Pezcoller Foundation-EACR Translational Cancer Researcher Award
2021 Dr. Josef Steiner Cancer Award
2021 German Cancer Award
2021 Friedrich Miescher Award
2020 William B. Coley Award
2019 Sanofi-Institut Pasteur International Junior Award
2019 Prix Zonta
2018 National Latsis Prize
2018 ACTERIA Early Career Research Prize in Immunology
2018 Eppendorf Award for Young European Investigators
2014 GlaxoSmithKline Award for Basic Medical Research
2014 Paul Ehrlich und Ludwig Darmstaedter Prize for Young Researchers

2013	Max von Pettenkofer Prize
2013	Jürgen Wehland Prize
2010	Dissertation Prize of the University of Munich

INNOVATION & TECHNOLOGY TRANSFER

I am the **scientific co-founder of IFM Due**, a subsidiary of IFM Therapeutics, Boston, US, which develops drugs targeting the cGAS-STING pathway. I also serve as a member to the **scientific advisory board** of IFM Therapeutics.

FIELD OF RESEARCH

The innate immune system is critical for maintaining health but it also contributes to a range of human diseases. My research focuses on understanding how cells sense DNA as a danger signal and how this translates into the regulation of innate immunity. With my scientific efforts I aim at elucidating fundamental principles of our immune system and at inspiring new therapeutic approaches for the treatment of inflammatory conditions and cancer.

Ablasser A. and Chen Z., *Science* 2019 Mar 8;363(6431)

MAIN SCIENTIFIC ACHIEVEMENTS (short list)

- Clathrin-associated AP-1 controls termination of STING signalling. Liu,..., **Ablasser.**
Nature 2022 Oct;610(7933):761-767.
- *The cGAS-STING pathway drives type I IFN immunopathology in COVID-19.* DiDomizio,..., **Ablasser.**
Nature 2022 Mar;603(7899):145-151.
- *Structural mechanism of cGAS inhibition by nucleosomes.* Pathare,..., **Ablasser.**
Nature 2020 Nov;587(7835):668-672.
- *BAF restricts cGAS on nuclear DNA to prevent innate immune activation.* Guey,..., **Ablasser.**
Science 2020 Aug 14;369(6505):823-828.
- *Targeting STING with small-molecule covalent inhibitors.* Haag,..., **Ablasser.**
Nature 2018 Jul;559(7713):269-273.
- *Innate immune sensing of cytosolic chromatin fragments through cGAS promotes senescence.*
Glück,..., **Ablasser.**
Nature Cell Biology 2017 Sep;19(9):1061-1070.
- *Signaling strength determines proapoptotic functions of STING.* Gulen,..., **Ablasser.**
Nature Communications 2017 Sep 5;8(1):427.
- *The ESX-1 secretion system of Mycobacterium tuberculosis differentially regulates cGAS- and inflammasome-dependent intracellular immune responses.* Wassermann,..., **Ablasser.**
Cell Host&Microbe 2015 Jun 10;17(6):799-810.
- *cGAS produces a 2'-5'-linked cyclic dinucleotide second messenger that activates STING.*
Ablasser*,..., Hornung*; *co-corresponding author
Nature 2013 Jun 20;498(7454):380-4.
- *Cell intrinsic immunity spreads to bystander cells via the intercellular transfer of cGAMP.* **Ablasser**,..., Hornung.
Nature 2013 Nov 28;503(7477):530-4.

RESEARCH FUNDING

Over the past 8 years I have managed more than 25 research grants that were awarded by different national and international funding agencies as well as biopharmaceutical companies.