

# CURRICULUM VITAE - Andrea Ablasser

## CONTACT/PERSONAL

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Andrea Ablasser, MD  
Associate Professor  
École Polytechnique Fédérale de Lausanne  
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## EDUCATION

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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

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Since 2019 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

## HONORS AND AWARDS

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2021 Dr. Josef Steiner Cancer Award (*not yet officially announced*)  
2021 German Cancer Award  
2021 Friedrich Miescher Award  
2020 Named "*Highly Cited Researcher*" by the Web of Science Group  
2020 William B. Coley Award  
2020 Prix Leenards for Translational Medical Research  
2019 Sanofi-Institut Pasteur International Junior Award  
2019 Prix Zonta  
2019 Elected EMBO Member  
2018 National Latsis Prize  
2018 ACTERIA Early Career Research Prize in Immunology  
2018 Eppendorf Award for Young European Investigators  
2018 ERC Starting Grant  
2014 SNSF Starting Grant  
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

## FELLOWSHIPS

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2007 Fellow of the Munich-Harvard-Alliance  
2007 Fellow of the German Academic Exchange Service (DAAD)  
2006 Fellow of the Graduate School 1202, German Research Foundation (DFG)  
2005 Fellow of the German National Merit Foundation (Studienstiftung des Deutschen Volkes)

## INNOVATION & TECHNOLOGY TRANSFER

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I am the **scientific co-founder of IFM Due**, a subsidiary of IFM Therapeutics, Boston, US, which aims to develop drugs targeting the cGAS-STING pathway. I also serve as a member to the **scientific advisory board** of IFM Therapeutics. The realization of the drug development program of IFM Due is pursued in collaboration with Novartis, an agreement that has been valued to up to \$840 Mio.

## FIELD OF RESEARCH

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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 recognize DNA as a danger signal and how the sensing of DNA, in turn, initiates powerful innate immune responses. With my scientific efforts I aim at elucidating fundamental insights into the strategies of innate immunity and at inspiring new therapeutic opportunities for the treatment of inflammatory conditions and cancer in humans.

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

## MAIN SCIENTIFIC ACHIEVEMENTS (short list)

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- *Structural mechanism of cGAS inhibition by nucleosomes*. Pathare, Decout,..., Thomä, **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.
- *RIG-I-dependent sensing of poly(dA:dT) through the induction of an RNA polymerase III-transcribed RNA intermediate*. **Ablasser**,..., Hornung. *Nature Immunology* 2009 Oct;10(10):1065-72.

## RESEARCH FUNDING

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Over the past 6 years I have managed more than 20 research grants that were awarded by different national and international funding agencies as well as biopharmaceutical companies.