

JONATHAN KIEFER

PERSONAL INFORMATION

Born in Munich, Germany · 13 March 1989

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phone +41 78 682 47 59

address Sihlfeldstrasse 55, 8003 Zurich

WORK EXPERIENCE

2020-2021 Pioneer Fellow, ETH — Zurich

Phire Therapeutics: [Precision Hemato-Immunology REplacement](#).

Reference: Dario NERI · +41 44 633 74 01 · dario.neri@pharma.ethz.ch

2019-2020 PostDoc, USZ — Zurich

Translational Research in Acute Myeloid Leukemia and Regenerative Medicine.

Reference: Markus G. MANZ · +41 44 255 53 96 · markus.manz@usz.ch

2015-2019 PhD Student, ETH — Zurich

Projects on Antibody Engineering, Phage Display, Bispecific Antibodies, CAR T-cells and hematological malignancies. Supervised three Master Theses.

Reference: Dario NERI · +41 44 633 74 01 · dario.neri@pharma.ethz.ch

2014 Master Thesis, MIT — Cambridge, USA

Protein Engineering, Yeast Display, Directed Evolution of Proteins.

Reference: Dane WITTRUP · +1 617-253-4578 · wittrup@mit.edu

2010-2012 Research Assistant, NCT — Heidelberg

Antibody Engineering, Phage Display, Molecular Biology.

Reference: Jürgen KRAUSS · +49 6221 565922 · juergen.krauss@nct-heidelberg.de

EDUCATION

2012-2014 ETH — Zurich

GPA: 5.6 (scale 6 to 1) · Minor: Immunology & Microbiology

Thesis: A hyperstable minimalist protein for molecular recognition.

2009-2012 University of Heidelberg — Heidelberg

GPA: 1.9 (scale 1 to 6) · Minor: Drug Research

Thesis: Generation of fully human anti-EGFR antibody fragments using phage-display.

2008 Albert-Einstein-Gymnasium — Munich

GPA: 1.7 (scale 1 to 6) · Higher level in Math & Biology

Thesis: Prenatal Diagnostics.

AWARDS, GRANTS, PRIZES

2020 ETH Medal

Outstanding doctoral theses are honoured with the Silver Medal of ETH Zurich and a financial sum.

*Eidgenössische
Technische
Hochschule Zürich*

*University
Hospital Zürich*

*Eidgenössische
Technische
Hochschule Zürich*

*Massachusetts
Institute of
Technology*

*National Center
for Tumor Diseases*

*Master of Science
Biology*

*Bachelor of Science
Molecular
Biotechnology*

Abitur

*Eidgenössische
Technische
Hochschule Zürich*

2019 Pioneer Fellowship

The competitive [Pioneer Fellowship](#) is awarded to candidates who want to become entrepreneurs based on their own research carried out during their master or doctoral thesis at ETH Zürich.

2019 Young Scientist Award

Each year IPW at ETH Zürich awards two young scientists the Young Scientists Award for outstanding research.

PUBLICATIONS

2020 [Anti-human CD117 CAR T-cells efficiently eliminate healthy and malignant CD117-expressing hematopoietic cells](#)

Leukemia

Authors: Renier MYBURGH*, Jonathan D. KIEFER*, Norman F. RUSSKAMP*, Chiara F. MAGNANI, Nicols NUEZ, Alexander SIMONIS, Surema PFISTER, C. Matthias WILK, Donal MCHUGH, Juliane FRIEMEL, Antonia M. MÜLLER, Burkhard BECHER, Christian MÜNZ, Maries VAN DEN BROEK, Dario NERI, Markus G. MANZ

2020 [Quantitative and Qualitative Analysis of Humoral Immunity Reveals Continued and Personalized Evolution in Chronic Viral Infection](#)

Cell Reports

Authors: Nike J. KRÄUTLER, Alexander YERMANOS, Allesandro PEDRIOLI, Suzanne PM WELTEN, Dominique LORG, Ute GRECZMIEL, Ilka BARTSCH, Jörg SCHEUERMANN, Jonathan D. KIEFER, Klaus EYER, Ulrike MENZEL, Victor GREIFF, Dario NERI, Tanja STADLER, Sai T REDDY, Annette OXENIUS

2019 [Targeted delivery of TNF potentiates the antibody-dependent cell-mediated cytotoxicity of an anti-melanoma immunoglobulin](#)

*Journal of
Investigative
Dermatology*

Authors: Patrizia MURER, Jonathan D. KIEFER, Louis PLÜSS, Mattia MATASCI, Sandra L. BLÜMICH, Marco STRINGHINI, Dario NERI

2017 [Structures of designed armadillo repeat proteins binding to peptides fused to globular domains](#)

Protein Science

Authors: Simon HANSEN, Jonathan D. KIEFER, Chaithanya MADHURANTAKAM, Peer RE MITTL, Andreas PLÜCKTHUN

2017 [An engineered protein antagonist of K-Ras/B-Raf interaction](#)

Scientific reports

Authors: Monique J. KAUCHE, Michael W. TRAXLMAYR, Jillian A. PARKER, Jonathan D. KIEFER, Ryan KNIHTILA, John MCGEE, Greg VERDINE, Carla MATTOS, K. Dane WITTRUP

2016 [Strong enrichment of aromatic residues in binding sites from a charge-neutralized hyperthermostable Sso7d scaffold library](#)

*Journal of
Biological
Chemistry*

Authors: Michael W. TRAXLMAYR, Jonathan D. KIEFER, Raja R. SRINIVAS, Elisabeth LOBNER, Alison W. TISDALE, Naveen K. MEHTA, Nicole J. YANG, Bruce TIDOR, K. Dane WITTRUP

*Journal of
Molecular Biology*

2016 [Design Principles for SuCESsFul Biosensors:
Specific Fluorophore/Analyte Binding and Minimization of
Fluorophore/Scaffold Interactions](#)

Authors: Seymour DE PICCIOTTO, Paige M. DICKSON, Michael W. TRAXLMAYR,
Bryan S. MARQUES, Elke SOCHER, Sixing ZHAO, Stephanie CHEUNG,
Jonathan D. KIEFER, A. Joshua WAND, Linda G. GRIFFITH, Barbara IMPERIALI,
K. Dane WITTRUP

*Immunological
Reviews*

2016 [Immunocytokines and bispecific antibodies: two
complementary strategies for the selective activation of immune
cells at the tumor site](#)

Authors: Jonathan D. KIEFER, Dario NERI

*Journal of
Molecular Biology*

2014 [A Fibrin-Specific Monoclonal Antibody from a
Designed Phage Display Library Inhibits Clot Formation and
Localizes to Tumors In Vivo](#)

Authors: Alessia PUTELLI, Jonathan D. KIEFER, Matthias ZADORY, Mattia
MATASCI, Dario NERI

mAbs

2014 [Generation of “LYmph Node Derived Antibody
Libraries” \(LYNDAL\) for selecting fully human antibody
fragments with therapeutic potential](#)

Authors: Philipp DIEBOLDER, Armin KELLER, Stephanie HAASE, Anne
SCHLEGELMILCH, Jonathan D. KIEFER, Tamana KARIMI, Tobias WEBER, Gerhard
MOLDENHAUER, Roland KEHM, Anna M. EIS-HÜBINGER, Dirk JÄGER, Philippe A.
FEDERSPIL, Christel HEROLD-MENDE, Gerhard DYCKHOFF, Roland E.
KONTERMANN, Michaela A.E. ARNDT, Jürgen KRAUSS

May 22, 2020