

ROBIN GRAF, Dr. rer. nat.

Since 11/ 2021 *Postdoctoral researcher* Muscle Research Unit, Charité
Universitätsmedizin Berlin and the Max Delbrück Center, Berlin,
Germany
Mentor: Prof. Dr. Simone Spuler

Experience and Training

2018 – 2021 Postdoctoral researcher
Max Delbrück Center for Molecular Medicine
Laboratory of Prof. Dr. Klaus Rajewsky

2010 – 2018 PhD in Immunology and Systems Biology
Max Delbrück Center for Molecular Medicine & Humboldt University
Visiting student (2011), Harvard Medical School, Boston, USA
Laboratories of Prof. Dr. Nikolaus Rajewsky and Prof. Dr. Klaus Rajewsky

2009 – 2010 Master thesis, EPFL mobility program
German Cancer Research Center (DKFZ), Heidelberg, Germany
Laboratory of Prof. Dr. Andreas Trumpp

2008 – 2010 *Master of science (ing. sc. technol. viv. dipl. EPF) in Life Sciences and
Technologies, Molecular Medicine and Oncology
Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland*

2005 – 2008 Bachelor in Life Sciences, Bioengineering and Biotechnology
Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland

Grants & Awards

2019 Otto-Westphal prize for best PhD thesis in Immunology, German Society of Immunology (DGfI), Germany

2018 Grade 'summa cum laude' for PhD thesis, Humboldt University, Berlin, Germany

2010 Max Delbrück Center International PhD Program PhD fellowship

2010 Award for „Best master in Life Sciences“ by Swiss Federal Institute of Technology, Lausanne, Switzerland

Papers

- (1) Tran NT*, Danner E*, Li X*, **Graf R***, Lebedin M, de la Rosa K, Kühn R, Rajewsky K, Chu VT. Precise CRISPR-Cas-mediated gene repair with minimal off-target and unintended on-target mutations in human hematopoietic stem cells. *Sci Adv.* 2022 Jun 3;8(22):eabm9106.
- (2) **Graf R***, Seagal J*, Otipoby KL*, Lam KP, Ayoub S, Zhang B, Sander S, Chu VT, Rajewsky K. BCR-dependent lineage plasticity in mature B cells. *Science.* 2019 Feb 15;363(6428):748-753.
- (3) **Graf R***, Li X*, Chu VT, Rajewsky K. sgRNA sequence motifs blocking efficient CRISPR/Cas9-mediated gene editing. *Cell Rep.* 2019 Sep 24;28(13):3510-3522.e5.
- (4) Chu VT*, **Graf R***, Wirtz T, Weber T, Favret J, Li X, Petsch K, Tran NT, Sieweke MH, Berek C, Kühn R, Rajewsky K. Efficient CRISPR-mediated mutagenesis in primary immune cells using CrispRGold and a C57BL/6 Cas9 transgenic mouse line. *Proc Natl Acad Sci U S A.* 2016 Nov 1;113(44):12514-12519.
- (5) Chu VT*, Weber T*, **Graf R***, Sommermann T, Petsch K, Sack U, Volchkov P, Rajewsky K, Kühn R. Efficient generation of Rosa26 knock-in mice using CRISPR/Cas9 in C57BL/6 zygotes. *BMC Biotechnol.* 2016 Jan 16;16:4.
- (6) **Graf R***, Munschauer M*, Mastrobuoni G, Mayr F, Heinemann U, Kempa S, Rajewsky N, Landthaler M. Identification of LIN28B-bound mRNAs reveals features of target recognition and regulation. *RNA Biol.* 2013 Jul;10(7):1146-5.

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