

## Biographical sketch Andreas Krueger

### **1. General information**

#### ***Personal data***

Name Andreas Krueger, Prof. Dr. rer. nat.  
Date/Place of birth 11/20/1973 in Alfeld(Leine)  
Gender male

#### ***Contact data***

Address Institute for Immunology  
Faculty of Biology and Chemistry  
Justus Liebig University Gießen  
Schubertstr. 81  
35392 Gießen, Germany  
Phone +49 641 99-34250  
Email andreas.krueger@immu.bio.uni-giessen.de

***Current Position*** Professor (W3), permanent position

### **2. Education**

1994-1999 Diploma in Biochemistry, University of Hannover, Germany  
1995-2003 Studies in Philosophy and German Literature, University of Hagen, Germany  
1999-2002 PhD (Dr. rer. nat.) in Biochemistry and Immunology, German Cancer Research Center, Heidelberg, Germany (Supervisor: Peter H. Krammer)  
2011 Habilitation in Immunology, Hannover Medical School

### **3. Research Experience**

2002-2003 Postdoctoral Fellow, Division of Immunogenetics, German Cancer Research Center, Heidelberg, Germany (Mentor: Peter H. Krammer)  
2003-2007 Research Fellow, Dept. of Pathology, Harvard Medical School, and Dept. of Cancer Immunology & AIDS, Dana-Farber Cancer Institute, Boston, MA, USA (Mentor: Harald von Boehmer)  
2007-2013 Junior Group Leader, Cluster of Excellence "REBIRTH" and Institute for Immunology, Hannover Medical School, Germany  
2008-2013 Research Group Leader, Emmy-Noether Program (German Research Foundation, DFG), Institute for Immunology and Cluster of Excellence "REBIRTH", Hannover Medical School, Germany  
2013-2014 Group Leader, Regenerative Immunology, Institute for Immunology and Cluster of Excellence "REBIRTH", Hannover Medical School, Germany

2014-2015	Professor (W2), Regenerative Immunology, Institute for Immunology and Cluster of Excellence "REBIRTH", Hannover Medical School, Germany
2015-2022	Professor (W2), Molecular Immunology, Institute of Molecular Medicine, Goethe-University Frankfurt am Main, Germany
2022	Professor (W3), Molecular Immunology, Faculty of Biology and Chemistry, Justus Liebig University Gießen, Germany

#### **4. Honors and Awards**

1995-1999	Scholarship of the Ev. Studienwerk Villigst (Scholarship organization of the Protestant Churches in Germany)
2004-2006	Lymphoma Research Foundation Fellowship
2008-2013	Emmy-Noether stipend of the DFG
2010	„Excellence Award“, Cluster of Excellence "REBIRTH"
2018	Nomination, best thesis supervisor, GRADE, Goethe University

#### **5. Publications**

##### **a) Peer-reviewed publications and books**

1. Coppin E, Sundarasetty BS, Rahmig S, Blume, Verheyden NA, Bahlmann F, Ravens S, Schubert U, Schmid J, Ludwig S, Geissler K, Guntinas-Lichius O, von Kaisenberg C, Groten T, Platz A, Naumann R, Ludwig B, Prinz I, Waskow C\*, **Krueger A\*** (2021). Enhanced differentiation of functional human T cells in NSGW41 mice with tissue-specific expression of human interleukin-7. *Leukemia* 35:3561-67. doi: 10.1038/s41375-021-01259-5. \* Equal contribution
2. Łyszkiewicz M, Winter SJ, Witzlau K, Föhse L, Brownlie R, Puchałka J, Verheyden NA, Kunze-Schumacher H, Imelmann E, Blume J, Raha S, Sekiya T, Yoshimura A, Frueh JT, Ullrich E, Huehn J, Weiss S, Gutierrez MG, Prinz I, Zamoyska R, Zięta N, **Krueger A** (2019). miR-181a/b-1 controls thymic selection of Treg cells and tunes their suppressive capacity. *PLoS Biol* 17(3):e2006716. doi: 10.1371/journal.pbio.2006716.
3. **Krueger A**, Zięta N, Łyszkiewicz M (2017). T cell development by the numbers. *Trends Immunol* 38:128-139. doi: 10.1016/j.it.2016.10.007.
4. Zięta N, Łyszkiewicz M, Puchałka J, Witzlau K, Förster R, Pabst O, Prinz I, **Krueger A** (2015). Multicongenic fate mapping quantification of dynamics of thymus colonization. *J Exp Med* 212:1589-1601. doi: 10.1084/jem.20142143.
5. Łyszkiewicz M, Zięta N, Föhse L, Puchałka J, Diestelhorst J, Witzlau J, Prinz I, Schambach A, **Krueger A** (2015). Limited niche availability suppresses murine intrathymic dendritic-cell development from non-committed progenitors. *Blood* 125(3):457-64. doi: 10.1182/blood-2014-07-592667.
6. Zięta N, Łyszkiewicz M, Witzlau K, Naumann R, Hurwitz R, Langemeier J, Bohne J, Sandrock I, Ballmaier M, Weiss S, Prinz I\*, and **Krueger A\*** (2013). Critical role for miR-181a/b-1 in agonist selection of invariant natural killer T cells. *Proc. Natl. Acad. Sci. USA*, 110:7407-7412. doi: 10.1073/pnas.1221984110. \* shared senior authorship.

7. Saran N, Łyszkiewicz M, Pommerencke J, Witzlau K, Vakilzadeh R, Ballmaier M, von Boehmer H, **Krueger A** (2010). Multiple extra-thymic precursors contribute to T cell development with different kinetics. *Blood* 115: 1137-44. doi: 10.1182/blood-2009-07-230821.
8. **Krueger A**, von Boehmer H (2007). Identification of a T lineage-committed progenitor in adult blood. *Immunity* 26: 105-16. doi: 10.1016/j.immuni.2006.12.004.
9. **Krueger A**, Garbe AI, von Boehmer H (2006). Phenotypic plasticity of T cell progenitors upon exposure to Notch ligands. *J Exp Med* 203: 1977-84. doi: 10.1084/jem.20060731.
10. Eichhorst ST\*, **Krueger A**\*, Mürköster S, Fas SC, Golks A, Gruetzner U, Schubert L, Opelz C, Bilzer M, Gerbes AL, Krammer PH (2004). Suramin inhibits death receptor-induced apoptosis in vitro and fulminant apoptotic liver damage in mice. *Nat Med* 10: 602-9. doi: 10.1038/nm1049. \* Equal contribution.

### **Third party funding (2017-2022)**

<b>Funding institution</b>	<b>Project title</b>	<b>Funding period</b>
DFG	KR2320/7-1 Selektion von MAIT-Zellen im Thymus.	2020-2022
DFG	KR2320/6-1 Zellzyklusdynamik in der frühen T-Zell-Entwicklung und ihre Rolle in der Gewebemöostase.	2018-2022
DFG	SFB902-B15 Molekulare Mechanismen der T-Zellregeneration nach Stammzelltransplantation durch miRNAs	2016-2023
DFG	KR2320/5-1 miRNA-vermittelte Regulation der Bildung und Funktion regulatorischer T-Zellen – die Bedeutung von miR-181.	2015-2018