Dr. Jens Krüger

1) General information

Date of birth**:**	19.06.1976
Gender:	male
Work address:	Eberhard Karls-University Tübingen High Performance and Cloud Computing Group Zentrum für Datenverarbeitung Wächterstraße 76 72074 Tübingen
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E-mail address:	jens.krueger@uni-tuebingen.de
Current position:	Head of the High Performance and Cloud Computing Group, Zentrum für Datenverarbeitung, Eberhard-Karls University Tübingen, Germany

2) University training and degree

1996 – 2002	Diploma in chemistry, Department Chemie, Universität Paderborn, Deutschland, Thesis in the group of Prof. Dr. G. Fels, Topic: Untersuchung der allosterischen Bindungsstelle des Galanthamins am nikotinischen Acetylcholinrezeptor
1999 – 2000	Erasmus Student at the École Nationale Supérieure de Chimie de Montpellier, France, including a six-month internship in the group of Prof. Dr. H. J. Cristau, Département Chimie Organique

3) Advanced academic qualifications

2002 – 2006	PhD thesis in the group of Prof. Dr. G. Fels, Department Chemie, Universität Paderborn, Germany Topic: Struktur und Funktion Acetylcholin bindender Proteine

4) Postgraduate professional career

2017 –	Head of the High Performance and Cloud Computing Group, Zentrum für Datenverarbeitung, Eberhard-Karls University Tübingen, Germany
2011 – 2016	Habilitand in the group of Prof. Dr. O. Kohlbacher, Eberhard-Karls University Tübingen, Germany
2009 – 2011	PostDoc in the group of Prof. Dr. G. Fels, Universität Paderborn, Germany
2007 – 2009	PostDoc in the group of Prof. Dr. W. B. Fischer, National Yang-Ming University, Taipei, Taiwan (R.O.C.)
2002 – 2006	Scientific coworker in the group of Prof. Dr. G. Fels, Universität Paderborn, Deutschland

5) Other

2023 –	Co-lead of the infrastructural project of TRR356 PlantMicrobe
2020 –	Co-Spokesperson for the NFDI project DataPLANT; coordinator for Task Area II (Infrastructure, Software and Services)
2020 –	Participant for the NFDI GHGA; infrastructure and gateway
2019 –	Project coordination and work package lead for the Science Data Center BioDATEN

2017 –	Speaker of the state-wide bwHPC Competence Center for Bioinformatics
2016 –	Member of the scientific advisory board of the Journal of Integrative Bioinformatics
2014	Yasara Prize for the best poster at the Faraday Discussion 169
2010	CBSB10 Outstanding Young Researcher Award
2009 – 2010	Alexander von Humboldt-Stiftung (AvH) research stipend
2008 – 2009	Alexander von Humboldt-Stiftung (AvH) / National Science Council Taiwan (NSC) research stipend
2005	Erasmus Teaching Mobility Grant, lecture series at the Kimya Fakültesi, Mersin Üniversitesi, Türkei, 2005
2004	Stipend of the International Isotope Society, Central European Divison (IIS-CED)
1999 – 2000	Erasmus stipend, Département Chimie Organique, École Nationale Supérieure de Chimie de Montpellier, France

6) Publications

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1. Chao Y.K., Schludi V., Chen C.C., Butz E., Nguyen O.N.P., Müller M., **Krüger J.**, Kammerbauer C., Ben-Johny M., Vollmar A.M., Berking C., Biel M., Wahl-Schott C.A., Grimm C. (2017). TPC2 polymorphisms associated with a hair pigmentation phenotype in humans result in gain of channel function by independent mechanisms. **Proc Natl Acad Sci** USA. 114:E8595-E8602. doi: 10.1073/pnas.1705739114.
2. Zimmermann L., Grunzke R., **Krüger J.** (2017). Maintaining a Science Gateway – Lessons Learned from MoSGrid, Proceedings of the 50th Hawaii International Conference on System Sciences (HICSS50), URI: http://hdl.handle.net/10125/41918.
3. de Lange O., Wolf C., Thiel P., **Krüger J.**, Kleusch C., Kohlbacher O., Lahaye T. (2015). DNA-binding proteins from marine bacteria expand the known sequence diversity of TALE-like repeats. **Nucleic Acids Research**. doi: 10.1093/nar/gkv1053.
4. Avbelj M., Wolz O.O., Fekonja O., Benčina M., Repič M., Mavri J., **Krüger J.**, Schärfe C., Delmiro Garcia M., Panter G., Kohlbacher O., Weber A.N.R., Jerala R. (2014). Activation of lymphoma-associated MyD88 mutations via allostery-induced TIR domain oligomerization. **Blood**. 124:3896-3904. doi: 10.1182/blood-2014-05-573188.
5. **Krüger J.**, Grunzke R., Gesing S., Breuers S., Brinkmann A., de la Garza L., Kohlbacher O., Kruse M., Nagel W.E., Packschies L., Müller-Pfefferkorn R., Schäfer P., Schärfe C., Steinke T., Schlemmer T., Warzecha K., Zink A., Herres-Pawlis S. (2014). The MoSGrid Science Gateway – A Complete Solution for Molecular Simulations. **J Chem Theory Comput.**, 10:2232–2245. doi: 10.1021/ct500159h.
6. Lukat G., **Krüger J.**, Sommer B. (2013) APL@Voro: A Voronoi-Based Membrane Analysis Tool for GROMACS Trajectories. **J Chem Inf Model.**, 53:2908–2925. doi: 10.1021/ci400172g.
7. Zong X.G., Krause S., Chen C.C., **Krüger J.**, Gruner C., Cao-Ehlker X.C., Fenske S., Wahl-Schott C., Biel, M. (2012) Regulation of HCN channel activity by cyclic cytidine 3', 5'- monophosphate (cCMP), **J Biol Chem.**, 287:26506-26512.
8. Tusch M., **Krüger J.**, Fels G. (2011). Structural Stability of V-Amylose Helices in Water-DMSO Mixtures Analysed by Molecular Dynamics, **J Chem Theory Comput.** 7:2919-2928. doi: 10.1021/ct2005159.
9. Chen C.C., **Krüger J.**, Sramala I., Henklein P., Chen Y.M.A., Fischer W.B. (2010). ORF8a of Human SARS-CoV forms an ion channel: Experiments and molecular dynamics simulations. **Biochim Biophys Acta.** 1808:572-579. doi: 10.1016/j.bbamem.2010.08.004.
10. **Krüger J.**, Fischer W.B. (2008) Exploring the Conformational Space of Vpu from HIV-1: a versatile adaptable protein. **J Comput Chem.** 28:2416-2424.