

Curriculum Vitae Dr. Jörg Renkawitz

Personal Data

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| Name | Jörg Renkawitz |
| Date, Place of Birth | February 15, 1983, Heidelberg, Germany |
| Marital status | Married, two children (born 2011 and 2014) |
| E-Mail | Joerg.Renkawitz@med.uni-muenchen.de |
| Homepage | www.renkawitz-lab.com |

Research & Scientific Education

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| 10/2018 - now | Endowed 'Peter Hans Hofschneider Professor for Molecular Medicine (Foundation Experimental Biomedicine), Biomedical Center (BMC), LMU Munich |
| 03/2014 - 09/2018 | Postdoctoral research ' <i>Molecular principles of cell migration</i> ', Group Prof. Michael Sixt, Institute of Science and Technology Austria |
| 10/2013 - 02/2014 | Short continued postdoctoral research on PhD research, Group Prof. Stefan Jentsch, MPI of Biochemistry |
| 12/2008 - 09/2013 | Doctorate Degree (Dr. rer. nat; summa cum laude) ' <i>Homology search during DNA double-strand repair</i> ', Group Prof. Stefan Jentsch, MPI of Biochemistry |
| 10/2006 - 10/2008 | Master of Science in Biochemistry with minor subjects Cell Biology and Virology, Ludwig-Maximilians-University Munich. Grade 1.09 <ul style="list-style-type: none"> • Master thesis research '<i>Dynamic characterization of the cytoskeleton during dendritic cell migration</i>', Group Prof. Michael Sixt, MPI of Biochemistry, Grade 1.0 • Research internships Groups Prof. Sabine Werner (ETH Zurich), Dr. Zsolt Ruzsics (Gene Center Munich), Dr. Michael Kashlev (NIH-US National Cancer Institute) |
| 10/2003 - 09/2006 | Bachelor of Science in Biochemistry, Technical University Munich, Grade 1.5 <ul style="list-style-type: none"> • Bachelor thesis research '<i>Methods to identify new substrates of protein tyrosine phosphatase 1B</i>', Group Dr. Henrik Daub, MPI of Biochemistry, Grade 1.0 • Research internship Group Prof. Patrick Cramer, Gene Center |

Research Funding and Awards

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| 2018 | Endowed 'Peter Hans Hofschneider Professor for Molecular Medicine' (Foundation 'Experimentelle Biomedizin') |
| 03/2015 - 02/2017 | EMBO long-term fellowship |
| 03/2014 - 02/2015 | ISTFELLOW, Marie-Curie COFUND |
| 2013 | MPIB Junior Research Award 2013 |
| 2013 | PhD 'summa cum laude' |
| 08/2009-11/2012 | PhD fellowship of the Boehringer-Ingelheim-Fonds (BIF) |
| 12/2008-09/2013 | International Max Planck Research School (IMPRS) |

Reviewing, Conferences & Talks

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| Seminars/Invited Talks | <p>Biomedicum Helsinki Seminar Series, Helsinki 2018. EMBO Workshop Nuclear Mechano-Genomics, Singapur 2018. 2nd International Conference Leukocyte Trafficking, Munich 2018. EMBO Symposium Microtubules, Heidelberg 2018. Foundation Experimental Biomedicine, Zurich 2018. EMBL Heidelberg, 2017. Gene Center Munich 2016. EMBO Symposium Microtubules, Heidelberg 2016. University of Turku, Faculty of Medicine, Finland 2014. Chromatin Day LMU, Munich 2012.</p> |
| Intern. Conferences | <p>EMBO Workshop, Singapur 2018; 2nd International Conference Leukocyte Trafficking, Munich 2018; Gordon Research Conference, USA 2017; EMBL Symposium, Heidelberg 2016; DGZ Meeting, Munich 2016; Actin Dynamics, Regensburg 2015; EMBL Workshop, Stockholm, Sweden 2014; Chromatin Day Munich 2012; EMBO Meeting, Spain 2012; Cold Spring Harbor Meeting, USA 2010; Abcam Meeting, Antigua 2010; DFG Meeting, Berlin 2009</p> |

Leadership, Pedagogic Education & Teaching

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| Leadership (since 2010) | Supervision of two technicians (during PostDoc: since January 2017; during PhD: half-day for 2 years) |
| Teaching (since 2011) | Supervision of 2 PhD students (both for 2 years), 1 master student (7 months), 1 bachelor student (co-supervision, 4 months), and 3 undergraduate students (4, 8, and 10 weeks). |
| 2017 | Introductory Seminar to new PhD students of IST Austria |
| Spring 2016 | PhD applicant reviewer (pre-screening of 48 PhD applications) for the IST Austria PhD program |
| Spring 2015 | Fellowship reviewer as a committee member of internal IST Austria PhD fellowships |
| 2009 - 2011 | Organization committee member of the Distinguished Visitor Lecture Series of the MPI of Biochemistry (Speaker selection, invitation, coordination) |
| 2006-2008 | Actively contributing member of the „Biotechnologische Studenteninitiative (btS)“, a German nation-wide organization to build an interface between academia and industry (e.g. organization of the company contact fair ‘ScieCon München 2007’) |
| Pedagogic Education | Professional training workshops (1-4 days) during PostDoc, PhD, and university studies: ‘Research Leadership – Lab Management’, ‘Teaching Didactics’, ‘Interpersonal Skills’, ‘Communication Training’, ‘Intercultural communication’, ‘Career Mentoring and Management’, ‘Scientific presentation’, ‘Scientific writing’, ‘Project management’. |

Publications (ORCID ID 0000-0003-2856-3369)

Renkawitz J, Reversat A, Leithner A, Merrin J, Sixt M. Micro-engineered 'Pillar Forests' to Study Cell Migration in Complex but Controlled 3D Environments. *Methods in Cell Biology*, 147:79-91.

Frick C, Dettinger P, **Renkawitz J**, Jauch A, Berger CT, Recher M, Schroeder T, Mehling M. (2018) Nano-scale microfluidics to study 3D chemotaxis at the single cell level. *PLoS One*.13:e0198330.

Hons M, Kopf A, Hauschild R, Leithner A, Gärtner F, Abe J, **Renkawitz J**, Stein JV, Sixt M. (2018) Chemokines and integrins independently tune actin flow and substrate friction during intranodal migration of T cells. *Nature Immunology* 19:606-616.

Leithner A, **Renkawitz J**, de Vries I, Hauschild R, Haecker H, Sixt M. (2018) Fast and efficient genetic engineering of hematopoietic precursor cells for the study of dendritic cell migration. *Eur. Journal of Immunology* 48:1074-1077.

Lademann CA, **Renkawitz J**, Pfander B, Jentsch S. (2017) INO80-C removes H2A.Z to promote presynaptic filament formation during homologous recombination. *Cell Reports*. 9(7):1294-1303.

Renkawitz J, Lademann CA, Kalocsay M, Jentsch S. (2013) Monitoring homology search during DNA double-strand break repair in vivo. *Molecular Cell*. 50:261-72

Lämmermann T, **Renkawitz J**, Wu X, Hirsch K, Brakebusch C, Sixt M. (2009) Cdc42-dependent leading edge coordination is essential for interstitial dendritic cell migration. *Blood*. 113:5703-10

Renkawitz J, Schumann K, Weber M, Lämmermann T, Pflücke H, Piel M, Polleux J, Spatz JP, Sixt M. (2009) Adaptive force transmission in amoeboid cell migration. *Nat Cell Biol*. 11:1438-43

Mertins P, Eberl HC, **Renkawitz J**, Olsen JV, Tremblay ML, Mann M, Ullrich A, Daub H. (2008) Investigation of protein-tyrosine phosphatase 1B function by quantitative proteomics. *Mol Cell Proteomics*. 7(9), 1763-77.

Geiger SR, Kuhn CD, Leidig C, **Renkawitz J**, Cramer P. (2008) Crystallization of RNA polymerase I subcomplex A14/A43 by iterative prediction, probing and removal of flexible regions. *Acta Crystallogr Sect F Struct Biol Cryst Commun*. 1;64(Pt 5), 413-8.

Reviews

Renkawitz J*, Lademann CA*, Jentsch S. (2014) Mechanisms and principles of homology search during recombination. *Nat Rev Mol Cell Biol*. 15:369-83 (Review). *equal contribution

Renkawitz J, Sixt M. (2010) Mechanisms of force generation and force transmission during interstitial leukocyte migration. *EMBO Rep*. 11:744-50 (Review).

Editorials

Renkawitz J, Sixt M. (2016) A Radical Break: Restraining Neutrophil Migration. *Developmental Cell*. 38:448-50 (Editorial/Preview)

Renkawitz J, Sixt M. (2016) Formin' a nuclear protection. *Cell*. 1;167(6):1448-1449. (Editorial/Preview)

Renkawitz J, Lademann CA, Jentsch S. (2013) γ H2AX spreading linked to homology search. *Cell Cycle*. 15;12(16), 2526-7. (Cell Cycle Feature)

Manuscripts In the Publication Process

Renkawitz J et al. Nuclear positioning facilitates amoeboid cell migration along the path of least resistance.