

Barbara Treutlein – Curriculum Vitae

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PERSONAL DATA

Date of Birth: 4 April 1982
Place of Birth: Reutlingen, Germany
Nationality: German

POSITIONS

09/2016-present Appointment as Tenure Track Assistant Professor at the TU Munich jointly with Max Planck Research Group Leader Position
01/2016-present Max Planck Research Group Leader, MPI for Evolutionary Anthropology, Leipzig, and MPI for Molecular Cell Biology and Genetics, Dresden, Germany.
09/2014-12/2015 Group leader, MPI for Evolutionary Anthropology, Leipzig, Germany.
09/2012-08/2014 Postdoctoral Fellow with Stephen Quake, Stanford University, USA.
11/2007-08/2012 Predoctoral Fellow with Jens Michaelis, LMU München, Germany.

EDUCATION

08/2012 Ph.D. (Dr. rer. nat. “summa cum laude”), LMU München, Germany.
10/2007 Diploma in Chemistry, University of Mainz, grade: 1.0.
09/2004-08/2005 Student researcher with R.C. Cohen, UC Berkeley, USA.
10/2001-10/2007 Student of Chemistry, University Tübingen and University Mainz, Germany.
2001 Abitur, Johannes-Kepler-Gymnasium, Reutlingen, grade: 1.0.

AWARDS AND HONOURS

12/2012 PhD Prize of the Dr. Klaus Römer Foundation, Munich.
01/2009-12/2011 PhD-Scholarship of the Boehringer Ingelheim Fonds.
11/2007 – 08/2012 PhD-Scholarship of the Elite Network of Bavaria.
09/2009 Biotechnology and Applied Biochemistry Young Investigator Award.
03/2009 Student Research Achievement Award (SRAA), American Biophysical Society.
04/2008 Prize of the Böhringer Ingelheim Foundation for Diploma Thesis.
2002- 09/2007 Scholarship of the “Studienstiftung des deutschen Volkes” (German National Academic Foundation).

PUBLICATIONS

B. Treutlein*, Q.Y. Lee*, J.G. Camp, M. Mall, W. Koh, S.A.M. Shariati, S. Sim, N.F. Neff, J.M. Skotheim, M. Wernig, S. Quake. Dissecting direct reprogramming from fibroblast to neuron using single-cell RNA-seq.
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O. Gokce*, G.M. Stanley*, **B. Treutlein***, N.F. Neff, J.G. Camp, R.C. Malenka, P.E. Rothwell, M.V. Fuccillo, T.C. Sudhof, S.R. Quake. Cellular Taxonomy of the Mouse Striatum as Revealed by Single-Cell RNA-Seq.
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PNAS, **112** (51) 15672-15677 (2015).

A.E. Vaughan, A.N. Brumwell, Y. Xi, J.E. Gotts, D.G. Brownfield, **B. Treutlein**, K. Tan, V. Tan, F.C. Liu, M.R. Looney, M.A. Matthay, J.R. Rock, H.A. Chapman, Lineage-negative progenitors mobilize to regenerate lung epithelium after major injury. *Nature*, **517**, 621-625 (2015).

B. Treutlein*, O. Gokce*, S. R. Quake and T. C. Südhof, Cartography of Neurexins mapped by single-molecule long-read mRNA sequencing. *PNAS*, **111** (13), 1291-99 (2014).

B. Treutlein*, D. G. Brownfield*, A. R. Wu, N. F. Neff, G. L. Mantalas, F. H. Espinoza, T. J. Desai, M. A. Krasnow and S. R. Quake, Reconstructing lineage hierarchies of the distal lung epithelium using single cell RNA-seq. *Nature*, **509**, 371-375 (2014).

A. R. Wu, N. F. Neff, T. Kalisky, P. Dalerba, **B. Treutlein**, M. E. Rothenberg, F. M. Mburu, G. L. Mantalas, S. Sim, M. F. Clarke and S. R. Quake, Quantitative assessment of single-cell RNA-sequencing methods. *Nature Methods*, **11**, 41-46 (2013).

B. Treutlein and J. Michaelis, Single molecule studies of RNA polymerases. *Chem. Rev.*, **113**, 8377-99 (2013).

B. Treutlein, A. Muschielok, J. Andrecka, A. Jawhari, C. Buchen, D. Kostrewa, F. Hög, P. Cramer and J. Michaelis, Dynamic architecture of a minimal RNA Polymerase II open promoter complex. *Molecular Cell*, **46**, 136-146 (2012).

B. Treutlein and J. Michaelis, Direct Observation of Single RNA Polymerase Processing through a Single Endogenous Gene in a Living Yeast Cell. *Angew Chem Int Ed*, **50**, 9788-9790 (2011).

J. Andrecka, **B. Treutlein**, M. I. Arcusa, A. Muschielok, R. Lewis, A. C. M. Cheung, P. Cramer and J. Michaelis, Nano-positioning system reveals the course of upstream and nontemplate DNA within the RNA polymerase II elongation complex. *Nucleic Acids Research*, **37**, 5803-5809 (2009).

J.A. Huffman*, **B. Treutlein*** and U. Pöschl, Fluorescent biological aerosol particle concentrations and size distributions measured with an ultraviolet aerodynamic particle sizer (UV-APS) in. *Atmospheric Chemistry and Physics* **10** (7), 3215 (2010).

S. Schuy, **B. Treutlein**, A. Pietuch and A. Janshoff, In situ synthesis of lipopeptides as versatile receptors for the specific binding of nanoparticles and liposomes to solid-supported membranes. *Small* **4** (7), 970 (2008).