

Personal information

Name **Dr. Simone Mayer**
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Professional Experience

09/2018 – present **Independent Research Group Leader “Molecular Brain Development” at Hertie Institute for Clinical Brain Research**
University of Tübingen, *Tübingen, Germany*

05/2015 – 08/2018 **Postdoctoral Scholar at University of California, San Francisco**
Laboratory of Prof. Dr. Arnold Kriegstein, Eli and Edythe Broad Center of Regeneration Medicine and Stem Cell Research, *San Francisco, USA*

10/2014 – 02/2015 **Blue Book Trainee at European Research Council (ERC)**
ERC Executive Agency, European Commission, *Brussels, Belgium*

06/2011 – 08/2014 **Researcher at Max Planck Institute of Experimental Medicine**
Laboratory of Dr. Theofilos Papadopoulos / Prof. Dr. Nils Brose, Department of Molecular Neurobiology, *Göttingen, Germany*

10/2010 – 03/2011 **Researcher at Yale University**
Laboratory of Prof. Dr. Nenad Sestan, Department of Neurobiology, *New Haven, USA*

Education

06/2011 – 06/2014 **Dr. rer. nat. (PhD), International Max Planck Research School Molecular Biology**
Georg August University, *Göttingen, Germany*

10/2009 – 04/2011 **Master of Science (MSc), International Max Planck Research School Molecular Biology**
Georg August University, *Göttingen, Germany*

10/2006 – 06/2009 **Bachelor of Arts (BA honours) / Master of Arts in Natural Sciences**
University of Cambridge, Sidney Sussex College, *Cambridge, UK*

Grants and Fellowships

08/2018 **NARSAD Young Investigator Grant** – awarded by the Brain and Behavior Research Foundation

05/2017 - 08/2018 **Research fellowship** – awarded by the German Research Foundation (DFG)

07/2015 – 04/2017 **Long-term fellowship** – awarded by European Molecular Biology Organisation (EMBO)

10/2011 **PhD Excellence Stipend** – awarded by the Göttingen Graduate School for Neurosciences, Biophysics, and Molecular Biosciences (GGNB)

10/2010 – 01/2011 **Master thesis stipend** – awarded by the German Academic Exchange Service (DAAD)

06/2009 **Samuel Taylor Scholarship** – awarded for academic excellence by Sidney Sussex College, Cambridge, UK

Publications

2019 *Human gestational NMDAR autoantibodies impair neonatal murine brain function.* – **Ann Neurol.** 2019 Jul 20. Jurek B, Chayka M, Kreye J, Lang K, Kraus L, Fidzinski P, Kornau HC, Dao LM, Wenke NK, Long M, Rivalan M, Winter Y, Leubner J, Herken J, **Mayer S**, Mueller S, Boehm-Sturm P, Dirnagl U, Schmitz D, Kölich M, Prüss H.

- 2019 *Neuronal vulnerability and multilineage diversity in multiple sclerosis.* – **Nature**. 2019 Jul 17. Schirmer L, Velmeshev D, Holmqvist S, Kaufmann M, Werneburg S, Jung D, Vistnes S, Stockley JH, Young A, Steindel M, Tung B, Goyal N, Bhaduri A, **Mayer S**, Engler JB, Bayraktar OA, Franklin RJM, Haeussler M, Reynolds R, Schafer DP, Friese MA, Shioh LR, Kriegstein AR, Rowitch DH.
- 2019 *Immature excitatory neurons develop during adolescence in the human amygdala.* – **Nat Commun**. 2019 Jun 21;10(1):2748. Sorrells SF, Paredes MF, Velmeshev D, Herranz-Pérez V, Sandoval K, **Mayer S**, Chang EF, Insausti R, Kriegstein AR, Rubenstein JL, Manuel Garcia-Verdugo J, Huang EJ, Alvarez-Buylla A.
- 2019 *Single-Cell Genomics Identifies Cell Type-Specific Molecular Changes in Autism.* – **Science**. 2019 May 17;364(6441):685-689. Velmeshev D, Schirmer L, Jung D, Haeussler M, Perez Y, **Mayer S**, Bhaduri A, Goyal N, Rowitch DH, Kriegstein AR.
- 2019 *Multimodal single-cell analysis reveals physiological maturation in the developing human neocortex* – **Neuron**. 2019 Apr 3;102(1):143-158. **Mayer S**, Chen J, Velmeshev D, Mayer A, Eze UC, Bhaduri A, Cunha CE, Jung D, Arjun A, Li E, Alvarado B, Wang S, Lovegren N, Gonzales ML, Szpankowski L, Leyrat A, West JAA, Panagiotakos G, Alvarez-Buylla A, Paredes MF, Nowakowski TJ, Pollen AA, Kriegstein AR.
- 2018 *Does Adult Neurogenesis Persist in the Human Hippocampus?* – **Cell Stem Cell**, 2018 Dec 6;23(6):780-781. Paredes MF, Sorrells SF, Cebrian-Silla A, Sandoval K, Qi D, Kelley KW, James D, **Mayer S**, Chang J, Auguste KI, Chang EF, Gutierrez Martin AJ, Kriegstein AR, Mathern GW, Oldham MC, Huang EJ, Garcia-Verdugo JM, Yang Z, Alvarez-Buylla A.
- 2018 *The adult human hippocampus does not contain a proliferative neurogenic niche* – **Nature**, 2018 Mar 15;555(7696):377-381. Sorrells SF, Paredes MF, Cebrian-Silla A, Sandoval K, Qi D, Kelley KW, James D, **Mayer S**, Chang J, Auguste KI, Chang EF, Gutierrez AJ, Kriegstein AR, Mathern GW, Oldham MC, Huang EJ, Garcia-Verdugo JM, Yang Z, Alvarez-Buylla A.
- 2013 *Collybistin activation by GTP-TC10 enhances postsynaptic gephyrin clustering and hippocampal GABAergic neurotransmission* – **Proc Natl Acad Sci U S A**. 2013 Dec 17;110(51):20795-800. **Mayer S**, Kumar R, Jaiswal M, Soykan T, Ahmadian MR, Brose N, Betz H, Rhee JS, Papadopoulos T.
- 2011 *Spatiotemporal transcriptome of the human brain* – **Nature**. 2011 Oct 26; 478(7370):483-9. Kang HJ, Kawasawa YI, Cheng F, Zhu Y, Xu X, Li M, Sousa AM, Pletikos M, Meyer KA, Sedmak G, Guannel T, Shin Y, Johnson MB, Krsnik Z, **Mayer S**, Fertuzinhos S, Umlauf S, Lisgo SN, Vortmeyer A, Weinberger DR, Mane S, Hyde TM, Huttner A, Reimers M, Kleinman JE, Sestan N

Book Contributions

- 2016 *The expansion of the cortical sheet in primates* – In: Kaas, J (ed.), **Evolution of Nervous Systems**, 2e. vol. 3, pp. 59–71. Oxford: Elsevier.
Mayer S, Kriegstein AR

Invited Talks

- 05/2019 **Department of Medical Psychology, Charité - Universitätsmedizin Berlin**, Berlin, Germany
- 03/2019 **From normal brain development to pathology: what role does the environment play?**, Symposium at the 13th Goettingen Meeting of the German Neuroscience Society, Goettingen, Germany
- 07/2018 **Neurotransmitter signaling in brain development and disease - looking beyond synapses**, Symposium at the Federation of European Neuroscience Societies (FENS) Forum, Berlin, Germany
- 07/2018 **Ludwig-Maxilians-Universität and HelmholtzZentrum**, Munich, Germany
- 06/2018 **VIB-KU Leuven, Center for Brain and Disease Research**, Leuven, Belgium

06/2018 **EMBO Fellows Meeting**, European Molecular Biology Laboratory, Heidelberg, Germany

03/2018 **Hertie Institute for Clinical Brain Research**, Tübingen, Germany

09/2017 **Institute of Cell Biology and Neurobiology, Charité - Universitätsmedizin Berlin**, Berlin, Germany

09/2017 **Molecular and Cellular Mechanisms of Neural Circuit Assembly / AXON2017**, Institute of Science and Technology Austria, Klosterneuburg, Austria

06/2017 **Bay Area Postdoc Symposium**, Buck Institute, Novato, USA

05/2017 **Brain and Spine Institute (ICM)**, Paris, France

03/2017 **Institute of Neuronal Cell Biology, Technical University of Munich**, Munich, Germany

12/2016 **Max Planck Institute for Brain Research**, Frankfurt, Germany

11/2016 **EMBO USA Fellows Meeting**, Koch Institute for Integrative Cancer Research Massachusetts Institute of Technology, Cambridge, USA

08/2016 **Gordon Research Conference**, Neural Development, Newport, USA

04/2016 **Single Cell Genomics Meeting**, University of California, San Francisco, USA

05/2014 **Max Planck Institute of Neurobiology**, Munich, Germany

Service to Academic Community

04/2018 – present **Organizer of Tübingen Neuro Campus Collaborative Research Day Workshop and Neuro Campus Initiative "Pregnancy and Brain Development"**

10/2018 – present **Organizer of Tübingen Neuro Campus Summer School Program**

08/2018 – present **Reviewer Neural Development**

03/2019 **Co-Chair of the Symposium "From normal brain development to pathology: what role does the environment play?"** at the 13th Goettingen Meeting of the German Neuroscience Society, Goettingen, Germany

08/2018 **Co-Chair of the Gordon Research Seminar** in Neural Development 2018, Newport, USA

07/2018 **Co-Chair of the Symposium "Neurotransmitter signaling in brain development and disease - looking beyond synapses"** at the Federation of European Neuroscience Societies (FENS) Forum in Berlin in July 2018

08/2017 **Speaker and panelist** of a workshop on grant writing for international postdoctoral scientists, UCSF, San Francisco, USA

10/2010 – 12/2012 **Organizer of the 8th and 9th International Symposium "Horizons in Molecular Biology"**: Head of the Speakers group, Public relations group, and member of the Planning and Coordination group

05/2011 – 05/2012 **PhD Student representative** at the International Max Planck Research School, MSc/PhD Program Molecular Biology. Tasks: active participation in the decision-making process of the graduate school at different levels