

Curriculum Vitae

Personal Data

Title	PD Dr.
First name	Mareike
Name	Albert
Current position	Emmy Noether research group leader
Current institution(s)/site(s), country	TUD Dresden University of Technology Center for Regenerative Therapies Dresden (CRTD) Fetscherstr. 105, 01307 Dresden, Germany
Identifiers/ORCID	0000-0001-9855-9344

Qualifications and Career

Stages	Periods and Details
Degree programme	10/1999-06/2002, Biochemistry/Molecular Biology, diploma, University of Jena, Germany 07/2002-06/2003 Biomedical Science, MSc, Curtin University of Technology, Perth, Australia
Doctorate	05/2004-08/2008, PhD, Epigenetic programming during mouse pre-implantation development, supervisor: Antoine H.F.M. Peters, Friedrich Miescher Institute (FMI)/ Basel University, Switzerland
Stages of academic/professional career	04/2024, Habilitation: Genetics, TUD Dresden University of Technology, Dresden, Germany Since 01/2019, Group leader, Center for Regenerative Therapies Dresden (CRTD), TUD Dresden University of Technology, Dresden, Germany 07/2013-12/2018, Postdoctoral fellow, supervisor: Prof. Wieland B. Huttner, Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG), Dresden, Germany 12/2008-01/12/2012, Postdoctoral fellow, supervisor: Prof. Kristian Helin, Biotech Research and Innovation Center (BRIC), Copenhagen, Denmark

Engagement in the Research System

Paper review:

Cell Rep, Cereb Cortex, Curr Opin Genet Dev, Development, eLife, EMBO J, EMBO Rep, Eur J Med Genet, Nat Comm, Nat Neurosc, Nat Protocols, Neuron and others

Grant review:

German Research Foundation (DFG), Swiss National Science Foundation (SNSF), Austrian Science Fund (FWF), Cariplo Telethon Alliance, Wellcome Trust, Wellcome Trust/DBT India Alliance

Symposia:

Organisation of Workshops

“Neurogenomics”, Carezza, Italy, 10/2023, 20 participants, 3 days

“Gene regulation in cortex development and evolution”, Benediktbeuern, 04/2022, 16 participants, 3 days

Organisation of Symposia

“Chromatin regulation in neural development and maintenance”, Dresden, 06/2023, 80 participants, 1/2 day

“Organoids as models of human development and disease”, Dresden, 11/2021, 120 participants, 1/2 day

“Epigenetics in development and regeneration”, Dresden, 10/2020, 100 participants, 1/2 day

Organisation of CRTD institute retreat “Let’s get together over science and more”, Bad Muskau, 07/2022, 140 participants, 2 days

Session chair

EMBO Workshop “Epigenetics and condensates in lineage decisions”, Dresden, Germany, 2023

Outreach:

“Long Night of Science”, brain organoids and kids’ handicraft, since 2019 “Girls Day” workshop on Brain organoids, 2023

“UniStem Day – Stammzellen erleben”, presentation, high school, 2020 – 2022 School visit to CRTD, workshop on Brain and neurons, 2023

“Scientific project week”, research experience, high school, 2023 “Internship”, work experience, high school, 2022

“Scientific annual work”, lab project, high school, since 2020 Experiments and visits to MPI-CBG, primary school, 2015 – 2018 “Max Planck Day”, presentation, Townhall, Dresden, 2018

“Seniorenakademie”, presentation, MPI-CBG, 2017

“Long Night of Science”, stand on “Sweet DNA”, kids’ program, 2015 – 2017 “Jugend Forscht” and “Girls day”, presentations, high school, 2014 – 2015

Scientific Results (selected)

Cubillos P, Ditzer N, Kolodziejczyk A, Schwenk G, Hoffmann J, Schütze TM, Derihaci RP, Birdir C, Köllner JEM, Petzold A, Sarov M, Martin U, Long K, Wimberger P, **Albert M.** (2024) The growth factor EPIREGULIN promotes basal progenitor cell proliferation in the developing neocortex. *EMBO J.* 43(8):1388-1419. *Featured on the cover and in a News and Views article (EMBO J. 43:1385-1387).*

Noack F, Vangelisti S, Ditzer N, Chong F, **Albert M** and Bonev B (2023). Joint profiling of 3D genome, DNA methylation, chromatin accessibility and gene expression in human cortical organoids. *Nat Cell Biol.* 25(12):1873-1883.

Schütze TM, Bölicke N, Sameith K and **Albert M** (2022). Profiling cell type-specific gene regulatory regions in human cortical organoids. In: Gopalakrishnan, J. (eds) *Brain Organoid Research*. Neuromethods, vol189: 17-42. Humana, New York, NY.

Bölicke N, and **Albert M** (2022). Polycomb – mediated gene regulation in human brain development and neurodevelopmental disorders. *Dev Neurobiol.* 82(4): 345-363. *Featured on the cover of Dev Neurobiol.*

Kalebic N, Gilardi C, **Albert M**, Namba T, Long KR, Kostic M, Langen B, and WB Huttner (2018). Human-specific ARHGAP11B induces hallmarks of neocortical expansion in developing ferret neocortex. *eLife.* 7: e41241.

Albert M[§], Kalebic N, Florio M, Lakshmanaperumal N, Haffner C, Brandl H, Henry I, and WB Huttner[§] (2017). Epigenome profiling and editing of neocortical progenitor cells during development. *EMBO J.* 26: 2642-2658. *Among the Top cited articles published in 2017/18 in Embo J.*

Florio M, Albert M*, Taverna E*, Namba T*, Brandl H, Lewitus E, Haffner C, Sykes A, Wong FK, Peters J, Guhr E, Klemroth S, Prüfer K, Kelso J, Naumann R, Nüsslein I, Dahl A, Lachmann R, Pääbo S, and WB Huttner (2015). Human-specific gene *ARHGAP11B* promotes basal progenitor amplification and neocortex expansion. *Science*. 347(6229): 1465-70. *Presented in Science News (10.1126/science.aaa7913) and The Guardian, NBC, El País, Lifescience, Die Zeit, Spektrum der Wissenschaft, Sächsische Zeitung and others.*

Schmitz SU*, Albert M*, Malatesta M, Morey L, Johansen JV, Bak M, Tommerup N, Abarrategui I, and Helin K (2011). Jarid1b targets genes regulating development and is involved in neural differentiation. *EMBO J.* 30(22): 4586-600.

Tardat M*, Albert M*, Kunzmann R, Liu Z, Kaustov L, Thierry R, Duan S, Brykczynska U, Arrowsmith CH, and Peters AH (2015). Cbx2 targets PRC1 to constitutive heterochromatin in mouse zygotes in a parent-of-origin dependent manner. *Mol Cell.* 58(1): 157-71.

Puschendorf M[#], Terranova R, Boutsma E, Mao X, Isono K, Brykczynska U, Kolb C, Otte AP, Koseki H, Orkin SH, van Lohuizen M, and AHFM Peters (2008). PRC1 and Suv39h specify parental asymmetry at constitutive heterochromatin in early mouse embryos. *Nat Genet.* 40(4): 411-20. *Presented as Research Highlight in Nature Reviews Genetics, 9, 248-249 (2008).*

* Equal contributions; § Co-corresponding authors; # Albert (née Puschendorf)

Academic Distinctions

06/2022 – 05/2025	ERA-NET Neuron consortium grant
06/2020 – 12/2022	transCampus Funding Programme (Kings College London – TUD)
Since 06/2020	TUD Young Investigator, Faculty of Biology, TUD
06/2020 – 03/2024	Schram foundation research grant
11/2019 – 10/2025	Emmy Noether research group, DFG
03/2016 – 02/2017	Christiane Nüsslein Volhard (CNV) Foundation support
09/2009 – 11/2011	EMBO Long Term Postdoc Fellowship
09/2009	Edmond H. Fisher Prize awarded by FMI for the best PhD thesis in 2008
09/2007	EPITRON External Travel Grant
2006, 2008	EPIGENOME Network of Excellence Travel Award
04/2005 – 03/2007	Boehringer Ingelheim Fonds (BIF) PhD Scholarship
02/2005	Development Traveling Fellowship

Presentations at scientific meetings and institutes

04/2024 GSCN on tour, MPI-CBG, Dresden, Germany*

04/2024 Max Delbrück Centre for Molecular Medicine, Berlin, Germany*

02/2024 Centre for Developmental Neurobiology, King's College London, U.K.*

09/2023 EMBO Workshop, Epigenetics and condensates, Dresden, Germany

09/2023 EMBO Workshop, Gene regulatory mechanisms in neural fate decisions, Alicante, Spain

04/2023 EMBL symposium, Brain genome: regulation, evolution, and function, Heidelberg, Germany

03/2023 Chromatin Club Campus Germany, Germany (virtual)

03/2023 Schram symposium, Building a functional nervous system: from different cellular players to epigenetic regulation, Göttingen, Germany*

07/2022 Max Planck School, Cognition Academy, Dresden, Germany*

05/2022 LSC Annual meeting, Berlin, Germany

12/2021 FAU Erlangen, Neural epigenomics symposium, Germany

12/2021 World Wide Neuro Epigenetics seminar series (virtual)*

10/2021 RTG 2162 Retreat, Neurodevelopment and vulnerability, Erlangen, Germany*

07/2021 Neuronal regulation and development symposium, Ruhr Universität Bochum

12/2020 Molecular Biology Society of Japan Meeting, Japan (virtual)*

01/2020 German–Japanese Developmental Neuroscience Meeting, Kyoto, Japan*

01/2020 Riken Center for Integrative Medical Sciences, Yokohama, Japan*

09/2019 EMBO course, Mouse genome engineering, Dresden, Germany*

06/2019 Keynote lecture at MPI-CBG Postdoc retreat, Gohrisch, Germany*

03/2019 LSC Annual meeting, Göttingen, Germany

11/2018 Helmholtz Centre, Munich, Germany*

05/2018 Institute of Molecular Biology, Mainz, Germany

02/2018 Max Planck symposium, Berlin, Germany

02/2018 LSC Annual meeting, Münster, Germany

01/2018 EMBL, Monterotondo, Italy

07/2017 Christiane Nüsslein Volhard foundation meeting, Tübingen, Germany

07/2017 EMBO course, Mouse genome engineering, Dresden, Germany*

12/2011 Danish National Research Council, Copenhagen, Denmark

04/2008 Keystone Symposium on Chromatin, Snowmass, U.S.

09/2007 EPITRON brainstorming meeting, Crete, Greece

01/2007 TriRhena, Chromatin & Transcription meeting, Strasbourg, France

12/2006 Abcam, Chromatin Structure & Function meeting, Dominican Republic

* Invited talks

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