Mathias Treier

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Genetics of Metabolic & Reproductive Disorders
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Curriculum vitae

since 2011	Professor (W3), Charité - Universitätsmedizin Berlin Head, research group “Genetics of Metabolic & Reproductive Disorders”, Max Delbrück Center for Molecular Medicine (MDC)
2010 - 2011	Professor (W3) and Director, Institute for Molecular Endocrinology, University of Cologne
2000 - 2009	Independent group leader, Developmental Biology Unit, European Molecular Biology Laboratory (EMBL), Heidelberg
1995 - 1999	Postdoctorate, (Advisor: Prof. M. G. Rosenfeld), Howard Hughes Medical Institute, University of California, San Diego
1991 - 1994	PhD thesis in Molecular Biology (Advisors: Prof. T. Graf and Prof. D. Bohmann), European Molecular Biology Laboratory (EMBL) and University of Heidelberg
1984 - 1990	Studies in Biochemistry, Diploma work (Advisor: Prof. S. Jentsch), University of Tübingen

Research fields

Our group conducts research on:

- Mouse models for human diseases
- Epigenetic regulation of mammalian physiology
- Transcriptional regulation of stem cell populations in organ development

Activities in the scientific community, honors, awards

2010	Offer of Nuffield Professorship of Obstetrics and Gynaecology, University of Oxford, UK (declined)
1997	California Breast Cancer Fellowship
1995	Boehringer Ingelheim Fonds postdoctoral fellowship
1991	EMBL Ph.D. fellowship

Selected publications

Uhlenhaut NH, Jakob S, Anlag K, Eisenberger T, Sekido R, Kress J, Treier AC, Klugmann C, Klasen C, Holter NI, Riethmacher D, Schutz G, Cooney AJ, Lovell-Badge R, Treier M. Somatic sex reprogramming of adult ovaries to testes by FOXL2 ablation. Cell. 2009;139(6):1130-42.

Storm R, Cholewa-Waclaw J, Reuter K, Brohl D, Sieber M, Treier M, Muller T, Birchmeier C. The bHLH transcription factor Olig3 marks the dorsal neuroepithelium of the hindbrain and is essential for the development of brainstem nuclei. Development. 2009;136(2):295-305.

Coldren CD, Lai Z, Shragg P, Rossi E, Glidewell SC, Zuffardi O, Mattina T, Ivy DD, Curfs LM, Mattson SN, Riley EP, Treier M, Grossfeld PD. Chromosomal microarray mapping suggests a role for BSX and Neurogranin in neurocognitive and behavioral defects in the 11q terminal deletion disorder (Jacobsen syndrome). Neurogenetics. 2009;10(2):89-95.

Nogueiras R, Lopez M, Lage R, Perez-Tilve D, Pfluger P, Mendieta-Zeron H, Sakkou M, Wiedmer P, Benoit SC, Datta R, Dong JZ, Culler M, Sleeman M, Vidal-Puig A, Horvath T, Treier M, Dieguez C, Tschop MH. Bsx, a novel hypothalamic factor linking feeding with locomotor activity, is regulated by energy availability. Endocrinology. 2008;149(6):3009-15.

Vue TY, Aaker J, Taniguchi A, Kazemzadeh C, Skidmore JM, Martin DM, Martin JF, Treier M, Nakagawa Y. Characterization of progenitor domains in the developing mouse thalamus. J Comp Neurol. 2007;505(1):73-91.

Sakkou M, Wiedmer P, Anlag K, Hamm A, Seuntjens E, Ettwiller L, Tschop MH, Treier M. A role for brain-specific homeobox factor Bsx in the control of hyperphagia and locomotory behavior. Cell Metab. 2007;5(6):450-63.

Attanasio M, Uhlenhaut NH, Sousa VH, O'Toole JF, Otto E, Anlag K, Klugmann C, Treier AC, Helou J, Sayer JA, Seelow D, Nurnberg G, Becker C, Chudley AE, Nurnberg P, Hildebrandt F, Treier M. Loss of GLIS2 causes nephronophthisis in humans and mice by increased apoptosis and fibrosis. Nat Genet. 2007;39(8):1018-24.

Muller T, Anlag K, Wildner H, Britsch S, Treier M, Birchmeier C. The bHLH factor Olig3 coordinates the specification of dorsal neurons in the spinal cord. Genes Dev. 2005;19(6):733-43.

Treier M, Gleiberman AS, O'Connell SM, Szeto DP, McMahon JA, McMahon AP, Rosenfeld MG. Multistep signaling requirements for pituitary organogenesis in vivo. Genes Dev. 1998;12(11):1691-704.

Treier M, Bohmann D, Mlodzik M. JUN cooperates with the ETS domain protein pointed to induce photoreceptor R7 fate in the Drosophila eye. Cell. 1995;83(5):753-60.