

## Magdalena Götz

**Date of Birth:** January 17, 1962

**Address:** Director, Institute of Stem Cell Research  
Helmholtz Zentrum München  
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## Education

July, 2000 Habilitation (Zoology)

July, 1992 PhD-Thesis (summa cum laude)

1989-1992 PhD at the Friedrich-Miescher Institute of the Max-Planck Society, Tübingen, Germany

Nov., 1989 Diplome of Biology, University of Tübingen, Germany

1982-1989 Study of Biology at the University of Tübingen, Germany, and Zürich, Switzerland

1981-1982 Study of Philosophy at the University of Heidelberg, Germany

June, 1981 Abitur, Bunsen Gymnasium, Heidelberg, Germany

1968-1981 Primary and High School in Heidelberg, Germany

## Professional Experience

Since 2011 W3 Research Professor (Reduced teaching); Chair of Physiological Genomics, LMU

2011 Offer for Director of Leibniz Institute of Aging/Friedrich Lippmann Institute

since 12.2004 Chair of Physiological Genomics, Medical Faculty, LMU Munich, Germany

since 01.2004 Director, Stem Cell Institute, GSF – since 01.01.2008: Helmholtz Zentrum München, Neuherberg-Munich, Germany

07.1997 – 12.2003 Research group leader at the Max-Planck Institute of Neurobiology, Munich-Martinsried, Germany

01.1997 – 06.1997    Scientist at the Max-Planck Institute of biophysical Chemistry, Göttingen, Germany  
06.1994 – 12.1996    Postdoctoral Scientist at SmithKline Beecham Harlow, U.K.  
05.1993 – 05.1994    Postdoctoral fellow at the National Institute for Medical Research, London, U.K.  
08.1992- 04.1993    Postdoctoral fellow at the Friedrich-Miescher Institute of the Max-Planck Society, Tübingen, Germany

### **Editorial Board Member**

Editor for Development from July 2010-March 2015; Associate Editor for the Journal of Neuroscience from 2006 – 2012;

Editorial Board:

Cell Stem Cell, Development, EMBO Journal, Journal of Neuroscience, Glia, Neurogenesis, BMC Developmental Biology, Cell Adhesion and Migration, Frontiers in Neurogenesis, Current Opinion in Genetics and Development, Genes and Development until January 2014

### **Board Memberships**

Grant panels:

Member of the advanced ERC Grant Panel (since 2016); Member of the German Research Council Neuroscience Panel (Fachkollegium) (2008-2016); Member of the Leibniz Award Panel of the German Research Council (2013-2016); Member of the Wellcome Trust Neuroscience Panel (2005-2007)

Member of the Advisory Board of the:

Excellence Cluster NeuroCure, Berlin, Germany; Fritz-Lippmann Institute for Aging Research, Jena, Germany; ICM, Paris, France; Institut Fer a Moulin, Paris, France; Cambridge Stem Cell Institute, Cambridge, UK; Synergy, Munich, Germany, SFB 870, Munich, Germany, und GSN, Munich, Germany.

Past Advisory Board Member:

MDC, Berlin, Germany (2011-2016); Max-Planck Institute for Molecular Cell Biology and Genetics, Dresden, Germany (2011-2013); MRC Neurodevelopment Centre, London, UK (-2012); NCCR, Zürich, Switzerland (-2012); Netherlands Institute for Neuroscience (2007 – 2012); Society of Genetics/Gesellschaft für Genetik (GfG) (-2012); ESTOOLS (-2011)

### **Organisation of international conferences**

Euroglia 2007, Estools 2010, ISDN 2010, Organisatorial Board: Euroglia Berlin 2013; EMBO Stem Cell Meeting 2014, ISSCR 2018.

## Awards and Honors

May 2017	Roger de Spoelberch Prize
February 2016	Member of the Royal Academy of Pharmacy of Spain
September 2015	German Stem Cell Network Female Scientist Award
March 2015	Carl-Zeiss Price of the German Society for Cell Biology
September 2014	Ernst Schering Preis
October 2013	External Member of the Max-Planck-Society, Max-Planck Institute of Biochemistry, Martinsried
June 2013	Remedios Caro Almela Prize on Developmental Neurobiology
June 2010	Federal Cross of Merit on Ribbon
October 2008	Hans und Ilse Breuer Award
October 2008	Member of the Leopoldina Academy
March 2007	Gottfried-Wilhelm Leibniz Award
January 2007	Familie Hansen Award
June 2006	EMBO Member
May 2006	Member of Academia Europaea, London, UK
01.1998 – 12.2003	Max-Planck C3-Professorship Award for outstanding Women in Science
June, 1993	Otto-Hahn-Award of the Max-Planck Society for outstanding Thesis work
1986 – 1989	Fellow of the Studienstiftung des Deutschen Volkes

### ***Peer reviewed publications***

Falk S., Bugeon S., Ninkovic J., Pilz G.-A., Postiglione M.-P., Cremer H., Knoblich J.A. and **Götz M.** (2017) Time-Specific Effects of Spindle Positioning on Embryonic Progenitor Pool Composition and Adult Neural Stem Cell Seeding. *Neuron* DOI: 10.1016/j.neuron.2017.02.009. **Highlighted by Vanderhaeghen P., Neuron doi: 10.1016/j.neuron.2017.02.015**

Gascón S., Ortega F. and **Götz M.** (2017) Transient Creb-mediated transcription is Key in direct neuronal reprogramming. *Neurogenesis* doi/full/10.1080/23262133.2017.1285383.

Supplie L., Düking T., Campbell G., Diaz F., Moraes C., **Götz M.**, Hamprecht B., Mahad D., Boretius S., and Nave K.-A. (2017) Respiration-deficient astrocytes survive as glycolytic cells in vivo. *Journal of Neuroscience*, *in press*

2016

Ramesh V.\*, Bayam E.\*, Cernilogar F.M., Bonapace I.M., Schulze M., Riemenschneider M.J., Schotta G. and **Götz M.** (2016) Loss of Uhrf1 in neural stem cells leads to activation of retroviral elements and delayed neurodegeneration. *Genes & Development* 30, 2199-2212.

Falkner S.\*, Grade S.\*, Dimou L., Conzelmann K.-K., Tobias Bonhoeffer, **Götz M.\*** and Hübener M.\* (2016) Transplanted embryonic neurons integrate into adult neocortical circuits. *Nature* 539, 248-253. **Highlighted by Grealish and Parmar, Cell Stem Cell** 19, 679-680.

Köferle A., Worf K., Breunig C., Baumann V., Herrero J., Wiesbeck M., Hutter L.H., **Götz M.**, Fuchs C., Beck S. and Stricker S.H. (2016) CORALINA: A universal method for the generation of gRNA libraries for CRISPR-based screening. *BMC Genomics* 17, DOI 10.1186.

Garcia-Caceres C., Carmelo Q., Varela L., Gao Y., Gruber T., Legutko B., Jastroch M., Johansson P., Ninkovic J., Yi C-X., Le Thuc O., Szigeti-Buck K., Cai W., Meyer C.W., Pfluger P.T., Fernandez A.M., Luquet S., Woods S.C., Torres-Alemán I., Kahn C.R., **Götz M.**, Horvath T.L. and Tschöp M.H. (2016) Astrocytic insulin signaling couples brain glucose uptake with nutrient availability. *Cell* 166, 867-80.

Martínez M.A.M., Romero C.D.J., Fernández V., Cárdenas A., **Götz M.** and Borrell V. (2016) A restricted period for formation of Outer Subventricular Zone defined by Cdh1 and Trnp1 levels. *Nature Communications* 7, 1-15.

Gascón S.\*, Murenu E.\*, Masserdotti G., Ortega F., Russo G.L., Petrik D., Deshpande A., Heinrich C., Karow M., Robertson S.P., Schroeder T., Beckers J., Irmeler M., Berndt C., Angeli J.P., Conrad M., Berninger B. and **Götz M.** (2016) Identification and Successful Negotiation of a Metabolic Checkpoint in Direct Neuronal Reprogramming. *Cell Stem Cell* 18, 396-409. **Highlighted by Quadrato et al., Cell Stem Cell** 18, 297-299.

2015

Lahiri S., Sun N., Solis-Mezarino V., Fedisch A., Ninkovic J., Feuchtinger A., **Götz M.**, Walch A.K. and Imhof A. (2015) In situ detection of histone variants and modifications in mouse brain using imaging mass spectrometry. *Proteomics* 16, 437-447.

Sirko S., Irmeler M., Gascón S., Bek S., Schneider S., Dimou L., Obermann J., De Souza Paiva D., Poirier F., Beckers J., Hauck S.M., Barde Y.A. and **Götz M.** (2015) Astrocyte reactivity after brain injury - The role of galectins 1 and 3. *Glia* 63, 2340-2361.

Kyrousi C., Arbi M., Pilz G.-A., Pefani D.E., Lalioti M.E., Ninkovic J., **Götz M.**, Lygerou Z. and Taraviras S. (2015) Mcidas and GemC1 are key regulators for the

generation of multiciliated ependymal cells in the adult neurogenic niche. *Development* 142, 3661-3674.

Huettl R.-E., Eckstein S., Stahl T., Petricca S., Ninkovic J., **Götz M.** and Huber A. B. (2015) Functional dissection of the Pax6 paired domain: Roles in neural tube patterning and peripheral nervous system development. *Developmental Biology*, pii: S0012-1606(15)30051-8.

Masserdotti G.\*, Gillotin S.\*, Sutor B., Drechsel D., Irmeler M., Jørgensen H.F., Sass S., Theis F.J., Beckers J., Berninger B., Guillemot F.\* and **Götz M.\*** (2015) Transcriptional mechanisms of proneural factors and REST in regulating neuronal reprogramming of astrocytes. *Cell Stem Cell* 17, 74 – 88. **Highlighted by Wang et al., Cell Stem Cell 17, 1-3.**

Barbosa J., Sanchez Gonzalez R., Di Giaimo R., Baumgart E.V., Theis, F.J., **Götz M.** and Ninkovic J. (2015) Live imaging of adult neural stem cell behavior in the intact and injured zebrafish brain. *Science* 348, 789 – 793.

Calzolari F., Michel J., Baumgart E., Theis F., **Götz M.\*** and Ninkovic J.\* (2015) Fast clonal expansion and limited neural stem cell self-renewal in the adult subependymal zone. *Nature Neuroscience* 18, 490 – 494.

Aida T., Yoshida J., Nomura M., Tanimura A., Lino Y., Soma M., Bai N., Ito Y., Cui W., Aizawa H., Yanagisawa M., Nagai T., Takata N., Tanaka K.F., Takayanagi R., Kano M., **Götz M.**, Hirase H. and Tanaka K. (2015) Astroglial Glutamate Transporter Deficiency Increases Synaptic Excitability and Leads to Pathological Repetitive Behaviors in Mice. *Neuropsychopharmacology* 40, 1569-1579.

Bergami M., Masserdotti G., Temprana S.G., Motori E., Eriksson T.M., Göbel J., Yang S.M., Conzelmann K-K., Schinder A.F., **Götz M.** and Berninger B. (2015) A Critical Period for Experience-Dependent Remodeling of Adult-Born Neuron Connectivity. *Neuron* 85, 710–717.

2014

Heinrich C.\*, Bergami M.\*, Gascon S., Lepier A., Viganó F., Dimou L., Sutor B., Berninger B.\* and **Götz M.\*** (2014). Sox2-mediated conversion of NG2 glia into induced neurons in the injured adult cerebral cortex. *Stem Cell Reports* 3, 1000-1014.

Beckervordersandforth R., Deshpande A., Schäffnerl., Huttner H.B., Lepier A., LieD.C., and Götz M. (2014) In vivo targeting of adult neural stem cells in the dentate gyrus by a split-Cre approach. *Stem Cell Reports* 2, 153-162.

Schmidt M.-T., Weinandy F., Wilsch-Bräuninger M., Huttner W.B., Cappello S., **Götz M.** (2014) The role of  $\alpha$ -E-catenin in cerebral cortex development: radial glia specific effect on neuronal migration. *Frontiers in Cellular Neuroscience* 8, 215.

Agoston Z., Heine P., Brill M.S., Grebbin B.M., Hau A.-C., Kallenborn-Gerhardt W., Schramm J., **Götz M.**, and Schulte D. (2014) Meis2 is a Pax6-cofactor in neurogenesis and dopaminergic periglomerular fate specification in the adult olfactory bulb. *Development* 141, 28-38.

2013

Motori E., Puyal J., Toni N., Ghanem A., Angeloni C., Malaguti M., Cantelli-Forti G., Berninger B., Conzelmann K.-K., **Götz M.**, Winklhofer K., Hrelia S. and Bergami M. (2013) Inflammation-Induced Alteration of Astrocyte Mitochondrial Dynamics Requires Autophagy for Mitochondrial Network Maintenance. *Cell Metabolism* 18, 844-59.

Viganò F., Möbius W., **Götz M.** and Dimou L. (2013) Transplantation reveals regional differences in oligodendrocyte differentiation in the adult brain. *Nature Neuroscience* 16, 1370-1372.

Cappello S., Gray M.J., Badouel C., Lange S., Einsiedler M., Srour M., Chitayat D., Hamdan F.F., Jenkins Z.A., Morgan T., Preitner N., Uster T., Thomas J., Shannon P., Morrison V., Di Donato N., Van Maldergem L., Neuhann T., Newbury-Ecob R., Swinkells M., Terhal P., Wilson L.C., Zwijnenburg P.J.G., Sutherland-Smith A.J., Black M.A., Markie D., Michaud J.L., Simpson M.A., Mansour S., McNeill H., **Götz M.** and Robertson S.P. (2013) Mutations in genes encoding the cadherin receptor-ligand pair DCIS1 and FAT4 disrupt cerebral cortical development. *Nature Genetics* 45, 1300-8. **Highlighted by Faculty of 1000**

Ninkovic J., Steiner-Mezzadri A., Jawerka M., Akinci U., Masserdotti G., Petricca S., Fischer J., von Holst A., Beckers J., Lie C.D., Petrik D., Miller E., Tang J., Wu J., Lefebvre V., Demmers J., Eisch A., Mezger D., Crabtree G., Irmeler M., Poot R. and **Götz M.** (2013) The BAF complex interacts with Pax6 in adult neural progenitors to establish a neurogenic cross-regulatory transcriptional network. *Cell Stem Cell* 13, 403-418. **Highlighted by Jacklin and Fishell, Cell Stem Cell 13, 373-374 and Faculty of 1000**

Pilz G.-A., Shitamukai A., Reillo I., Pacary E., Schwausch J., Stahl R., Ninkovic J., Snippert H.J., Clevers H., Godinho L., Guillemot F., Borrell V., Matsuzaki F. and **Götz M.** (2013) Amplification of progenitors in the mammalian telencephalon includes a novel radial glial cell type. *Nature Communications* 4, 2125.

Robins S., Stewart I., McNay D., Taylor V., Giachino C., **Götz M.**, Ninkovic J., Briancon N., Maratos-Flier E., Flier J.S., Kokoeva M.V. and Placzek M. (2013) Alpha-tanycytes of the adult hypothalamic third ventricle include distinct populations of FGF-responsive neural progenitors. *Nature Communications* 4, 2049.

Stahl R., Walcher T., De Juan Romeo C., Pilz G.A., Cappello S., Irmeler M., SanzAnquela J.M., Beckers J., Blum R., Borrell V. and **Götz M.** (2013) Trnp1 regulates expansion and folding of the mammalian cerebral cortex by control of radial glial fate. *Cell* 153, 535-49. **Highlighted by Nature, Science and Embo Journal.**

Sirko S.\*, Behrendt G.\*, Johansson P., Tripathi P., Costa M., Bek S., Heinrich C., Tiedt S., Colak D., Dichgans M., Fischer I.R., Plesnila N., Staufenbiel M., Haass C., Snayyan M., Saghatelian A., Tsai L.-H., Fischer A., Grobe K., Dimou L. and **Götz M.** (2013) Reactive glia in the injured brain acquire stem cell properties in response to sonic hedgehog. *Cell Stem Cell* 12, 426-439. **Highlighted in Embo reports**

Bardehle S., Krüger M., Schwusch J., Ninkovic J., Clevers H., Snippert H.J., Buggenthin F., Theis F.J., Meyer-Luehmann M., Bechmannl., Dimou L. and **Götz M.** (2013) Live imaging of astrocyte responses to acute injury reveals selective juxtavascular proliferation. *Nature Neuroscience* 16, 580-586. **Highlighted in Embo reports**

Walcher T., Xie Q., Sun J., Irmeler M., Beckers J., Öztürk T., Niessing D., Stoykova A., Cvekl A., Ninkovic J. and **Götz M.** (2013) Molecular mechanisms of coordinating neurogenesis and proliferation –functional dissection of the paired domain of Pax6. *Development* 140, 1123-36.

Johansson P.A., Irmeler M., Acampora D., Beckers J., Simeone A. and **Götz M.** (2013) The transcription factor Otx2 regulates choroid plexus development and function. *Development* 140, 1055-1066. **Highlighted by Faculty of 1000**

Behrendt G., Baer K., Buffo A., Curtis M.A., Faull R.L., Rees M.I., **Götz M.** and Dimou L. (2013) Dynamic changes in myelin aberration and oligodendrocyte generation in chronic amyloidosis in mice and men. *Glia* 61, 273-286.

Deshpande A., Bergami M., Ghanem A., Conzelmann K.K., Lepier A., **Götz M.** and Berninger B. (2013) Retrograde monosynaptic tracing reveals the temporal evolution of inputs onto new neurons in the adult dentate gyrus and olfactory bulb. *PNAS* 110(12), E1152-61.

Xie Q., Yang Y., Huang J., Ninkovic J., Walcher T., Wolf L., Vitenzon A., Zheng D., **Götz M.**, Beebe D.C., Zavadil J., Cvekl A. (2013) Pax6 interactions with chromatin and identification of its novel direct target genes in lens and forebrain. *PLOS One* 8(1):e54507.

Decarolis N.A., Mechanic M., Petrik D., Carlton A., Ables J.L., Malhotra S., Bachoo R., **Götz M.**, Lagace D.C. and Eisch A.J. (2013) In vivo contribution of nestin- and GLAST-lineage cells to adult hippocampal neurogenesis. *Hippocampus* 23, 708 - 719.

## 2012

Cappello S., Böhringer C.R.J., Bergami M., Conzelmann K.-K., Ghanem A., Tomassy G.S., Arlotta P., Mainardi M., Allegra M., Caleo M., van Hengel J., Brakebusch C., and **Götz M.** (2012) A radial glia specific role of RhoA in double-cortex formation. *Neuron* 73, 911-924.

Karow M., Sanchez R., Schichor C., Masserdotti G., Ortega F., Heinrich C., Gascon S., Khan M., Lie C., Dellavalle A., Cossu G., Goldbrunner R., **Götz M.\*** and Berninger B.\* (2012) Reprogramming of pericyte-derived cells of the adult human brain into induced neuronal cells. *Cell Stem Cell* 11, 471-6.

Baumgart E.V., Barbosa J., Bally-Cuif L., **Götz M.** and Ninkovic J. (2012) Stab wound injury of the zebrafish telencephalon – a model for comparative analysis of reactive gliosis. *Glia* 60, 343-357.

Simon C., Lickert H., **Götz M.** and Dimou L. (2012) Sox10-iCreERT2: A Mouse Line to Inducibly Trace the NeuralCrest and Oligodendrocyte Lineage. *Genesis* 50, 506-15.

Marinero C., Pannese M., Weinandy F., Sessa A., Bergamaschi A., Taketo M.M., Broccoli V., Comi G., **Götz M.**, Martino G. and Muzio L. (2012) Wntsignaling has opposing roles in the developing and the adult brain that are modulated by Hipk1. *Cerebral Cortex* 24, 15-27.

Saulnier A., Keruzore M, De Clercq S., Bar I., Moers V., Magnani D., Walcher T., Filippis C., Kricha S., Parlier D., Viviani L., Matson C.K., Nakagawa Y., Theil T., **Götz M.**, Mallamaci A., Marine J.-C., Zarkower D. and Bellefroid E.J. (2012) The Doublesex Homolog Dmrt5 is Required for the Development of the Caudomedial Cerebral Cortex in Mammals. *Cerebral Cortex* 23, 2552-67.

Saab A.S., Neumeier A., Jahn H.M., Cupido A., Simek A.A.M., Boele H.-J., Scheller A., Le Meur K., **Götz M.**, Monyer H., Sprengel R., Rubio M.E., Deitmer J.W., De Zeeuw C.I. and Kirchhoff F. (2012) Bergmann Glial AMPA Receptors Are Required for Fine Motor Coordination. *Science* 337, 749-753.

Jafari M., Soerensen J., Bogdanovic R.M., Dimou L., **Götz M.** and Potschka H. (2012) Long-term genetic fate mapping of adult generated neurons in a mouse temporal lobe epilepsy model. *Neurobiology of Disease* 48, 454-463.

Ohlig S., Pickhinke U., Sirko S., Bandari S., Hoffmann D., Dreier R., Farshi P., **Götz M.** and Grobe K. (2012) An Emerging Role of Sonic hedgehog Shedding as a Modulator of Heparansulfate Interactions. *Journal of Biological Chemistry* 287, 43708-19.

#### 2011

Asami M., Pilz G.A., Ninkovic J., Godinho L., Schroeder T., Huttner W.B. and **Götz M.** (2011) The role of Pax6 in regulating the orientation and mode of cell division of progenitors in the mouse cerebral cortex. *Development* 138, 5067-5078.

Robel S., Bardehle S., Lepier A., Brakebusch C. and **Götz M.** (2011) Genetic deletion of Cdc42 reveals a crucial role for astrocyte recruitment to the injury site *in vitro* and *in vivo*. *Journal of Neuroscience* 31, 12471-82.

Blum R., Heinrich C., Sanchez R., Lepier A., Gundelfinger E.D., Berninger B. and **Götz M.** (2011) Neuronal network formation from reprogrammed rat cortical glial cells. *Cerebral cortex* 21, 413-424.

Fischer J., Beckervordersandforth R., Tripathi P., Steiner-Mezzadri A., Ninkovic J. and **Götz M.** (2011) Prospective isolation of adult neural stem cells from the mouse subependymal zone. *Nature Protocols* 6, 1981-1989.

Simon C., **Götz M.** and Dimou L. (2011) Progenitors in the adult cerebral cortex – cell cycle properties and regulation by physiological stimuli and injury. *Glia* 59, 869-881.



Ortega F., Costa M.R., Simon-Ebert T., Schroeder T., **Götz M.** and Berninger B (2011) Using an adherent cell culture of the mouse subependymal zone to study the behavior of adult neural stem cells on a single cell level. *Nature Protocols* 6, 1847-1859.

Costa M.R., Ortega F., Brill M.S., Beckervordersandforth R., Petrone C., Schroeder T., **Götz M.** and Berninger B. (2011) Continuous live imaging of adult neural stem cell division and lineage progression in vitro. *Development* 138, 1057-1068. **Highlighted by Faculty of 1000**

Heinrich C., Gascón S., Masserdotti G., Lepier A., Sanchez R., Simon-Ebert T., Schroeder T., **Götz M.** and Berninger B. (2011) Generation of subtype specific neurons from postnatal astroglia of the mouse cerebral cortex. *Nature Protocols* 6, 214 - 228.

Gampe K., Brill M.S., Momma S., **Götz M.** and Zimmermann H. (2011) EGF induces CREB and ERK activation at the wall of the mouse lateral ventricles. *Brain Research* 1376, 31 - 41.

Winpenny E., Lebel-Potter M., Fernandez M.E., Brill M.S., **Götz M.**, Guillemot F. and Raineteau O. (2011) Sequential generation of olfactory bulb glutamatergic neurons by Neurog2-expressing precursor cells. *Neural Development* 6, 12.

Rothenaignerl., Krecsmarik M., Hayes John A., Bahn B., Lepier A., Fortin G., **Götz M.**, Jagasia R. and Bally-Cuif L. (2011) Clonal analysis by distinct viral vectors identifies bona fide neural stem cells in the adult zebrafish telencephalon and characterizes their division properties and fate. *Development* 138, 1459-1469.

#### 2010

Beckervordersandforth R., Tripathi P., Ninkovic J., Bayam E., Lepier A., Stempfhuber B., Kirchhoff F., Hirrlinger J., Haslinger A., Chichung L. D., Beckers J., Yoder B., Irmeler M. and **Götz M.** (2010) In vivo fate mapping and expression analysis reveals unique molecular hallmarks of prospectively isolated adult neural stem cells. *Cell Stem Cell* 7, 744-58. **Highlighted by Faculty of 1000**

Ninkovic J., Pinto L., Petricca S., Lepier A., Sun J., Rieger M.A., Schroeder T., Cvekl A., Favor J. and **Götz M.** (2010) The transcription factor Pax6 regulates survival of dopaminergic olfactory bulb neurons via crystallin $\alpha$ . *Neuron* 68, 682-694.

Jawerka M., Colak D., Dimou L., Spiller C., Lager S., Montgomery R.L., Olson E.N., Wurst W., Göttlicher M. and **Götz M.** (2010) The specific role of histone deacetylase 2 in adult neurogenesis. *Neuron Glia Biology* 6, 93-107.

Heinrich C., Blum R., Tripathi P., **Götz M.\*** and Berninger B.\* (2010) Directing astroglia from the cerebral cortex into functional subtype-specific neurons. *PLOS Biology* 8(5):e1000373. **Highlighted by Nature.**

Kronenberg G., Gertz K., Cheung G., Buffo A., Kettenmann H., **Götz M.** and Endres M. (2010) Modulation of fate determinants Olig2 and Pax6 in resident glia evokes spiking neuroblasts in a model of mild brain ischemia. *Stroke* 41, 2944-2949.

Sirko S., von Holst A., Weber A., Wizenmann A., Theocaridis U., **Götz M.** and Faissner A. (2010) Chondroitin Sulfates are required for FGF-2-dependent proliferation and maintenance in neural stem cells and for EGF-dependent migration of their progeny. *Stem Cells* 28, 775-787.

Gajera C.R., Emich H., Lioubinski O., Christ A., Beckervordersandforth-Bonk R., Yoshikawa K., Bachmann S., Christensen E.I., **Götz M.**, Kempermann G., Peterson A.S., Willnow T.E. and Hammes A. (2010) LRP2 in ependymal cells regulates BMP signaling in the adult neurogenic niche. *Journal of Cell Science* 123, 1922-1930.

Mira H., Andreu Z., Suh H., Lie D.C., Jessberger S., Emeterio J.S., Hortigüela R., Marqués-Torrejón M.A., Nakashima K., Consiglio A., Colak D., **Götz M.**, Fariñas I. and Gage F.H. (2010) Signalling through BMPRIIA regulates quiescence and long-term activity of neural stem cells in the adult hippocampus. *Cell Stem Cell* 7, 78-89.

Lugert S., Basak O., Knuckles P., Haussler U., Fabel K., **Götz M.**, Haas C.A., Kempermann G., Taylor V. and Giachino C. (2010), Quiescent and active hippocampal neural stem cells with distinct morphologies respond selectively to physiological and pathological stimuli and ageing. *Cell Stem Cell* 6, 445-456.

Reddy-Alla S., Schmitt B., Birkenfeld J., Eulenburg V., Dutertre S., Böhringer C., **Götz M.**, Betz H. and Papadopoulos T. (2010) PH-Domain driven targeting of collybistin but not Cdc42 activation is required for synaptic gephyrin clustering. *European Journal of Neuroscience* 31, 1173-1184.

Dames P., Puff R., Weise M., Parhofer K.G., Göke B., **Götz M.**, Graw J., Favor J. and Lechner A. (2010) Relative roles of the different Pax6 domains for pancreatic alpha cell development. *BMC Developmental Biology* 10, 39.

2009

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