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Personal and Contact Information

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Education and Research Experience

from 07/2012 Assistant Professor; Neurobiology; Institute of Science and Technology Austria
(IST Austria), Klosterneuburg, Austria.
Molecular Mechanisms of Cerebral Cortex Development.

since 05/2011 Basic Life Sciences Research Associate; Dept. Biology, Stanford University, USA.
Genetic Mosaic Analysis of Neural Development.
(Mentor: Prof. L. Luo).

05/2006 - 04/2011 Postdoctoral Fellow; Dept. Biology, Stanford University, USA.
***Dissection of Molecular Mechanisms of Neuronal Circuit Assembly in the Mouse
Brain using Mosaic Analysis with Double Markers (MADM).***
(Mentor: Prof. L. Luo).

08/2004 - 04/2006 Postdoctoral Associate; Biozentrum, Dept. Cell Biology, University of Basel and
Friedrich Miescher Institute for Biomedical Research, Basel.
Role of ETS Transcription Factor ERM in Subs synaptic Gene Expression.
(Mentor: Prof. S. Arber).

07/2004 PhD in Neurobiology (*summa cum laude*).

04/2000 - 07/2004 PhD thesis; Biozentrum, Dept. Cell Biology, University of Basel and Friedrich
Miescher Institute for Biomedical Research, Basel.
***Molecular Mechanisms of Neuronal Circuit Assembly in the Vertebrate Spinal
Cord.*** (http://pages.unibas.ch/diss/2004/DissB_7098.pdf)
(Supervision: Prof. S. Arber).

10/1998 - 03/2000 Diploma thesis; Biozentrum, Dept. Biochemistry, University of Basel;
***Functional Analysis of Arc35p/End9p, the 35 kDa Subunit of the Arp2/3
Complex in Saccharomyces cerevisiae.***
(Supervision: Prof. H. Riezman).

10/1995 - 03/2000 Diploma studies in Bio II (Molecular Biology; Major: Biochemistry);
Biozentrum, University of Basel, Switzerland.

08/1991 - 12/1994 Matura Typus C (Natural Sciences), Gymnasium MuttENZ, Switzerland.

Awards & Honours

- 08/2010 Poster Presentation Award sponsored by Cell Press.
(Gordon Research Conference 'Neural Development', Newport, RI, USA)
- 07/2009 - 12/2011 Fellowship for Advanced Researchers
(Swiss National Science Foundation; Bern, Switzerland)
- 01/2007 - 06/2009 HFSP Long-Term Fellowship (HFSP; Strasbourg, France)
- 05/2006 - 12/2006 EMBO Long-Term Fellowship (EMBO; Heidelberg, Germany)
- 11/2005 Faculty Prize 2005 for the best PhD thesis of the year 2004
(Faculty of Natural Sciences, University of Basel, Switzerland)
- 09/2005 Edmond H. Fischer Prize 2005 for the best PhD thesis of the year 2004
(Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland)

Publications

Tasic, B.*, Miyamichi, K.*, **Hippenmeyer, S.***, Dani, VS., Zeng, H., Joo, W., Zong, H., Chen-Tsai, Y. & Luo, L. (2011). Extensions of MADM (Mosaic Analysis with Double Markers) in mice. (*equal contribution). *submitted*.

Liu, C., Sage, JC.*, Miller, MR.*, Verhaak, RGW.*, **Hippenmeyer, S.**, Vogel, H., Foreman, O., Bronson, RT., Nishiyama, A., Luo, L. & Zong, H. (2011). Mosaic Analysis with Double Markers Reveals Tumor Cell of Origin in Glioma. (*equal contribution). *Cell*, **146** (2): 209-21.

Evaluated by Faculty of 1000: <http://f1000.com/13339991>.

Preview by Sukhdeo, K., Hambardzumyan, D. & Rich, JN. (2011). Glioma Development: Where Did It All Go Wrong? *Cell* **146** (2): 187-8.

Commentary by Alderton, GK. (2011). Tumorigenesis - The Origins of Glioma. *Nature Reviews Cancer* **11** (9): 628.

Tasic, B., **Hippenmeyer, S.**, Wang, C., Zong, H., Chen-Tsai, Y. & Luo, L. (2011). Site-Specific Integrase-Mediated Transgenesis in Mice via Pronuclear Injection. *Proceedings of the National Academy of Sciences of the United States of America* **108** (19): 7902-7.

Evaluated by Faculty of 1000: <http://f1000.com/10361956>.

Commentary by J. Rossant, LMJ. Nutter & M. Gertsenstein (2011). Engineering the embryo. *Proceedings of the National Academy of Sciences of the United States of America* **108** (19): 7659-60.

Hippenmeyer, S.*, Youn, YH., Moon, HM., Miyamichi, K., Zong, H., Wynshaw-Boris, A. & Luo, L.* (2010). Genetic Mosaic Dissection of *Lis1* and *Ndel1* in Neuronal Migration. (*co-corresponding authors). *Neuron* **68** (4): 695-709.

Evaluated by Faculty of 1000: <http://f1000.com/6538956>.

Hippenmeyer, S.*, Huber, RM.*, Ladle, DR., Murphy, K. & Arber S. (2007). ETS Transcription Factor *Erm* Controls Subsynaptic Gene Expression in Skeletal Muscles. (*equal contribution). *Neuron* **55**(5): 726-40.

Evaluated by Faculty of 1000: <http://f1000.com/1092820>.

Hippenmeyer, S., Vrieseling, V., Sigrist, M., Portmann, T., Laengle, C., Ladle, DR. & Arber, S. (2005). A Developmental Switch in the Response of DRG Neurons to ETS Transcription Factor Signaling. *PLoS Biology* **3**(5): e159.

Publications continued

Rodal, AA.*, Sokolova, O.*, Robins, DB., Daugherty, KM., **Hippenmeyer. S**, Riezman, H., Grigorieff, N. & Goode, BL. (2005). Conformational Changes in the Arp2/3 Complex Leading to Actin Nucleation. (*equal contribution). *Nature Structural & Molecular Biology* 12(1): 26-31.

Cover story with accompanying editorial comment.

Hippenmeyer, S.*, Kramer, I.* & Arber, S. (2004) Control of Neuronal Phenotype: What Targets Tell the Cell Bodies. (*equal contribution). *Trends in Neurosciences* 27(8): 482-8.

Chen, HH., **Hippenmeyer, S.**, Arber, S. & Frank, E. (2003). Development of the Monosynaptic Stretch Reflex Circuit. *Current Opinion in Neurobiology* 13(1): 96-102.

Hippenmeyer, S., Shneider, NA., Birchmeier, C., Burden, SJ., Jessell, TM. & Arber, S. (2002). A Role for *Neuregulin1* Signaling in Muscle Spindle Differentiation. *Neuron* 36(6): 1035-49.

Scientific Communications

S. Hippenmeyer & L. Luo (2011). Collection of 14 representative images generated with ‘MADM’ (Mosaic Analysis with Double Markers) technology. *Biology Image Library, BioMed Central Ltd (Part of Springer Science+Business Media)*. (<http://www.biologyimagelibrary.com>).

S. Hippenmeyer & S. Arber (2008). Collection of 23 images and illustrations on ‘Neuronal Circuit Assembly in the Vertebrate Spinal Cord’. *Biology Image Library, BioMed Central Ltd (Part of Springer Science+Business Media)*. (<http://www.biologyimagelibrary.com>).

Patents

U.S. Patent Application (61/413,257) for ‘Site-Directed Integration of Transgenes in Mammals’.
Co-Inventor - S08-363.