

## CURRICULUM VITAE

Gerhard Schratt, PhD

### PERSONAL

Date of Birth: July 4, 1972  
Place of Birth: Oberstdorf, Germany  
Email: [schratt@ana.uni-heidelberg.de](mailto:schratt@ana.uni-heidelberg.de)

### EDUCATION

1992-1998 Study in biochemistry, University of Tuebingen, Germany  
1998 Diploma in biochemistry from the University of Tuebingen, Germany. Grade: very good (A)  
2001 PhD graduation in biology from the University of Tuebingen, Germany. Grade: summa cum laude.

### EXPERIENCE

1996-1997 Internship at the Max-Planck-Institute for Biochemistry, Martinsried, Germany  
1997-1998 Diploma thesis in the laboratory of Prof. Nordheim at the Interdisciplinary Institute of Cell Biology, Tuebingen, Germany  
1998-2001 PhD graduate work in the laboratory of Prof. Nordheim at the Interdisciplinary Institute of Cell Biology, Tuebingen, Germany, "Proliferation, differentiation and cytoskeletal structure of SRF-deficient murine embryonic stem cells."  
2001-2002 Post-doctoral research in the laboratory of Prof. Nordheim at the Interdisciplinary Institute of Cell Biology, Tuebingen, Germany  
2002-2006 Post-doctoral research in the laboratory of Prof. Greenberg at the Division of Neuroscience, Children's Hospital, and Department of Neurobiology, Harvard Medical School, Boston, USA  
2006 Junior Group Leader at the Collaborative Research Center (SFB488), Interdisciplinary Center for Neurosciences, Neuroanatomy, University of Heidelberg

### AWARDS

2001 Elisabeth-Gateff-Award from the German Society for Genetics (GfG) for an outstanding PhD thesis in the area of Genetics.  
2002-2005 Long-term fellowship from the Human Frontier Science Program Organization (HFSPO) for post-doctoral training.  
2005-2006 Post-doctoral fellowship of the Charles H. Hood Foundation  
2006 Career Development Award (CDA) from the Human Frontier Science Program

## PUBLICATION LIST Gerhard Schratt

Journal articles: (\* equal contribution)

- Gazda HT, Grabowska A, Merida-Long LB, Latawiec E, Schneider HE, Lipton JM, Vlachos A, Atsidaftos E, Ball SE, Orfali KA, Niewiadomska E, Da Costa L, Tchernia G, Niemeyer C, Meerpohl JJ, Stahl J, Schratt G, Glader B, Backer K, Wong C, Nathan DG, Beggs AH, Sieff CA. Ribosomal protein S24 is mutated in Diamond-Blackfan anemia. *Am J Hum Genet.* 2006 Dec;79(6):1110-8.
- Schratt G, Tuebing F, Nigh EA, Kane CG, Sabatini ME, Kiebler M and Greenberg ME. A brain-specific microRNA regulates dendritic spine development. *Nature (Article)*, 439(7074):283-9.
- Philippar U\*, Schratt G\*, Dieterich C, Mueller J., Galgoczy P, Engel F, Keating M, Gertler F, Schuele R, Vingron M and Nordheim A (2004). The novel SRF target gene *Fhl2* antagonizes RhoA/MAL-dependent activation of SRF, *Mol. Cell* 16(6):867-80.
- Schratt G\*, Nigh EA\*, Chen WG, Hu L, Greenberg ME. (2004b). BDNF regulates the translation of a select group of mRNAs by a mammalian target of rapamycin-phosphatidylinositol 3-kinase-dependent pathway during neuronal development. *J Neurosci.* 24(33):9366-77.  
Reviewed in: Wood H. (2004). Found in translation. *Nature Reviews Neuroscience* 5(10):doi:10.1038/nrn1522
- Schratt G\*, Philippar U\*, Hockemeyer D, Schwarz H, Alberti S, Nordheim A. (2004a). SRF regulates Bcl-2 expression and promotes cell survival during murine embryonic development. *EMBO J.* 23(8):1834-44.
- Schuck S, Soloaga A, Schratt G, Arthur JS, Nordheim A. (2003). The kinase MSK1 is required for induction of c-fos by lysophosphatidic acid in mouse embryonic stem cells. *BMC Mol Biol.* 4(1):6.
- Wang DZ, Li S, Hockemeyer D, Sutherland L, Wang Z, Schratt G, Richardson JA, Nordheim A, Olson EN. (2002). Potentiation of serum response factor activity by a family of myocardin-related transcription factors. *Proc Natl Acad Sci U S A.* 99(23):14855-60.
- Schratt G, Philippar U, Berger J, Schwarz H, Heidenreich O, Nordheim A. (2002). Serum response factor is crucial for actin cytoskeletal organization and focal adhesion assembly in embryonic stem cells. *J Cell Biol.* 156(4):737-50.
- Schratt G\*, Weinhold B\*, Lundberg AS, Schuck S, Berger J, Schwarz H, Weinberg RA, Ruther U, Nordheim A. (2001). Serum response factor is required for immediate-early gene activation yet is dispensable for proliferation of embryonic stem cells. *Mol Cell Biol.* 21(8):2933-43.
- Weinhold B\*, Schratt G\*, Arsenian S, Berger J, Kamino K, Schwarz H, Ruther U, Nordheim A. (2000). Srf(-/-) ES cells display non-cell-autonomous impairment in mesodermal differentiation. *EMBO J.* 19(21):5835-44.
- Heidenreich O, Neininger A, Schratt G, Zinck R, Cahill MA, Engel K, Kotlyarov A, Kraft R, Kostka S, Gaestel M, Nordheim A. (1999). MAPKAP kinase 2 phosphorylates serum response factor in vitro and in vivo. *J Biol Chem.* 274(20):14434-43.

**Manuscript submitted:**

Siegel G., Obernosterer G., Fiore R., Rehmsmeier M., Hübel K., Christensen M., Kauppinen S., Waldmann H., Greenberg M.E., Martinez J. and **Schratt G.**  
A functional microRNA screen implicates miR-138-dependent regulation of the depalmitoylation enzyme APT1 in dendritic spine morphogenesis. Submitted.

**Review article:**

**Schratt G.** (2002). Der Transkriptionsfaktor SRF. *Biospektrum* 8(1):66-7.

**Schratt G.** and Greenberg M.E. MicroRNA function in the nervous system. In: *MicroRNAs: From Basic Science to Disease Biology*, ed. Krishnarao Appasani. Cambridge University Press, in press.

Fiore R. and **Schratt G.** (2007) microRNAs in vertebrate synapse development. *The Scientific World Journal* 7: 167-77.

Fiore R. and **Schratt G.** (2007) microRNAs in synapse development: Tiny molecules to remember? *Expert Opinion in Biological Therapies* 7(12): 1823-31.

Satterlee, J., Barbee, S., Jin, P., Krichevsky, A., Salama, S., **Schratt, G.** and Wu, D.Y. (2007) Non-coding RNAs in the Brain. *J. Neurosci* 27(44): 11856-9.

Fiore R., Siegel G. and Schratt G. microRNA function in neuronal development, plasticity and disease. *BBA - Gene Regulatory Mechanisms*, in press.

**INVITED TALKS**

RNAi Europe 2006, Cambridge, UK, Nov 1-2 2006, Invited Speaker

EBI Industry Programme Workshop on microRNA, Cambridge, UK, Feb 7-8 2007, Invited Speaker

Gordon Research Conference "Dendrites", Ventura, USA, Mar 18-23 2007, Short talk

Microsymposium on Small RNAs, Vienna, Austria, May 21-23 2007, Invited Speaker

Nobel prize 2006 Meeting, Copenhagen, Denmark, May 30 2007, Invited Speaker

Annual Meeting of the Society for Neurosciences, Minisymposium "Noncoding RNAs in the Brain", San Diego, USA, Nov 3-7 2007, Invited Speaker

Annual Meeting of the Society for Neurosciences, Short Course "Inhibitory RNAs in Neuroscience", San Diego, USA, Nov 2 2007, Invited Speaker