

Curriculum Vitae**Name**

Samantha Ann Spangler

Born

November 15, 1981, Charlotte, NC, USA

Education

2003

BS (Biology, minor: Chemistry)
 College of Arts and Sciences, University of North Carolina at
 Chapel Hill, Chapel Hill, NC, USA

2006

MS (Neuroscience)
 Department of Neuroscience, Erasmus MC, Rotterdam, The
 Netherlands

Positions held

2001

Undergraduate student.
 Endocrinology Branch, Reproductive Toxicology Division.
 United States Environmental Protection Agency. (Dr.
 Michael G. Narotsky)

2001-2002

Undergraduate student.
 Department of Biochemistry and Biophysics, University of
 North Carolina at Chapel Hill. (Dr. Patricia F. Maness)

2002-2003

Undergraduate student.
 Neuroscience Center, University of North Carolina at Chapel
 Hill. (Dr. Eva S. Anton)

2003-2005

Research Technician.
 Picower Institute for Learning and Memory, Department
 of Brain and Cognitive Sciences, Massachusetts Institute of
 Technology. (Dr. Morgan Sheng)

2005-Present

PhD Student.
 Department of Neuroscience, Erasmus MC. (Dr. Casper C.
 Hoogenraad)

2009

Visiting PhD Student.
 Department of Chemistry and Biochemistry, University of
 California at San Diego. (Dr. Terunaga Nakagawa)

List of Publications

1. Jaworski J, **Spangler S**, Seeburg DP, Hoogenraad CC, Sheng M. Control of dendritic arborization by the phosphoinositide-3'-kinase-Akt-mammalian target of rapamycin pathway. *J Neurosci*. 2005 Dec 7;25(49):11300-12.
2. Hoogenraad CC, Feliu-Mojer MI, **Spangler SA**, Milstein AD, Dunah AW, Hung AY, Sheng M. Liprin- α 1 degradation by calcium/calmodulin-dependent protein kinase II regulates LAR receptor tyrosine phosphatase distribution and dendrite development. *Dev Cell*. 2007 Apr;12(4):587-602.
3. **Spangler SA**, Hoogenraad CC. Liprin- α proteins: scaffold molecules for synapse maturation. *Biochem Soc Trans*. 2007 Nov;35(Pt 5):1278-82. Review.
4. Jaworski J, Kapitein LC, Gouveia SM, Dortland BR, Wulf PS, Grigoriev I, Camera P, **Spangler SA**, Di Stefano P, Demmers J, Krugers H, Defilippi P, Akhmanova A, Hoogenraad CC. Dynamic microtubules regulate dendritic spine morphology and synaptic plasticity. *Neuron*. 2009 Jan 15;61(1):85-100.
5. **Spangler SA**, Schmitz SK, Jaarsma D, de Graaff E, Sheng M, Toonen RF, Hoogenraad CC. Liprin- α 2 influences presynaptic plasticity by targeting CASK and RIM. *Submitted*.
6. Malik A, Urbanska M, Macias M, **Spangler SA**, Sheng M, Jaworski J. p70S6K is not sufficient for control of dendritic arborization of hippocampal neurons. *Submitted*.
7. **Spangler SA**, Grigoriev I, de Graaff E, Demmers J, Akhmanova A, Hoogenraad CC. Local upregulation of liprin- α 1 causes depletion of presynaptic bassoon. *Submitted*.

Scientific Meetings Attended

April, 2006	7 th Joint MGC-Cancer Research UK Graduate Student Conference, Oxford, United Kingdom
June, 2007	6 th Dutch Endo-Neuro-Psycho Meeting, Doorwerth, The Netherlands
August, 2007	2 nd Westerburg Symposium on “Molecular Dynamics of the Chemical Synapse,” Westerburg, Germany (poster presentation)
March, 2008	SILS-CNS Masterclass, Amsterdam, The Netherlands (oral presentation)
June, 2008	7 th Dutch Endo-Neuro-Psycho Meeting, Doorwerth, The Netherlands
July, 2008	6 th FENS Forum of European Neurosciences, Geneva, Switzerland (poster presentation)
November, 2008	38 th Society for Neuroscience Annual Meeting, Washington, DC, USA (oral presentation)
May, 2009	10 th Anniversary of the International Institute of Molecular and Cell Biology, Warsaw, Poland (oral presentation)