

# LISA WALTER



## PERSONAL DATA:

Name: Lisa Ann Walter  
Date of Birth: July 12, 1977  
Place of Birth: Los Gatos, California, USA  
Address: Cologne, Germany  
Email: [biosc015.walter@gmail.com](mailto:biosc015.walter@gmail.com)

## EDUCATION:

Harvey Mudd College, Claremont, California	B.S.	05/1999	Physics
University of Washington, Seattle, Washington	Ph.D.	06/2004	Pharmacology

## PROFESSIONAL EXPERIENCE:

1998-1999 Research Assistant in Biophysics, Harvey Mudd College, Claremont, CA, and in Neurobiology, Utah State University, Logan, UT  
Principle Investigators: James Groome, Ph.D., and Peter Ruben, Ph.D.  
*Examine effects of point mutations on voltage gated sodium channels*

1999-2004 Graduate Student in Pharmacology, University of Washington, Seattle, WA  
Principle Investigator: Nephi Stella, Ph.D.  
*Characterize endocannabinoid signaling system in astrocytes and microglia*

2004-2007 Postdoctoral Fellow in Immunology, Pasteur Institute, Paris, France  
Principle Investigator: Matthew Albert, M.D., Ph.D.  
*Investigate mechanisms of antigen presentation in central nervous system disease*

2008-2010 Program Coordinator, University of Cologne, Cologne, Germany  
*Manage Ph.D. pharmacology program in collaboration with Bayer Health Care AG*

2011-Present Editor, Context GmbH, Cologne, Germany

## GRANTS/FELLOWSHIPS:

2000-2003 Molecular and Cellular Biology Training Grant, National Institutes of General Medical Sciences, NIH, PHS NRSA T32 GM07270

2004-2005 Frank Howard Fellowship, Pasteur Institute

2005-2007 European Molecular Biology Organization (EMBO) Long-Term Fellowship

## PUBLICATIONS IN PEER-REVIEWED JOURNALS:

Groome J, Fujimoto E, **Walter L**, and Ruben P. (2002) Outer and central charged residues in DIVS4 of skeletal muscle sodium channels have differing roles in deactivation. *Biophys J* 82: 1293-307.

**Walter L**, Franklin A, Witting A, Moller T, and Stella N. (2002) Astrocytes in culture produce anandamide and other acylethanolamides. *J Biol Chem* 277: 20869-76.

**Walter L**, Franklin A, Witting A, Wade C, Xie Y, Kunos G, Mackie K, and Stella N. (2003) Nonpsychotropic cannabinoid receptors regulate microglial cell migration. *J Neurosci* 23: 1398-405.

Franklin A, Parmentier-Batteur S, **Walter L**, Greenberg DA, and Stella N. (2003) Palmitoylethanolamide increases after focal cerebral ischemia and potentiates microglial cell motility. *J Neurosci* 23: 7767-75.

**Walter L** and Stella N. (2003) Endothelin-1 increases 2-arachidonoyl glycerol (2-AG) production in astrocytes. *Glia* 44: 85-90.

- Witting A, **Walter L**, Wacker J, Moller T, and Stella N. (2004) P2X<sub>7</sub> receptors control 2-arachidonoylglycerol production by microglial cells. *Proc Natl Acad Sci*. 101: 3214-9.
- Walter L**, Dinh T, and Stella N. (2004) ATP induces a rapid and pronounced increase in 2-arachidonoylglycerol production by astrocytes, a response limited by monoacylglycerol lipase. *J Neurosci*. 24: 8068-74.
- Witting A, Chen L, Cudaback E, Straiker A, **Walter L**, Rickman B, Moller T, Brosnan C, and Stella N. (2006) Experimental autoimmune encephalomyelitis disrupts endocannabinoid-mediated neuroprotection. *Proc Natl Acad Sci*. 103: 6362-7.
- Walter L** and Albert ML. (2007) Cutting edge: cross-presented intracranial antigen primes CD8<sup>+</sup> T cells. *J Immunol*. 178: 6038-42.

#### **REVIEWS:**

- Walter L** and Stella N. (2004) Cannabinoids and neuroinflammation. *Br J Pharmacol*. 141: 775-85.
- Walter L** and Neumann H. (2009) Role of microglia in neuronal degeneration and regeneration. *Semin Immunopathol*. 31: 513-25.

#### **BOOK CHAPTER:**

- Walter L** and Albert ML. (2010) CD8<sup>+</sup> T cell-mediated autoimmune diseases of the CNS. In Inflammatory Diseases of the Central Nervous System. Kilpatrick T, Ransohoff RM, and Wesselingh S, Eds. Cambridge University Press: 87-96.

#### **TEXTBOOK TRANSLATIONS:**

- Yon-Kahn J & Herve G. (2010) Molecular and Cellular Enzymology, Volumes 1 and 2. Springer.

#### **TEACHING EXPERIENCE:**

- 2000-2001 Teaching Assistant in Pharmacology, University of Washington, Seattle, WA
- 2000-2004 Health and Safety Instructor, American Red Cross, Seattle, WA
- 2004 Teaching Assistant in Neurobiology, University of Washington, Seattle, WA
- 2008-Present Associate Faculty in Biological Sciences, Mission College, Santa Clara, CA
- 2011-Present Adjunct Lecturer in Applied Biology, Bonn-Rhine-Sieg University of Applied Sciences, Rheinbach, Germany