Stanford

Steven Lee Mcintire

Clinical Associate Professor, Adult Neurology

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Clinic**
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Bio

BIO

Dr. McIntire earned his MD from Harvard Medical School and his PhD in Neuroscience from Harvard University, where he was awarded a Frank Knox Memorial Fellowship and Carl Walter Fellowship. He then completed Neurology residency training at UCSF. He is board certified in Neurology by the American Board of Psychiatry and Neurology. He has been named a Robert Ebert Clinical Scholar and Culpepper Medical Science Scholar. Dr. McIntire has published extensively in the fields of molecular neurobiology and neurogenetics.

Dr. McIntire's interests are in general/comprehensive neurology. He is also interested in medical education and the training of medical students and neurology residents.

CLINICAL FOCUS

- Neurology
- Comprehensive/General Neurology

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Adult Neurology

HONORS AND AWARDS

- Honors, Stanford University, Biology (1982)
- Carl Walter Memorial Fellow, Harvard Medical School (1984-1985)
- Frank Knox Memorial Fellow, Harvard Medical School (1985-1986)
- MSTP Scholar, Harvard Medical School (1984-1992)
- Clinical Investigator Development Award, NINDS (1996-2001)
- Basil O'Connor Award, March of Dimes (1997-1999)
- Klingenstein Award, Klingenstein Foundation (1998-2001)
- Rober H. Ebert Clinical Scholar, Klingenstein Foundation (1998-2001)

- Medical Science Scholar Award, Charles E. Culpeper Foundation (1998-2002)

PROFESSIONAL EDUCATION

- Residency: UCSF Dept of Neurology (1996) CA
- Board Certification: Neurology, American Board of Psychiatry and Neurology (1998)
- Internship: The Malden Hospital (1993) MA
- Medical Education: Harvard Medical School (1992) MA
- Board Certification, American Board of Psychiatry and Neurology , Neurology (1998)
- Residency, UCSF Medical Center , Neurology (1996)
- Internship, Malden Hospital , Medicine (1993)
- Medical Education, Harvard Medical School (1992)
- Ph.D., Harvard Medical School , Neuroscience (1992)
- MS, Stanford University , Biology (1982)
- BS, Stanford University , Biology (1981)

LINKS

- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Publications

PUBLICATIONS

- **A Caenorhabditis elegans p38 MAP kinase pathway mutant protects from dopamine, methamphetamine, and MDMA toxicity** *NEUROSCIENCE LETTERS*
  Schreiber, M. A., McIntire, S. L.
  2011; 498 (1): 99-103

- **A Novel zf-MYND Protein, CHB-3, Mediates Guanylyl Cyclase Localization to Sensory Cilia and Controls Body Size of Caenorhabditis elegans** *PLOS GENETICS*
  Fujiwara, M., Teramoto, T., Ishihara, T., Ohshima, Y., McIntire, S. L.
  2010; 6 (11)

- **Conserved Role of unc-79 in Ethanol Responses in Lightweight Mutant Mice** *PLOS GENETICS*
  Speca, D. J., Chihara, D., Ashique, A. M., Bowers, M. S., Pierce-Shimomura, J. T., Lee, J., Rabbee, N., Speed, T. P., Gularte, R. J., Chitwood, J., Medrano, J. F., Liao, M., Sonner, et al
  2010; 6 (8)

- **Manipulation of Behavioral Decline in Caenorhabditis elegans with the Rag GTPase raga-1** *PLOS GENETICS*
  Schreiber, M. A., Pierce-Shimomura, J. T., Chan, S., Parry, D., McIntire, S. L.
  2010; 6 (5)

- **Ethanol.** *WormBook : the online review of C. elegans biology*
  McIntire, S. L.
  2010: 1-6

- **The Dystrophin Complex Controls BK Channel Localization and Muscle Activity in Caenorhabditis elegans** *PLOS GENETICS*
  Kim, H., Pierce-Shimomura, J. T., Oh, H. J., Johnson, B. E., Goodman, M. B., McIntire, S. L.
  2009; 5 (12)

- **Ethanol preference in C-elegans** *GENES BRAIN AND BEHAVIOR*
  Lee, J., Jee, C., McIntire, S. L.
  2009; 8 (6): 578-585

- **Genetic analysis of crawling and swimming locomotory patterns in C. elegans** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Pierce-Shimomura, J. T., Chen, B. L., Mun, J. J., Ho, R., Sarkis, R., McIntire, S. L.
  2008; 105 (52): 20982-20987
- **Loss of RAB-3/A in Caenorhabditis elegans and the mouse affects behavioral response to ethanol** *GENES BRAIN AND BEHAVIOR*
  Kapfhamer, D., Bettinger, J. C., Davies, A. G., Eastman, C. L., Smail, E. A., Heberlein, U., McIntire, S. L.
  2008; 7 (6): 669-676
- **The G-protein-coupled serotonin receptor SER-1 regulates egg laying and male mating behaviors in Caenorhabditis elegans** *JOURNAL OF NEUROSCIENCE*
  Carnell, L., Illi, J., Hong, S. W., McIntire, S. L.
  2005; 25 (46): 10671-10681
- **State-dependancy in C-elegans** *GENES BRAIN AND BEHAVIOR*
  Bettinger, J. C., McIntire, S. L.
  2004; 3 (5): 266-272
- **SNF-6 is an acetylcholine transporter interacting with the dystrophin complex in Caenorhabditis elegans** *NATURE*
  Kim, H., Rogers, M. J., Richmond, J. E., McIntire, S. L.
  2004; 430 (7002): 891-896
- **Natural variation in the npr-1 gene modifies ethanol responses of wild strains of C. elegans** *NEURON*
  Davies, A. G., Bettinger, J. C., Thiele, T. R., Judy, M. E., McIntire, S. L.
  2004; 42 (5): 731-743
- **Using C. elegans to screen for targets of ethanol and behavior-altering drugs.** *Biological procedures online*
  Davies, A. G., McIntire, S. L.
  2004; 6: 113-119
- **The use of Caenorhabditis elegans in molecular neuropharmacology** *INTERNATIONAL REVIEW OF NEUROBIOLOGY, VOL 62*
  Bellinger, J. C., Carnell, L., Davies, A. G., McIntire, S. L.
  2004; 62: 195-212
- **A central role of the BK potassium channel in behavioral responses to ethanol in C-elegans** *CELL*
  Davies, A. G., Pierce-Shimomura, J. T., Kim, H., VanHoven, M. K., Thiele, T. R., Bonci, A., Bargmann, C. I., McIntire, S. L.
  2003; 115 (6): 655-666
- **Regulation of body size and behavioral state of C-elegans by sensory perception and the EGL-4 cGMP-dependent protein kinase** *NEURON*
  Fujiwara, M., Sengupta, P., McIntire, S. L.
  2002; 36 (6): 1091-1102
- **A family of yeast proteins mediating bidirectional vacuolar amino acid transport** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Russnak, R., Konczal, D., McIntire, S. L.
  2001; 276 (26): 23849-23857
- **Identification and characterization of the vesicular GABA transporter** *NATURE*
  McIntire, S. L., Reimer, R. J., Schuske, K., Edwards, R. H., Jorgensen, E. M.
  1997; 389 (6653): 870-876
- **THE GABAERGIC NERVOUS-SYSTEM OF CAENORHABDITIS-ELEGANS** *NATURE*
  McIntire, S. L., Jorgensen, E., Kaplan, J., Horvitz, H. R.
  1993; 364 (6435): 337-341
- **GENES REQUIRED FOR GABA FUNCTION IN CAENORHABDITIS-ELEGANS** *NATURE*
  McIntire, S. L., Jorgensen, E., Horvitz, H. R.
  1993; 364 (6435): 334-337
- **GENES NECESSARY FOR DIRECTED AXONAL ELONGATION OR FASCICULATION IN C-ELEGANS** *NEURON*
  McIntire, S. L., Garriga, G., WHITE, J., Jacobson, D., Horvitz, H. R.

1992; 8 (2): 307-322

- **A GENETIC PATHWAY FOR THE DEVELOPMENT OF THE CAENORHABDITIS-ELEGANS HSN MOTOR NEURONS** *NATURE*
  Desai, C., Garriga, G., McIntire, S. L., Horvitz, H. R.
  1988; 336 (6200): 638-646
- **HYPOTHALAMIC CATECHOLAMINE CHANGES UNDER ACUTE STRESS OCCUR INDEPENDENTLY OF NICOTINIC STIMULATION** *NEUROSCIENCE LETTERS*
  Roth, K. A., McIntire, S. L., Lorenz, R. G., BARCHAS, J. D.
  1982; 28 (1): 47-50
- **NICOTINIC-CATECHOLAMINERGIC INTERACTIONS IN RAT-BRAIN - EVIDENCE FOR CHOLINERGIC NICOTINIC AND MUSCARINIC INTERACTIONS WITH HYPOTHALAMIC EPINEPHRINE** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
  Roth, K. A., McIntire, S. L., BARCHAS, J. D.
  1982; 221 (2): 416-420