




## Lorelei Shoemaker

Research Scientist, Neurosurgery

 NIH Biosketch available Online

### Bio

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#### INSTITUTE AFFILIATIONS

- Member (Staff), Cardiovascular Institute

#### HONORS AND AWARDS

- Institute for Biodiagnostics Award for Science Education, Institute for Biodiagnostics (1995)
- Graduate Division Fellowship, UCLA (2001-2002)
- Dr. Ursula Mandel Scholarship, UCLA (2002-2004)
- UCLA Affiliates Hortense Fishbaugh Memorial Scholar, UCLA (2004-2005)
- Phi Beta Kappa (Alpha Association) International Scholarship, Phi Beta Kappa (2004-2005)
- Corine Tyler Walker Prize, Campbell Student Book Collection Competition, UCLA (2005)
- Graduate Division Dissertation Year Fellowship, UCLA (2005-2006)
- William Randolph Hearst Fund Postdoctoral Award, Harvard Medical School (2008)

#### EDUCATION AND CERTIFICATIONS

- Ph.D., UCLA , Neuroscience Interdisciplinary Program (2006)
- Bachelor of Science, University of Winnipeg , Chemistry (1990)

#### SERVICE, VOLUNTEER, AND COMMUNITY WORK

- Science Fair Judge (4/9/2012)
- Innovation Farm Team member (4/9/2012)
- Board Member (2019)

### Professional

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#### PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member, American Society for Mass Spectrometry (2002 - present)
- Member, North American Vascular Biology Organization (2012 - present)

### Publications

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#### PUBLICATIONS

- **Editorial: Brain arteriovenous malformations: cerebrovasculature behaving badly.** *Frontiers in human neuroscience*

- Shoemaker, L. D., Daneman, R., Stoodley, M. A.  
2023; 17: 1212184
- **Evidence for endothelial-to-mesenchymal transition in human brain arteriovenous malformations.** *Clinical and translational medicine*  
Shoemaker, L. D., McCormick, A. K., Allen, B. M., Chang, S. D.  
2020
  - **Neural Stem Cells (NSCs) and Proteomics.** *Molecular & cellular proteomics*  
Shoemaker, L. D., Kornblum, H. I.  
2016; 15 (2): 344-354
  - **Disease Variant Landscape of a Large Multiethnic Population of Moyamoya Patients by Exome Sequencing** *G3-GENES GENOMES GENETICS*  
Shoemaker, L. D., Clark, M. J., Patwardhan, A., Chandratillake, G., Garcia, S., Chen, R., Morgan, A. A., Leng, N., Kirk, S., Chen, R., Cook, D. J., Snyder, M., Steinberg, et al  
2016; 6 (1): 41-49
  - **Disease Variant Landscape of a Large Multiethnic Population of Moyamoya Patients by Exome Sequencing.** *G3 (Bethesda, Md.)*  
Shoemaker, L. D., Clark, M. J., Patwardhan, A., Chandratillake, G., Garcia, S., Chen, R., Morgan, A. A., Leng, N., Kirk, S., Chen, R., Cook, D. J., Snyder, M., Steinberg, et al  
2015; 6 (1): 41-49
  - **Human brain arteriovenous malformations express lymphatic-associated genes** *ANNALS OF CLINICAL AND TRANSLATIONAL NEUROLOGY*  
Shoemaker, L. D., Fuentes, L. F., Santiago, S. M., Allen, B. M., Cook, D. J., Steinberg, G. K., Chang, S. D.  
2014; 1 (12): 982-995
  - **Immune response profiling identifies autoantibodies specific to Moyamoya patients** *ORPHANET JOURNAL OF RARE DISEASES*  
Sigdel, T. K., Shoemaker, L. D., Chen, R., Li, L., Butte, A. J., Sarwal, M. M., Steinberg, G. K.  
2013; 8
  - **Clinical Neuroproteomics and Biomarkers: From Basic Research to Clinical Decision Making** *NEUROSURGERY*  
Shoemaker, L. D., Achrol, A. S., Sethu, P., Steinberg, G. K., Chang, S. D.  
2012; 70 (3): 518-525
  - **Potential application of hydrogen in traumatic and surgical brain injury, stroke and neonatal hypoxia-ischemia.** *Medical gas research*  
Eckermann, J. M., Krafft, P. R., Shoemaker, L., Lieberson, R. E., Chang, S. D., Colohan, A.  
2012; 2 (1): 11-?
  - **Untangling the cortex: Advances in understanding specification and differentiation of corticospinal motor neurons** *BIOESSAYS*  
Shoemaker, L. D., Arlotta, P.  
2010; 32 (3): 197-206
  - **Identification of Differentially Expressed Proteins in Murine Embryonic and Postnatal Cortical Neural Progenitors** *PLOS ONE*  
Shoemaker, L. D., Orozco, N. M., Geschwind, D. H., Whitelegge, J. P., Faull, K. F., Kornblum, H. I.  
2010; 5 (2)
  - **Maternal embryonic leucine zipper kinase is a key regulator of the proliferation of malignant brain tumors, including brain tumor stem cells** *JOURNAL OF NEUROSCIENCE RESEARCH*  
Nakano, I., Masterman-Smith, M., Saigusa, K., Paucar, A. A., Horvath, S., Shoemaker, L., Watanabe, M., Negro, A., Bajpai, R., Howes, A., Lelievre, V., Waschek, J. A., Lazareff, et al  
2008; 86 (1): 48-60
  - **An Introduction to the Basic Principles and Concepts of Mass Spectrometry** *Protein Mass Spectrometry in Comprehensive Analytical Chemistry Series*  
Faull KF, Dooley AN, Halgand F, Shoemaker LD, Norris A, Ryan CM, Laganowsky A, Johnson JV, Katz JE  
2008; 52
  - **Report on the workshop "New Technologies in Stem Cell Research," Society for Pediatric Research, San Francisco, California, April 29, 2006.** *Stem cells*  
Cheng, J. C., Horwitz, E. M., Karsten, S. L., Shoemaker, L., Kornblum, H. I., Malik, P., Sakamoto, K. M.

2007; 25 (4): 1070-1088

- **Introduction to the Analysis of Protein Residues in Archaeological Ceramics** *Theory and Practice of Archaeological Residue Analysis*  
Barnard, H., Shoemaker L, Rider M, Craig OE, Parr RE, Sutton MQ, Yohe RM  
2007
- **Genomics, Proteomics and Neurology** *From Neuroscience to Neurology - Neuroscience, Molecular Medicine, and the Therapeutic Transformation of Neurology*  
Shoemaker LD, Geschwind DH  
2005