



Frank R. Sharp, M.D.

Research/Academic Interests	Dr. Sharp's research focuses on brain injury including whole genome studies of ischemic stroke, intracerebral hemorrhage, subarachnoid hemorrhage, white matter hyperintensities and Alzheimer's Disease in humans and in animal disease models.
Title	Professor of Neurology
Specialty	Neurology
Department	Neurology
Division	Neurology
Center/Program Affiliation	UC Davis MIND Institute
Address/Phone	UC Davis Medical Center, 2315 Stockton Blvd. Sacramento, CA 95817 Phone: 800-2-UCDAVIS (800-282-3284)
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Education	M.D., UC San Diego, La Jolla CA 1972 Research Associate, National Institute of Mental Health, Bethesda MD 1973-1976 B.S., UC Davis, Davis CA 1968
Internships	Duke University Hospitals, Durham NC 1972-1973
Residency	Neurology, UC San Francisco, San Francisco CA 1976-1979
Board Certifications	American Board of Neurology
Professional Memberships	American Heart Association American Neurological Association American Society of Human Genetics Society for Cerebral Blood Flow and Metabolism Society for Neuroscience
Honors and Awards	Visiting Professor, University of Pennsylvania, UCSF, NYU, Emory University, Mount Sinai, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 Willis Award, American Heart Association, Basic Science Research in Stroke, 2019 Distinguished Professor, University of California at Davis, 2017 Invited Speaker Japanese Society for Molecular Neurosurgery, California Neurotrauma Assn, 2017



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Deans Prize, Excellence in Research at University of California at Davis, 2009
Fred Plum Lecture in Stroke, American Neurological Association, San Diego, California, 2007
Best Teacher, University of California at Davis, 2006, 2007
ISI Most Highly Cited in Neuroscience (top 250 cited neuroscientists world-wide), 2003
Best Teacher, University of Cincinnati, 2002

Select Recent Publications

Xu H, Stamova B, Ander BP, Waldau B, Jickling GC, Sharp FR, Ko NU. mRNA Expression Profiles from Whole Blood Associated with Vasospasm in Patients with Subarachnoid Hemorrhage. *Neurocrit Care*. 2019 Oct 8. doi:10.1007/s12028-019-00861-x. PMID: 31595394.

Navi BB, Mathias R, Sherman CP, Wolfe J, Kamel H, Tagawa ST, Saxena A, Ocean AJ, Iadecola C, DeAngelis LM, Elkind MSV, Hull H, Jickling GC, Sharp FR, Ander BP, Stamova B. Cancer-Related Ischemic Stroke Has a Distinct Blood mRNA Expression Profile. *Stroke*. 2019 Nov;50(11):3259-3264. doi:10.1161/STROKEAHA.119.026143. Epub 2019 Sep 12. PMID: 31510897.

Cheng X, Ferino E, Hull H, Jickling GC, Ander BP, Stamova B, Sharp FR. Smoking affects gene expression in blood of patients with ischemic stroke. *Ann Clin Transl Neurol*. 2019 Sep;6(9):1748-1756. doi:10.1002/acn3.50876. Epub 2019 Aug 22. PMID: 31436916.

Stamova B, Ander BP, Jickling G, Hamade F, Durocher M, Zhan X, Liu DZ, Cheng X, Hull H, Yee A, Ng K, Shroff N, Sharp FR. The intracerebral hemorrhage blood transcriptome in humans differs from the ischemic stroke and vascular risk factor control blood transcriptomes. *J Cereb Blood Flow Metab*. 2019 Sep;39(9):1818-1835. doi:10.1177/0271678X18769513. PMID: 29651892.

Durocher M, Ander BP, Jickling G, Hamade F, Hull H, Knepp B, Liu DZ, Zhan X, Tran A, Cheng X, Ng K, Yee A, Sharp FR, Stamova B. Inflammatory, regulatory, and autophagy co-expression modules and hub genes underlie the peripheral immune response to human intracerebral hemorrhage. *J Neuroinflammation*. 2019 Mar 5;16(1):56. doi:10.1186/s12974-019-1433-4. PMID: 30836997.

Lv B, Cheng X, Sharp FR, Ander BP, Liu DZ. MicroRNA-122 Mimic Improves Stroke Outcomes



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and Indirectly Inhibits NOS2 After Middle Cerebral Artery Occlusion in Rats. *Front Neurosci.* 2018 Oct 24;12:767. doi:10.3389/fnins.2018.00767. eCollection 2018. PMID: 3040534532.

Shroff N, Ander BP, Zhan X, Stamova B, Liu D, Hull H, Hamade FR, Dykstra-Aiello C, Ng K, Sharp FR, Jickling GC. HDAC9 Polymorphism Alters Blood Gene Expression in Patients with Large Vessel Atherosclerotic Stroke. *Transl Stroke Res.* 2019 Feb;10(1):19-25. doi:10.1007/s12975-018-0619-x. Epub 2018 Apr 13. PMID: 2965170.

Zhan X, Stamova B, Sharp FR. Lipopolysaccharide Associates with Amyloid Plaques, Neurons and Oligodendrocytes in Alzheimer's Disease Brain: A Review. *Front Aging Neurosci.* 2018 Feb 22;10:42. doi:10.3389/fnagi.2018.00042. eCollection 2018. PMID: 29520228 (10,000 reads).

Dykstra-Aiello C, Jickling GC, Ander BP, Shroff N, Zhan X, Liu D, Hull H, Orantia M, Stamova BS, Sharp FR. Altered Expression of Long Noncoding RNAs in Blood After Ischemic Stroke and Proximity to Putative Stroke Risk Loci. *Stroke.* 2016 Dec;47(12):2896-2903. doi:0.1161/STROKEAHA.116.013869. Epub 2016 Nov 10. PMID: 27834745.

Zhan X, Stamova B, Jin LW, DeCarli C, Phinney B, Sharp FR. Gram-negative bacterial molecules associate with Alzheimer disease pathology. *Neurology.* 2016 Nov 29;87(22):2324-2332. doi:10.1212/WNL.0000000000003391. Epub 2016 Oct 26. PMID: 27784770.

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