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**Dr. Daniel Franc, MD, QME**  
*Board Certified in Neurology*

*Articulate, Board certified Neurologist with more than 10 years of clinical expertise and 1 year of medical-legal expertise. Highly specialized in Neurological Studies.*

## **EDUCATION**

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- **University of Iowa, Iowa City, IA (1998)**  
Bachelor of Arts, International Health, International Studies and Russian
- **University of Minnesota, Minneapolis, MN (2008)**  
PhD - Neuroscience
- **University of Minnesota, Minneapolis, MN (2010)**  
Doctor of Medicine, MD
- **UCLA Medical Center, Los Angeles, CA (2014)**  
Residency - Neurology

## **CURRENT PROJECTS**

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- Normal Pressure Hydrocephalus Clinic at Saint John's Medical Center, Co-Director
- Transcranial Doppler Ultrasound to Identify Patients with Impaired Cerebral Vasomotor Reactivity and Physical Exercise as a Preventative Measure against Neurocognitive Degeneration, Primary Investigator
- Modulation of Human Gut Microbiome for Therapeutic Intervention of Alzheimer's Disease, Primary investigator
- Open Label Study for the Evaluation of the Feasibility of Applying Advanced MRI Scanning in Clinical Practice, focus on memory loss conditions, Primary Investigator
- The Effects of Advanced MRI Imaging of the Default Mode and Salience Networks on Pain and Focus Scales, Sub-Investigator
- Open Label Study for the Use of Transcranial Magnetic Stimulation for the Treatment of Memory Loss-Predominant Neurodegenerative Disease, Sub-Investigator

- Neurologic Care at the Ashe Center Student Health Center, University of California, Los Angeles, Director

## LICENSURE AND CERTIFICATION

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- California Board Certified Medical License

## HONORS AND AWARDS

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- UCLA Department of Neurology Resident Research Award (2014)
- UCLA Neuroinformatics Research Award (2014)
- Steer Family Award in Diabetes Research, University of Minnesota (2008)

## FLUENT LANGUAGES

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- English
- Danish
- French
- Spanish
- Russian

## RESEARCH & PUBLICATIONS

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Mowery DL, Franc D, Ashfaq S, Zamora T, Cheng E, Chapman WW, Chapman BE. Developing a knowledge base for detecting carotid stenosis with pyConText. AMIA Symp Proc. Washington DC. 2014.

Use of perfusion imaging and other imaging techniques to assess risks/benefits of acute stroke interventions. Tarpley J1, Franc D, Tansy AP, Liebeskind DS. Curr Atheroscler Rep. 2013 Jul;15(7):336.

'How Do Spatial and Angular Resolution Affect Brain Connectivity Maps from Diffusion MRI?' Liang Zhan, Daniel Franc, Vishal Patel, Neda Jahanshad, Yan Jin, Bryon Mueller, Matt Bernstein, Bret Borowski, Clifford Jack Jr, Arthur Toga, Kelvin Lim, Paul Thompson. ISBI 2012

Tract-specific uncertainty in simulated and in vivo magnetic resonance diffusion tensor images. Franc DT, Lim KO. Upcoming submission to Magnetic Resonance in Medicine.

High connectivity between reduced cortical thickness and disrupted white matter tracts in long-

standing type 1 diabetes. Franc DT, Kodl CT, Mueller BA, Muetzel RL, Lim KO, Seaquist ER. Diabetes. 2011 Jan;60(1):315-9. Epub 2010 Oct 27.

Cerebral and muscle MRI abnormalities in myotonic dystrophy. Franc DT, Muetzel RL, Robinson PR, Rodriguez CP, Dalton JC, Naughton CE, Mueller BA, Wozniak JR, Lim KO, Day JW. Neuromuscul Disord. 2012 Jan 28.

Quantification of uncertainty resulting from DTI tractography algorithm instability. Franc DT, Meutzler R, Mueller BA, Luciana M, Lim KO. Upcoming submission to NeuroImage.

Diffusion tensor imaging identifies deficits in white matter microstructure in subjects with type 1 diabetes that correlate with reduced neurocognitive function. Kodl CT, Franc DT, Rao JP, Anderson FS, Thomas W, Mueller BA, Lim KO, Seaquist ER. Diabetes. 2008 Nov;57(11):3083-9. Epub 2008 Aug 11.

Brain macrostructural and microstructural abnormalities in cocaine dependence. Lim KO, Wozniak JR, Mueller BA, Franc DT, Specker SM, Rodriguez CP, Silverman AB, Rotrosen JP. Drug Alcohol Depend. 2007 Sep 2

Modification of the Woodruff-Stamper assay demonstrates binding of Toxoplasma gondii tachyzoites to retinal vascular endothelium. Chipps TJ, Streeter PR, Franc DT, Neumeyer K, Planck SR, Rosenbaum JT, Smith JR. J Immunol Methods. 2006 May 30;312(1-2):209-13.  
Susceptibility of Retinal Vascular Endothelium to Infection with Toxoplasma gondii Tachyzoites. Smith JR, Franc DT, Carter NS, Zamora D, Planck SR, Rosenbaum JT. Invest Ophthalmol Vis Sci. 2004 Apr;45(4):1157-61

Susceptibility to endotoxin induced uveitis is not reduced in mice deficient in BLT1, the high affinity leukotriene B4 receptor. Smith JR, Subbarao K, Franc DT, Haribabu B, Rosenbaum JT. Br J Ophthalmol. 2004 Feb;88(2):273-5

Preferential Susceptibility of Retinal Vascular Endothelium to Infection with Toxoplasma gondii Tachyzoites. Oral presentation session, Association for Research in Vision and Ophthalmology international meeting, 2003.

Mobility Needs of Elder Women. US Department of Transportation paper authored with Dr. Robert Wallace, 1999.

Variability in brain structural connectivity maps due to voxel size. Liang Zhan, Neda Jahanshad, Daniel Franc, Vishal Patel, Christophe Lenglet, Bryon A. Mueller, Matt A. Bernstein, Bret J. Borowski, Clifford R. Jack Jr, Kelvin O. Lim, and Paul M. Thompson. Abstract: Annual Meeting of the Organization for Human Brain Mapping (2012).

Uncertainty of apparent white matter fiber tract size in DTI fiber tracking and region of interest analyses: A multi-resolution study. Daniel Franc, Christophe Lenglet, Gloria Haro, Paul

Thompson, Bryon Mueller, Guillermo Sapiro, Kelvin O Lim. Abstract: 14th Annual Meeting of the Organization for Human Brain Mapping (2008).

Simulations of DTI voxel size resolution on fiber tract measurements DT Franc, and KO Lim. Abstract: 16th Scientific Meeting International Society for Magnetic Resonance in Medicine (ISMRM) (2008).

DTI reveals widespread white matter abnormalities in Myotonic Dystrophy Type 1 and Type 2 populations. DT Franc, B Mueller, J Dalton, C Naughton, JW Day, and KO Lim. Abstract: 16th Scientific Meeting International Society for Magnetic Resonance in Medicine (ISMRM) (2008).

Cortical thickness is correlated with tract-specific fractional anisotropy in Type I Diabetes. DT Franc, C Kodl, B Mueller, R Muetzel, E Seaquist, and KO Lim. Abstract: 16th Scientific Meeting International Society for Magnetic Resonance in Medicine (ISMRM) (2008).

Microstructural abnormalities correlated with cognitive dysfunction in longstanding cocaine abuse. Daniel T Franc, Jeffrey R Wozniak, Bryon A Mueller, Sheila M Specker, Craig P Rodriguez, Amy B Silverman, John P Rotrosen, Kelvin O Lim. Abstract: 15th Scientific Meeting International Society for Magnetic Resonance in Medicine (ISMRM) (2007).

Cortical thickness is correlated with tract-specific fractional anisotropy in Type I Diabetes. DT Franc, C Kodl, B Mueller, R Muetzel, E Seaquist, and KO Lim. Abstract: 16th Scientific Meeting International Society for Magnetic Resonance in Medicine (ISMRM) (2008).