

Malini Soundarrajan, MD

Northwestern Medicine
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Academic Training

- 2016-current Endocrinology Fellowship, Department of Medicine, Northwestern Medicine, Chicago, IL
- 2016-current Medical Education Clinical Scholars Program, Northwestern University, Chicago, IL
- 2013-2016 Internal Medicine Residency, Department of Medicine, University of Chicago, Chicago, IL
- 2009-2013 M.D., University of Wisconsin School of Medicine and Public Health (UWSMPH), Madison, WI
- 2004-2009 B.S., Biomedical Engineering, University of Wisconsin (UW)-Madison, WI

Scholarship

Peer-reviewed publications in the primary literature:

- 2009 Anderson J, Goplen C, Murray L, Seashore K, **Soundarrajan M**, Lokuta A, Strang K, and Chesler N. (2009). Human Respiratory Mechanics Demonstration Model. *Adv. Physiol Educ.* 2009 Mar; 33(1): 53-9.

Abstracts:

- 2011 **Soundarrajan M**, Ali M, Blazel HM, Zetterberg H, Blennow K, Johnson SC, Gleason CE, Hermann BP, Dowling NM, Puglielli L, Atwood CS, Sager MA, Asthana S, Carlsson CM. "Simvastatin's Effect on CSF Neurofilament Light Chain in Adults at Risk for Alzheimer's Disease." *J Am Geriatr Soc* 2011.59 (Suppl 1): S195 (Abstract D107).

Poster & Oral presentations:

- 2015 **Soundarrajan M**, Flynn R, Schlaeffler C, Bakris G, Majewski C. "Relationship between Central Adiposity and Aldosterone in the Postmenopausal Female: A pilot study." Submitted abstract for presentation at the American College of Physicians Illinois Chapter Northern Region Annual Meeting, Chicago, IL. July 2015.
- 2015 **Soundarrajan M**, Flynn R, Schlaeffler C, Bakris G, Majewski C. "Relationship between Central Adiposity and Aldosterone in the Postmenopausal Female: A pilot study." Annual Resident Scientific Session. Department of Medicine, The University of Chicago Medicine, Chicago, IL. May 2015.
- 2012 Carlsson CM, **Soundarrajan M**, Bendlin BB, Zetterberg H, Blennow K, Dowling NM, Johnson SC, Gleason CE, Hermann BP, Blazel HM, Asthana S, Sager MA. "CSF Neurofilament Light Proteins and Cognitive Performance in Middle-aged Adults at Increased Risk for Alzheimer's Disease." Alzheimer's Association International Conference (Developing Topics Poster), Vancouver, Canada. July 2012.
- 2011 **Soundarrajan M**, Ali M, Blazel HM, Zetterberg H, Blennow K, Johnson SC, Gleason

- CE, Hermann BP, Dowling NM, Puglielli L, Atwood CS, Sager MA, Asthana S, Carlsson CM. "Simvastatin's Effect on CSF Neurofilament Light Chain in Adults at Risk for Alzheimer's Disease." American Geriatrics Society Annual Scientific Meeting, National Harbor, MD. May 2011.
- 2011 **Soundarrajan M**, Ali M, Blazel HM, Zetterberg H, Blennow K, Johnson SC, Gleason CE, Hermann BP, Dowling NM, Puglielli L, Atwood CS, Sager MA, Asthana S, Carlsson CM. "Simvastatin's Effect on Cerebral Spinal Fluid Neurofilament Light Chain in Adults at Risk for Alzheimer's Disease." UWSMPH Student Research Forum, Madison, WI. January 2011.
- 2006 **Soundarrajan M**, Olson C. "Specificity and Sensitivity of Clinical Screening Questions for Cigarette Use Among Students at the University of Wisconsin—Madison." (Oral presentation). UW Undergraduate Research Symposium, Madison, WI. April 2006.
- 2005 **Soundarrajan M**, Olson C, Tooman T. "Continuing Medical Education Delphi Study." UW Undergraduate Research Symposium, Madison, WI. April 2005.

Research

- 2016 **Department of Endocrinology, Northwestern Medicine**
Mentor: Lisa Neff, MD, MS
Evaluating the role of brown adipose tissue (BAT) as a target for obesity interventions and examining the effect of capsinoids in recruitment and activation of BAT through a randomized placebo-controlled trial of capsinoid supplementation obese males. Study recruitment is currently ongoing.
- 2015 **American Society of Hypertension, The University of Chicago Medicine**
Mentor: Colleen Majewski, MD, George Bakris, MD
Examined the relationship between central adiposity and aldosterone levels in mediating hypertension based on data from a clinical trial which investigated urine aldosterone levels, body mass index and waist-to-height ratio in pre- and postmenopausal females. Findings from the study were presented at the Department of Medicine's Annual Resident Scientific Session at the University of Chicago Medicine.
- 2015 **Department of Endocrinology, The University of Chicago Medicine**
Mentor: Celeste Thomas, MD
Completed root cause analysis for iatrogenic hypoglycemia among insulin-treated hospitalized adults at the University of Chicago as part of a hospital-wide quality improvement project in an effort to help develop interventions to prevent in-hospital hypoglycemia
- 2010-2013 **Wisconsin Alzheimer's Disease Research Center, UW-Madison**
(Medical Student Training in Aging Research Program)
Mentor: Cynthia Carlsson, MD, MS.
Evaluated the relationship between a cerebral spinal fluid (CSF) marker, neurofilament light chain, and cognition based on data from a 9-month randomized, double-blinded controlled trial which investigated the effects of simvastatin vs. placebo on CSF biomarkers of Alzheimer's disease,

inflammatory biomarkers, MRI brain perfusion and cognition in asymptomatic middle aged adults at risk of developing Alzheimer's disease. Findings from this study were presented at the American Geriatrics Society's annual meeting.

Work Experience

2008 **Product Development Engineering Intern at St. Jude Medical, Minnetonka, MN**
Worked as an engineering intern at the R&D department, Atrial Fibrillation division. Duties included performing and documenting verification testing and real-time age testing on diagnostic and ablation catheters, conducting root-cause analysis on failed catheters, and planning future projects.

Honors and Awards

2013 **Glasgow-Rubin Commendation for Academic Achievement, UWSMPH, Madison, WI**
Recipient of a certificate of commendation from the American Medical Women's Association recognizing women students who graduate in the top 10 percent of their class.

2013 **UWSMPH Scholarship**
Thomas H. and Ramona J. Steele Endowed Scholarship recipient; presented for medical students planning to pursue a career in academic medicine with an interest in nephrology.

2012 **Alpha Omega Alpha Medical Honor Society Member**

2012 **UWSMPH Scholarship**
Lewis E. and Edith Phillips scholarship recipient for outstanding academic achievement.

2010 **National Institute on Aging (NIA)/National Institutes of Health (NIH)/American Federation for Aging Research (AFAR) Medical Student Training in Aging Research (MSTAR) Award**
A competitive nationwide scholarship program which provides select medical students an 8-12 week experience in aging related research under the mentorship of top experts in the field.