

PROMOTION RECOMMENDATION
THE UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF INTERNAL MEDICINE
DEPARTMENT OF HUMAN GENETICS

Santhi K. Ganesh, M.D., assistant professor of internal medicine, Department of Internal Medicine, and assistant professor of human genetics, Department of Human Genetics, Medical School, is recommended for promotion to associate professor of internal medicine, with tenure, Department of Internal Medicine, and associate professor of human genetics, without tenure, Department of Human Genetics, Medical School.

Academic Degrees:

M.D.	1997	Northwestern University
B.A.	1993	Northwestern University

Professional Record:

2010-present	Assistant Professor of Internal Medicine, University of Michigan
2012-present	Assistant Professor of Human Genetics, University of Michigan
2012-present	Adjunct Assistant Professor, Johns Hopkins Institute of Genetic Medicine
2012-present	Adjunct Assistant Professor of Medicine, Johns Hopkins School of Medicine

Summary of Evaluation:

Teaching: Dr. Ganesh is a dedicated educator who is actively involved in the teaching and mentoring of a wide range of learners. In the clinical setting, she teaches medical students, residents, and fellows in the areas of general cardiology, vascular medicine and medical genetics, and also provides didactic sessions for these groups on a variety of topics. In her research laboratory, she provides one-on-one mentoring for graduate students and post-doctoral fellows on their research projects in the area of genetics. She also teaches undergraduate students about experimental design and research through the Undergraduate Research Opportunity Program, and is active in the Cardiovascular Center Summer Fellowship Program. Within the Department of Human Genetics, Dr. Ganesh serves as a mentor for the HG821/822 course in critical review of published data and seminar presentation skills. Dr. Ganesh is also extremely active in peer education, leading writing groups for scientific statements on the application of genetics to clinical practice, and providing lectures at many national cardiology conferences on this topic.

Research: Dr. Ganesh's research focuses on the genetic basis of cardiovascular disease. In addition to her own laboratory based research on the genetic and molecular basis of the rare vascular disease fibromuscular dysplasia, she is involved in highly collaborative national and international studies investigating the genetic determinants of blood pressure and hematologic traits. For many of these projects, she has played a leadership role, serving as the first or senior

author on the resulting high-impact publications in journals such as *Nature Genetics*, *PLoS Genetics*, and the *American Journal of Human Genetics*. Dr. Ganesh has a record of sustained extra-mural funding, including grants from the NIH (K99/R00; R01) and the Doris Duke Charitable Foundation. Her national reputation is evidenced by her extensive involvement in peer-review service for prominent journals and professional societies, and invited service on numerous committees, including as chair or co-chair for American Heart Association (AHA) writing groups.

Recent and Significant Publications:

Keller MF, ... Wilson JG*, Ganesh SK^{&*}, and Nalls MA* for the CHARGE Hematology, COGENT, and BioBank Japan Project (RIKEN) Working Groups. Trans-ethnic fine-mapping of white blood cell genetic associations. *Human Molecular Genetics* In press. (*Co-last author; [&]Correspondence author [sole])

Ganesh SK[&] (1/92), ... Chakravarti A.[&] Effects of long-term averaging of quantitative blood pressure traits on the detection of genetic associations. *American Journal of Human Genetics* 95:49-65, 2014. pii: S0002-9297(14)00264-X. ([&]Correspondence author)

Ganesh SK[&], Morissette R, .. McDonnell NB[&]. Clinical and biochemical features of fibromuscular dysplasia, a systemic vasculopathy with connective tissue features. ([&]Correspondence author). *FASEB J* 28:3313-3324, 2014.

Ganesh SK^{&*} (1/24), Arnett D*, ... Genetics and genomics for the prevention and treatment of cardiovascular disease: A scientific statement from the American Heart Association Council on Functional Genomics and Translational Biology. *Circulation* 128:2813–2851, 2013. ([&]Correspondence author; *Writing Group Co-Chair).

Nalls MA... Ganesh SK[&] (92/92). Multiple loci are associated with white blood cell phenotypes. *PLoS Genet* 7:e1002113, 2011. ([&]Correspondence author)

Service: Dr. Ganesh is active in clinical care, focusing on patients with vascular and genetic diseases. With her research expertise in the area of fibromuscular dysplasia, she often receives referrals from other institutions for patients with this disorder. Institutionally, she serves on several committees, including the Cardiovascular Center McKay Grant review panel, and the Clinical Advisory Board for the Translational Cardiovascular Pre-Doctoral Training Program. Nationally, Dr. Ganesh serves on a number of committees, such as the AHA Functional Genomics and Translational Biology Council Steering Committee, the Fibromuscular Dysplasia Society of America Medical Advisory Board, and the AHA Committee for Scientific Sessions Planning.

External Reviewers:

Reviewer A: “Dr. Ganesh is well recognized as a thought leader in the area of cardiovascular genetics. This has been demonstrated in her prior, and still ongoing, work on the genetics of restenosis. More recently she has established herself and the University of Michigan as playing a

central role in the application of genetic approaches toward diseases in the area of vascular medicine....She demonstrates *both* scholarly independence and a strong collaborative contribution to a scientific team effort.”

Reviewer B: “...Dr. Ganesh is an extremely bright, collegial and accomplished cardiovascular investigator with an excellent reputation in the field of vascular biology and cardiovascular genetics....For many years Dr. Ganesh has provided commendable service to the American Heart Association in several capacities including being the first author and Co-Chair of the writing group for an important AHA Scientific Statement on the Genetics and Genomics for the Prevention and Treatment of Cardiovascular Disease.”

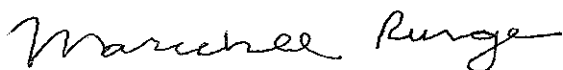
Reviewer C: “Without a doubt Dr. Ganesh’s contributions to cardiovascular and genomic science are outstanding and sufficient for this promotion....Her scholarship is outstanding, as is evident from her curriculum vitae, and it is of high impact at a national level. Dr. Ganesh is recognized as an experienced and valuable contributor [in] multiple capacities.”

Reviewer D: “In my assessment, Dr. Ganesh has achieved the stature of a well-established professional who is making consistent scholarly contributions to her chosen field. She has received national recognition for this accomplishment. Her work is of high quality as evidenced by its acceptance in high impact, peer-reviewed journals and her being funded regularly by prestigious mechanisms.”

Reviewer E: “Dr. Ganesh’s scholarship has been excellent....I would rank her in the top 5% of her peers nationally....Her service and teaching as well as her large number of extramural presentations clearly demonstrate, along with her funding and publication record, her national reputation. In addition, she is on an upward career trajectory.”

Summary of Recommendation:

Dr. Ganesh is widely recognized for her contributions to the field of the genetics of vascular disease. She is also a dedicated educator and clinician who provides substantial service at the institutional and national levels. Therefore, I enthusiastically recommend Santhi K. Ganesh, M.D. for promotion to associate professor of internal medicine, with tenure, Department of Internal Medicine, and associate professor of human genetics, without tenure, Department of Human Genetics, Medical School.



Marschall S. Runge, M.D., Ph.D.
Executive Vice President for Medical Affairs
Dean, Medical School

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