BURKE MEDICAL RESEARCH INSTITUTE

Weekly Colloquium

Tuesday, 2/13/2018,12:30pm, Billings Building – Rosedale Conference Room

"Human Genetic Investigation as a Pipeline for Drug Discovery for Cerebrovascular Disease"

Jonathan Rosand, MD, MSc
Massachusetts General Hospital
Harvard Medical School
Broad Institute

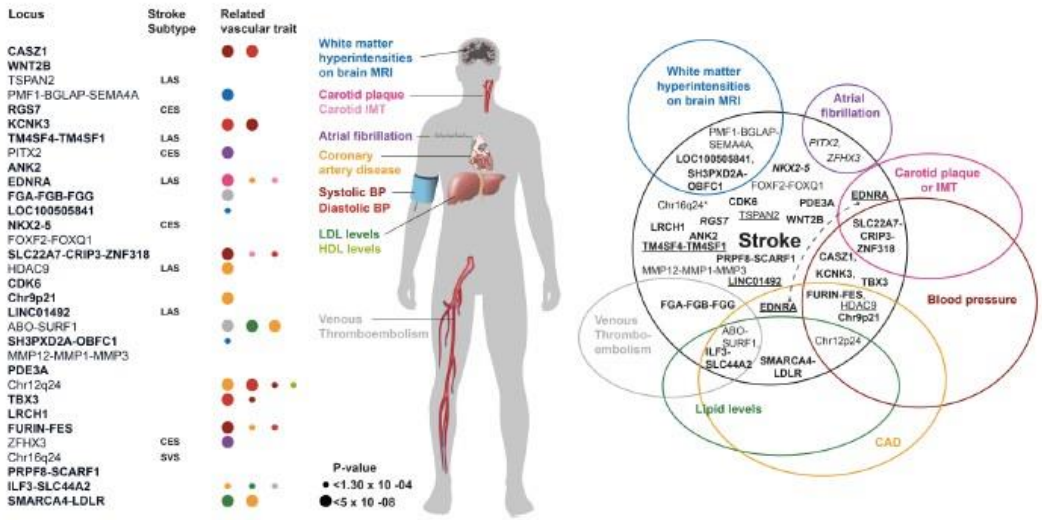
Research Abstract: The Rosand lab is housed within the MGH Center for Genomic Medicine and the Broad Institute of MIT and Harvard. The hallmark of their work is the analysis phenotypic, imaging, and genetic data from patients with cerebrovascular disease to test hypothesis about the underlying biology of the vascular disorders that both give rise to stroke and influence outcome from stroke. In the spring of 2007 Dr. Rosand established the International Stroke Genetics Consortium. The ISGC has grown into the leading force in stroke genetics, with more than 80 members drawn from six continents and is responsible for all of the enduring genetic discoveries in common forms of stroke. Most recently Dr. Rosand's team launched a global platform for the analysis and sharing of genetic and phenotypic data.

Publications:

Biffi A., Anderson C.D., Battey T.W.K, Ayres A.M., Greenberg S.M., Viswanathan A., Rosand J. Association between blood pressure control and risk of recurrent intracerebral hemorrhage. *JAMA* 2015, 2015 Sep 1;314(9):904-12.

The NINDS Stroke Genetics Network (SiGN) and the International Stroke Genetics Consortium. Loci associated with ischaemic stroke and its subtypes (SiGN): a genome-wide association. *Lancet Neurology*, 2016 Feb;15(2):174-184.

The International Stroke Genetics Consortium. Multi-ancestry genome-wide association study of 520,000 subjects identifies 32 loci associated with stroke and stroke subtypes. *Nature Genetics*, 2018, in press.



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