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Peter St George-Hyslop is the Director of the Tanz Centre for Research in Neurodegenerative Diseases and a University Professor, Division of Neurology at University of Toronto in Canada. He received his M.D. from the University of Ottawa, and conducted postdoctoral research at the University of Toronto and at Harvard Medical School.

Dr. Peter St George-Hyslop's research has been primarily directed toward elucidating the mechanisms causing human neurodegenerative disease, with research into the molecular basis for Alzheimer's disease constituting the main focus of this work. His laboratory discovered that Alzheimer's disease is etiologically heterogeneous; an observation that subsequently had a profound effect on the design of both clinical and basic research paradigms on this disease. His laboratory led the discovery of multiple genes associated with AD, including presenilin 1, presenilin 2, nicastrin, and SORL1. He collaborated on the discovery of three other AD genes: APP with J. Gusella, APOE with A. Roses and TREM2 with J. Hardy. More recently, as a member of the Alzheimer's disease Genetics Consortium, International Genomics of Alzheimer's Program (IGAP), he used Genome Wide Association Study (GWAS) methods to identify at least 20 new genes associated with late onset AD.