



## Life Sciences Seminar

# Deciphering somatic mutations in human brain disorders

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**Host: Gaia Novarino**

Mutations occur during cell division in all somatic lineages due to the unavoidable DNA replication errors. Because neural stem cells continue to undergo cell division throughout human life, somatic mutations in human brain can arise during development and accumulate with the aging process. Although somatic diversity is an evident feature of the brain, the extent of somatic mutations affecting the neuronal structure and function and their contribution to neurological disorders remain largely unexplored. Recently, we and other groups have provided the molecular genetic evidence that brain somatic mutations indeed lead to the structural and functional abnormalities of the brain observed in several neurodevelopmental disorders. In this symposium, I will present our recent findings regarding brain somatic mutations as potential molecular lesions underlying various human brain disorders.

**Monday, January 29, 2018 11:00am - 12:00pm**

IST Austria Campus Mondi 2



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: <https://ist.ac.at/en/campus/how-to-get-here/> The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.