



## The Jacobs Center's Series on Social Science and Genetics

**Prof. Dr. Andreas Papassotiropoulos**

*Faculty of Psychology, University of Basel*

### Genome-guided drug discovery in neuropsychiatric disorders

Genomic research aided by unprecedented technological breakthroughs in DNA sequencing technology revolutionizes our understanding of the genetic basis of complex, multigenic traits and diseases. Indeed, recent studies using millions of genetic markers in samples ranging from a few hundreds to several thousands of individuals have led and still lead to the identification of numerous susceptibility genes. Human memory is a genetically complex and multigenic trait. Heritability estimates of ~50% suggest that genes have an important impact on this fundamental brain function. Consequently, memory research greatly benefits from the recent advances in genomics. Indeed, an increasing number of genes, which are related to physiological memory function, to impaired function, and to brain activity, are being identified. In my talk I will demonstrate how the high-throughput use of genomic information provides new insights into the genetic basis of human memory and how it promotes the targeted treatment of memory disorders by identifying relevant genetic pathways in humans.

**Thursday, December 8, 2016, 12:00 – 13:15 h**

**At the Jacobs Center for Productive Youth Development  
Andreasstrasse 15, 4<sup>th</sup> floor, AND 4.19, 8050 Zürich**

*Individual meetings with Prof. A. Papassotiropoulos are available  
If interested please contact Maria Schönholzer at [maria.schoenholzer@jacobscenter.uzh.ch](mailto:maria.schoenholzer@jacobscenter.uzh.ch)*



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