



Universität
Basel

Research Project

Population-wide screens of the immune repertoire: a reverse personalized-medicine approach

Third-party funded project

Project title Population-wide screens of the immune repertoire: a reverse personalized-medicine approach

Principal Investigator(s) [Papassotiropoulos, Andreas](#) ;

Co-Investigator(s) [de Quervain, Dominique](#) ;

Organisation / Research unit

Bereich Psychiatrie (Klinik) / Molekulare Neurowissenschaften (Papassotiropoulos)

Departement Biozentrum / Life Sciences Training Facility (Papassotiropoulos)

Departement Psychologie / Molecular Neuroscience (Papassotiropoulos)

Department

Project start 01.01.2018

Probable end 31.12.2020

Status Completed

Antibodies are crucial for the intact function of the human immune system. For example, they are responsible for the body's defense against bacteria and cancer cells, but are also implicated in a variety of neuropsychiatric disorders. The present driver-project aims at identifying rare antibodies that will help elucidating mechanisms of disease and help identifying suitable targets for drug discovery. This will be achieved by an unprecedented high-throughput search for auto-antibodies in blood samples of thousands of participants. The Transfaculty Research Platform Molecular and Cognitive Neurosciences represents Basel's involvement in this Zürich-Basel alliance project. The Platform contributes with a unique combination of functional and structural brain imaging, genetic, behavioral, and biological data from thousands of healthy young participants who underwent detailed neuropsychological assessments. The intelligent interconnection of this database information with the data arising from the large, unselected patient cohort of the University Hospital Zurich will be crucial for the informed decisions that will result in the prioritization of novel drug targets.

Financed by

Swiss Government (Research Cooperations)

Add publication

Add documents

Specify cooperation partners