

### **BBMRI Task Force on Good Examples**

Definition of **good examples**: "positive stories of biobanking-based-research with a healthcare impact".

Swiss Biobanking Platform identified the CoLaus/PsyCoLaus cohort as one of the good Swiss examples of biobanking-based-research. Below is the story of this study cohort including its impact on healthcare.

## a. premise - info on biobanking process (i.e. samples generating the successful research where collected by a study cohort, by an institutional biobank...)

The CoLaus/PsyCoLaus cohort is a large population based monocentric study in Lausanne (Switzerland) which includes over 6000 subjects. Initiated in 2003, its main goals are to:

- 1. Prospectively assess the complex association between cardiovascular diseases (CVD), cardiovascular risk factors (CVRF) and mental disorders
- 2. Identify new molecular and genetic determinants of these conditions or their association

#### Assessments:

- <u>Data</u>: All subjects completed a face to face interview with questions on personal and familial history of CVRF, current medical conditions and medication as well as a screen for cognitive problems (in subjects older than 65 years of age). In addition, a screen for psychopathology was performed using the General Health Questionnaire (GHQ-12, Goldberg 1972). Basic anthropometric characteristics were also measured. Over 4000 subjects underwent an interview-based psychiatric assessment (DIGS) allowing to elicit DSM-V psychiatric diagnosis. Finally, additional cardiovascular and blood pressure assessments were performed in a subset of participants.
- <u>Samples</u>: A large array of serum biological variables was measured in the fasting state and in the urine. In addition, all participants from Caucasian origin were genotyped with a 500K SNP (Affimetrix®) DNA chip.

### b. what successful biobanking-based-research has been developed - publications /links

To date, CoLaus/PsyCoLaus has published over 300 articles in peer-reviewed journals. The successful biobanking-based-research that has been developed allows gain of knowledge in the genetic and epidemiological field of cardiovascular diseases and mental health.

This list of publications is available by clicking here:

http://www.researcherid.com/ProfileView.action?returnCode=ROUTER.Success&Init=Yes&SrcApp=CR&queryString=KG0UuZjN5WnJscYjPYkIdEuHtajPak9XYyGj9MQ7nQE%253D&SID=C1fUIHibJSXyV1N99tT

# c. what changes has been producted in terms of method/prevention/diagnosis/therapy (200 characters to synthesize the inspiring story)

CoLaus/PsyCoLaus study provides a unique opportunity to gather prospective data on the interplay between CVRF/CVD and mental disorders. A better understanding of the psychological,

physiological and behavioral links underlying these conditions will result in the development of more specific and efficient strategies of prevention and treatment.

### d. biobank/research group contact

> CoLaus Study (PI, Prof Peter Vollenweider)
Centre Hospitalier Universitaire Vaudois
Rue du Bugnon 19
1011 Lausanne
Switzerland

Phone: +41 21 314 73 61

Email: <a href="mailto:etude.colaus@chuv.ch">etude.colaus@chuv.ch</a> or <a href="mailto:peter.vollenweider@chuv.ch">peter.vollenweider@chuv.ch</a>

> PsyCoLaus Study (PI, Prof Martin Preisig)
CEPP
Site de Cery
1008 Prilly

Phone: +41 21 314 35 52

Email: <a href="mailto:etude.colaus@chuv.ch">etude.colaus@chuv.ch</a> or martin.preisig@chuv.ch