

# Psy-COH - French Cohort of Three Major Psychiatric disorders: Schizophrenia, Bipolar disorders, and Asperger syndrome

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## General

### Identification

Detailed name	French Cohort of Three Major Psychiatric disorders: Schizophrenia, Bipolar disorders, and Asperger syndrome
Sign or acronym	Psy-COH

### General Aspects

Medical area	Psychology and psychiatry
Health determinants	Addictions Genetic Geography Social and psychosocial factors
Others (details)	Schizophrenia, Bipolar disorders, ans Asperger syndrome

### Scientific investigator(s) (Contact)

Name of the director	Leboyer
Surname	Marion
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Organization	Fondation FondaMental - UPEC - Inserm

### Collaborations

#### Funding

Funding status	Mixed
Details	ANR "Investissements d'avenir", Sanofi

### Governance of the database

Sponsor(s) or organisation(s) responsible	Fondation FondaMental
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Organisation status	Private
Sponsor(s) or organisation(s) responsible	Université Paris-est-Créteil (UPEC) - Université Pierre et Marie Curie (UPMC)
Organisation status	Public
<b>Additional contact</b>	
<b>Main features</b>	
<b>Type of database</b>	
Type of database	Study databases
Study databases (details)	Cohort study
Database recruitment is carried out by an intermediary	A selection of health institutions and services
Database recruitment is carried out as part of an interventional study	No
<b>Database objective</b>	
Main objective	<ol style="list-style-type: none"> <li>1. Improve our ability to offer early diagnosis and prevention through identification of valid biomarkers/ bio-signatures of three major mental disorders</li> <li>2. Identify trajectories of patients moving across stages of disorder and behavioural indicators and biomarkers predicting risk and prognosis</li> <li>3. Estimate utilization of services, healthcare, societal costs and quality of life of patients suffering from these three disorders</li> <li>4. Allow national and international academic collaborators or industry partners to access cohort or data collected, to accelerate scientific progress.</li> </ol>
Inclusion criteria	Young patients -between 16 and 35 years old - with psychotic disorders (bipolar disorders dans schizophrenia), focussing on first-episodes, as well as neuro-developmental disorders (autism without mental retardation, or Aspeger, aged 3 years and upwards)
<b>Population type</b>	
Age	<p>Adolescence (13 to 18 years)</p> <p>Adulthood (19 to 24 years)</p> <p>Adulthood (25 to 44 years)</p>

Adulthood (45 to 64 years)

Population covered Sick population

Gender Male  
Woman

Geography area National

Detail of the geography area Patients will be recruited in the expert centers involved in the french network. This network is composed of 8 bipolar disorders (Bordeaux, Créteil, Grenoble, Marseille, Montpellier, Paris, Strasbourg, Versailles), 8 for schizophrenia (Clermont-Ferrand, Créteil, Lyon, Marseille, Montpellier, Paris, Strasbourg, Versailles) and 4 for Asperger syndrome (Bordeaux, Créteil, Paris, Toulouse)

## Data collection

### Dates

Date of first collection (YYYY or MM/YYYY) 2012

### Size of the database

Size of the database (number of individuals) [1000-10 000] individuals

Details of the number of individuals We aim to recruit 1000 bipolar, 800 schizophrenic, and 200 Asperger patients.

### Data

Database activity Current data collection

Type of data collected Clinical data  
Declarative data  
Paraclinical data  
Biological data

Clinical data (detail) Direct physical measures  
Medical registration

Declarative data (detail) Paper self-questionnaire

Paraclinical data (detail) Brain imaging

Biological data (detail) NFS, blood gases, electrolytes, glycemia, lipid profile, normal liver chemistry, thyroid profile, albumin, total protein, urea, uric acid, creatinine, phosphorus, iron, serum calcium level,

psychotropic dosages, ...

Presence of a biobank Yes

Contents of biobank  
Whole blood  
Serum  
Plasma  
DNA  
DNAc/RNA

Details of biobank content  
The collections will be constituted of different bio-samples all derived from blood: DNA for genetic and epigenetic studies, RNA and lymphocytes for transcriptomics, serum for proteomics and metabolomics analyses. Blood sampling will be performed first at inclusion for each of the 2000 expected subjects, and then on a yearly basis during the clinical follow-up. On the contrary to others specimen, lymphoblastoid cell lines will be established only once at first inclusion. Blood will be collected in tubes supplemented with EDTA for DNA extraction, with lithium heparin for lymphocyte isolation, in silicone coated for serum and in PAXgene collection tubes for RNA extraction

Health parameters studied  
Health event/morbidity  
Health care consumption and services  
Quality of life/health perception

Care consumption (detail)  
Hospitalization  
Medical/paramedical consultation  
Medicines consumption

## Procedures

Data collection method  
An anonymized e-medical file has been created, that allow data recording and sharing between centres. Three e-medical files (e-Fondamental) allow extensive psychiatric, somatic and cognitive assessments, conducted by trained psychiatrists, psychologists and nurses. Three e-medical files (e-bipolar, e-schizo, and e-asperger) have already been built for assessment and follow-up of each disorder which allow the implementation of a personalized approach to the care and treatment of each patient, shared with the referring clinicians (MG and psychiatrists). In addition to its clinical remit, the network has begun to develop large-scale datasets along with biobanks or repositories, linked with platforms for genotyping or brain-imaging.

Participant monitoring Yes

Details on monitoring of participants

We plan to follow-up during ten years the impact of environmental factors (such as stress, migration, urban condition, cannabis), and to use innovative medical devices to examine objective parameters that might be associated with risk and relapse such as indicators of circadian rhythm (actimetry, web based diary, as well as body monitor), but also indicators of somatic disorders (weight, biological tests...). Blood sampling will be performed every year to follow up native DNA and RNA to explore the possible changes of epigenetic markers during follow-up as well as immuno-inflammation parameters measured in serum

Links to administrative sources

No

## Promotion and access

### Promotion

Link to the document

<http://www.fondation-fondamental.org/>

### Access

Terms of data access (charter for data provision, format of data, availability delay)

Psy-COH will allow data access to academic as well as industrial partners, thus giving birth to numerous innovative projects

Access to aggregated data

Access on specific project only

Access to individual data

Access on specific project only