

## What are the NCCRs?



- In 2001 the Swiss National Science Foundation launched the National Centres of Competence in Research (NCCR).
- ► The main goal of the currently 26 NCCRs is the promotion of scientific excellence in areas of major strategic importance for the future of Swiss research, economy and society.
- NCCRs are managed by leading houses institutionally linked to universities or other distinguished research institutions (home institutions)
- In 2010 (3<sup>rd</sup> call), out of 60 proposals, 8 were selected one of which is SYNAPSY

## **Main Aims**



- Establish a **strong collaboration between basic neuroscientists and clinicians** through well integrated research project based on clinical cohorts.
- ► Introduce a neuroscience culture in the Departments of Psychiatry with aim of training promising young clinicians to promote the emergence of a new generation of psychiatrists motivated by an academic career.

# The NCCR Synapsy





PHASE 3

Competitive call: 60 applications, 8 funded

Phase 1: 1.1.2010 - 30.9.2014 17 MCHF

Renewed with full funding for Phase 2

162 members

31 project leaders

5 main research projects

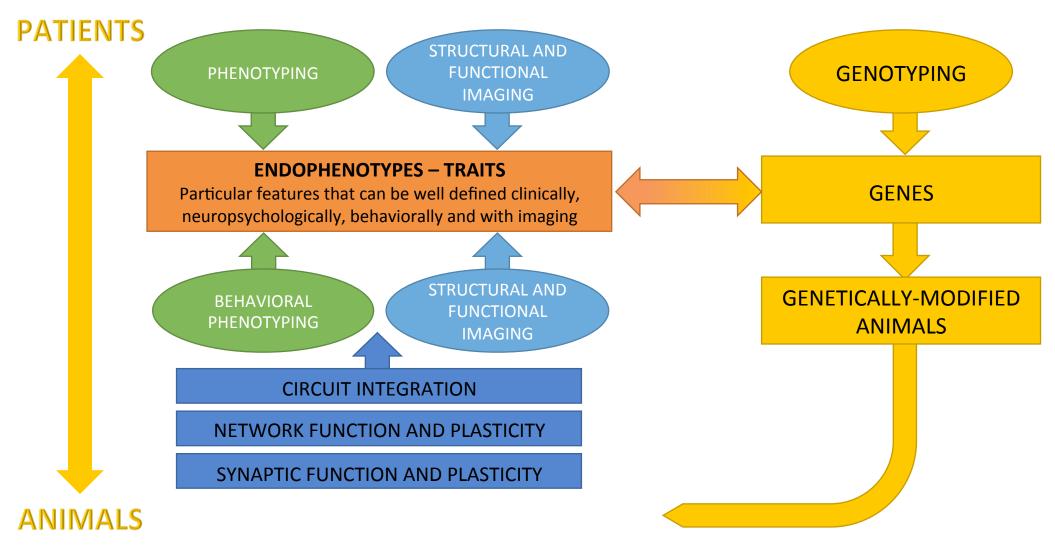
# Challenges To Tackle When NCCR Synapsy Started



- Limited extent of the neuroscience culture and activities in the Departments of Psychiatry in Geneva and Lausanne
- Neuroscientific community in Geneva and Lausanne marginally interested in psychiatry
- Existing clinical cohorts did not sufficiently benefit from technological infrastructures or neurobiological hypotheses

# **Strategic Guiding Principles**





# 5 Research Projects Based on Clinical Cohorts

#### **AXIS I**

Psychopathological consequences of **genetically-determined** neurodevelopmental abnormalities

Project 1 22Q11 deletion syndrome

Project 2
Biomarkers of early psychosis

Project 3
Autism spectrum disorders

#### **AXIS II**

Psychopathological consequences of developmental stress and traumatic life events

Project 4
Developmental stress

Project 5 Mood disorders - Glia

# **Achievements update**



Introduce a neuroscience culture in the Departments of Psychiatry with aim of training promising young clinicians to promote the emergence of a new generation of psychiatrists motivated by an academic career.

Both Departments of Psychiatry (Lausanne and Geneva) have fully integrated the instruments that the NCCR-SYNAPSY has provided.

Support of young psychiatrists interested in neuroscience

Enter the MD-PhD programs

PHASE 3

- Clinician-scientists program
- Clinicians in lab program

4 women have benefited from the programs.

# **Structural Impact**





Professorship (Associate Professor level) in the Department of Psychiatry of the University of Geneva. Psychiatric neuroscience  $\rightarrow$  Alexandre Dayer



Professorship (Assistant Professor) in the Department of Psychiatry of the University of Geneva. Psychiatric neuroscience → 2017



Professorship (Assistant Professor) at the Brain Mind Institute at **EPFL**. **Epigenetics** → **Johannes Gräff** 



Professorship (Assistant Professor level) in the Department of Psychiatry of the University of Lausanne. Psychiatric neuroscience → Ongoing search



Professorship (Full Professor level) at the Brain Mind Institute at EPFL. Bioinformatics > **Kathryn Hess-Bellwald** 



Professorship (Full Professor level) in the Autism Cantonal Center at the CHUV/University of Lausanne. Director > Nadia Chabane



Professorship (Associate Professor level) in the Neuroscience Department of the University of Geneva. Autism -> Camilla Bellone

# **Long Term Goals**



- Improve scientific knowledge on mental and cognitive disorders
- Catalyze cutting-edge research to provide new approaches for the patient care
- Improve the quality of life of the patients
- Encourage academic careers for junior researchers/clinicians and women
- Destigmatize mental disorders and people suffering from such troubles