Synopsis for EU-GEI Publication

Synopsis no.: *S2.33*

Preliminary title: Psychosis Polygenic Risk scores and social cognition in psychotic disorders.

Contact info for the person(s) proposing the synopsis

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Publication category: WP2 paper following main PRS and cannabis core papers

Working and writing group: WP2 and genetics work package :
Giada Tripoli, Craig Morgan, Marta Di Forti, Diego Quattrone, Laura Ferraro, Alex Richards, Mick O' Donovan, Robin Murray

Work Packages involved: WP2

Partners involved from whom candidate co-authors (*additional to working and writing group*) should be nominated: Jim van Os, Laura Ferraro, Palermo EUGEI WP2 team

Objectives (scientific background, hypothesis, methods, and expected results):
Cognitive impairment is considered as a core feature of psychotic disorders and is indeed an indicator of vulnerability for the illness. Psychotic patients tend to present lower IQ and show impairment in specific cognitive domains, such as processing speed, working memory, attention, reasoning and problem solving, and social cognition than healthy controls.

1. **Test for social cognition differences between first episode psychosis patients and controls (WP2)2. Test for an association between patterns of cannabis use and social cognition in both cases and controls Test if Schizophrenia and Bipolar PRS predict pattern of social cognition in cases and in controls**

Data needed for the study from WP2 case-control sample: 1. Psychosis Polygenic (Schizophrenia and Bipolar) scores data; 2. Basic Socio-demographics from social scale questionnaires (MRC1 and 2). 4. All data from Wechsler Adult Intellingence Scale (WAIS III), short form; Degraded Facial recognition (DFAR) task; Benton Facial Recognition (BFR) test; White Noise task; Beads task.5. CEQ data

Plan for statistical analysis (overall strategy):

- **STATA 14 to apply SEM and Regression analyses**
- **ML approaches to identify the best predictors of social cognition separately in cases and controls**
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Other analyses/methods: NA

Involvement of external Parties (non EU-GEI): Professor Daniel Stamante and his team of ML expert, Goldsmith University, London

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IPR check:
Timeframe: 1st paper on social cognition, cannabis and PRS September 2017 **ML analyses 6 months later**
Additional comments: