



Evaluation F2F: 13028618 - 13031428

Project code: RF-2013-02356294

Project title: Paediatric Bipolar Disorder with comorbid Attention Deficit / Hyperactivity: new peripheral putative biomarkers and preclinical assessment of pharmaco-therapy.

Evaluation	Evaluation text	Points
Scientific quality, worth of the proposed research and feasibility of the objectives.	Evaluation of endogenous antibodies presence in ADHD + BD in children. Preliminary data suggest alteration in lymphocytes. Use of KO animals to test behavioural hypothesis related to involvement of 5HT7 receptors and quetiapine effects on these receptors as clinical mechanisms of activity in ADHD and BD. Further, functional correlation by microdialysis and glutamate/GABA detection. Coordinated with clinical studies. Feasible although different aims without clear relationship between them except for the disease target.	3,00
Novelty, originality and transferability.	Translatable. Good articulation of behavioural, in vitro and in vivo neurochemical designs. Target disorders need studies of this characteristics.	2,50
Methodologies and development strategy of the project (detailed over the 3 years of the project), preliminary data and bibliographic references.	Use of animal models and pharmacological tools. Preliminary data available. Weaknesses: animal models of schziophrenia are assumed as animla models of BD.	2,50
Merits of the applicant (general information and contact details), scientific activity (based on the curriculum vitae and publication track records presented by the applicant - 5 best articles, 5 articles related to the topic, taking into consideration the IF of the scientific journals the articles were published in, the number of citations from the publication to the request for funding, and the h-index) and the 5 latest publications. With reference to the projects involving Italian Researchers operating abroad, the data of the Italian researcher operating abroad are relevant too. Expertise of the group of researchers.	Cooperative Project between basic and clinical researchers. Each team possesses experience and publications in the topic.	2,00
Facilities, infrastructures and equipment available. Economic adequacy and detailed financial statement. Economic consistency of the project.	Equipment is available. Budget is described according to aims. Important budget for subcontracts.	2,00
Does this project relate to products or ideas already covered by an industrial patent by the co-financing company or otherwise subjected to the rights of a legal subject other than the corresponding Institutional Authority?	The applicants possesses a patent in the topic.	Yes
Total points		12,00



Evaluation F2F: 13028618 - 13031428

Evaluation	Evaluation text	Points
Overall evaluation (half page).	Collectively the studies will examine several aspects of interest relevant to bipolar disorder and comorbid ADHD. Aim 1 will provide novel information about the presence of autoantibodies against suspect causative factors such as DAT and 5HT7. The second aim is designed to provide information regarding the role of 5HT7 receptors in manic and attentive behaviors in mice. Both quetiapine and methylphenidate will be evaluated for their abilities to modify behavioral hyperactivity and attention deficit. Aim 3 will examine rats following local infusion of CPP into the mPFC and the role of these same drugs in modulating behaviors related to executive function deficits. The project possesses as strengths the experience of the group in the topic and the translatability. The weaknesses are the validity of the models and the different targets to be evaluated simultaneously. The research team is individually strong and the budget is suitable for the proposed aims.	
Total points		12,00