UNIVERSITÀ DEGLI STUDI DI TORINO

I@UNITO – Visiting Scientists

Scientific area	Scientific responsible	Host Department	Type of activity	Start of mobility	Language
05/F1	Giorgio R. Merlo	Molecular Biotechnology	Research and Training	Febr. 2017	English
Type of fellowship	Senior (equal or more than 40 years old) 1 month				
Title of the research project	Examination of neurogenesis, cytoarchitecture and axonal connections in models of epilepsy and intellectual disability				
Description of the research project	Several animal models have been obtained that reproduce aspects of the human epilepsy and intellectual disability conditions. The role of inhibitory neurons in these pathologies is increasingly being recognized. However, the detailed endophenotype, in terms of altered neurogenesis, axonal extension and synaptic networking are still poorly understood. We aim to take advantage of the established models to investigate these aspects.				
Profile Description	The Visiting Professor should have an excellent publication record (at least 10) in developmental neurobiology and experimental neuroscience, experience in the mouse as experimental model, and ideally should successfully lead a team of young investigators				
Research objectives	We aim at conducting experiments and train young personnel on the following : 1. cortical and hippocampal neurogenesis in normal and diseased brain, 2. Accurate analyses of dendritogenesis and axonogenesis in excitatory and inhibitory neurons 3. accurate axonal tracing to map medium- and long-distance connections 4. Analyses of network activities. We also aim at having the Visiting Professor organize mini-lectures by our Laurea Specialistica and Doctoral students, for an interactive review of the research activity				
Website and Contact	http://www.dmbhs.unito.it/do/home.pl/View?doc=Research_areas.html giorgioroberto.merlo@unito.it				