



Scheda di Offerta Tesi

Titolo (provvisorio): 3D cell cultures under dynamic perfusion

Relatore/i: Pastorino Laura, Donatella Di Lisa

E-mail: Laura.Pastorino@unige.it

Indirizzo: Via Opera Pia 13

Tel.: (+39) 010 33 56547

Descrizione

Motivazione e campo di applicazione

Preparation, optimization and characterization of advanced 3D brain tissue cultures under dynamic perfusion

Obiettivi generali e principali attività

Advanced 3D brain tissue in vitro models will be developed under dynamic cell culture conditions and characterized. Neurons derived from human pluripotent stem cells will be used. The 3D models will be tested under different dynamic conditions and the impact on the maturation of a functional neuronal network will be characterized by immunocytochemistry and by electrophysiological recordings.

Obiettivi di apprendimento (strumenti tecnici e analitici, metodologie sperimentali)

To gain practical experience in the development, engineerization and characterization of advanced in vitro 3D brain tissue models.

Luogo/i in cui si svolgerà il lavoro: DIBRIS, University of Genova

Informazioni aggiuntive

Numero massimo di studenti: 1