### Title (tentative):
Human stem-cells derived neurons coupled to MEA devices for studying epilepsy

### Thesis advisor(s):
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### Description

#### Motivation and application domain
Neuroengineering, brain-on-a-chip, neuroal diseases and translational medicine

#### General objectives and main activities
Experimental work involving neuronal differentiation of human induced pluripotent stem cells and electrical activity recordings using micro-electrode arrays. Data analysis on dataset including control and cells from epileptic patients.

#### Training Objectives (technical/analytical tools, experimental methodologies)
Experimental neuroscience and neuroengineering. Data analysis. Translational medicine.

#### Place(s) where the thesis work will be carried out:
Neuroscience Lab @UTWENTE, The Netherlands

### Additional information

#### Maximum number of students:
2

#### Financial support/scholarship:
Erasmus+