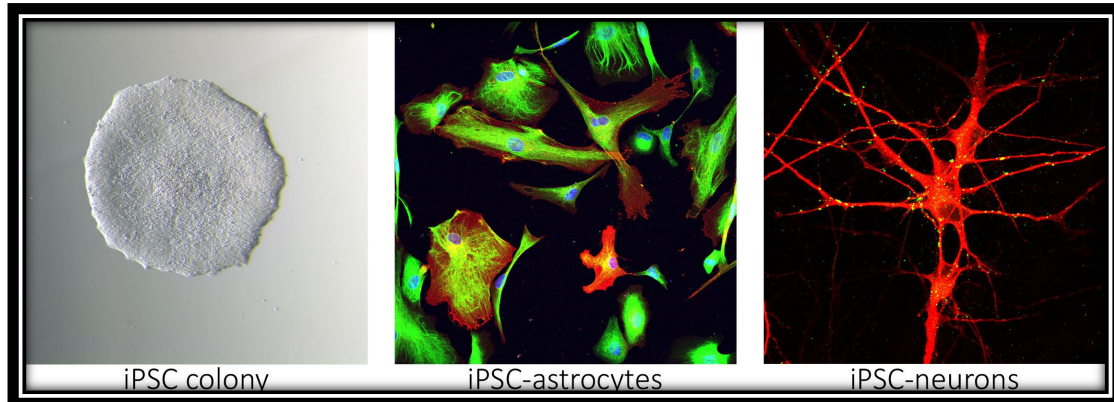




## Master Project

### Role of APOE in human neural cell physiology

Alzheimer's Disease (AD) is the most common type of dementia with the apolipoprotein E4 (*APOE4*) allele as major genetic risk factor. We use **human induced pluripotent stem cells (iPSCs)**, isogenic for *APOE*, to determine the role of *APOE* for human astrocyte and neuron physiology. In the project, you will differentiate *APOE*-isogenic iPSCs into **glutamatergic neurons**, which will be **functionally analyzed** using state-of-the-art techniques. This project is designated for a one-year Master thesis. You will be integrated into the existing framework of our group and guided by one of our PhD students.



#### Required qualifications

The applicant should show high motivation and dedication to perform research at high quality. Very good English skills, both oral and written, are expected. Experience in cell culture is of advantage.

#### Begin

1.8.2022 or by arrangement

#### Contact

Please send your CV including a cover letter to:

Dr. Christian Tackenberg, [christian.tackenberg@irem.uzh.ch](mailto:christian.tackenberg@irem.uzh.ch)

[www.irem.uzh.ch/en/research/Group-R.-M.-Nitsch/Tackenberg.html](http://www.irem.uzh.ch/en/research/Group-R.-M.-Nitsch/Tackenberg.html)

#### References

de Leeuw et al., (2022), *Stem Cell Reports* 17(1):110-126