STudent REseArch Mobility Programme (STREAM)
Project proposal

Host University:
Utrecht University

Field (drop-down list):
Natural sciences, mathematics and statistics

Specified field, subject:
Neurobiology

Research project title:
Function of C21orf2 and NEK1 in neuronal cells.

Possible starting month(s):

Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
☐	☐	☐	☐	☒	☒	☐	☐	☐	☐	☐	☐

Possible duration in months:

1	2	3	4	5	6	7	8	9	10	11	12
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Alternatively, exact starting and end date: from date to date

Suitable for students in: ☐ Bachelor level ☒ Master level

Prerequisites:
Experience in performing basic research, cell cultures and microscopy.

Restrictions:

Description (maximum 2,000 characters):
Amyotrophic lateral sclerosis (ALS) is a devastating neurodegenerative disease of the upper and lower motor neurons. Two novel ALS risk genes C21orf2 and NEK1 have been recently identified in Project MinE coordinated by our collaborators at UMC Utrecht. These two genes are expressed in neuronal cells and their protein products have been shown to interact in vitro. We are currently studying function of C21orf2 and NEK1 in neuronal cells and their potential involvement in pathology of ALS.

The student will be integrated into this project and will be using methods of molecular biology, biochemistry, cell biology and confocal fluorescent microscopy in combination with stable neuronal cell lines and primary neuronal cultures.

Faculty and/or Department:
Department of Translational Neuroscience
Brain Center Rudolf Magnus
University Medical Center Utrecht

Contact person, including position:
dr. Charlotte Brand, coordinator Honours College

Contact email:
honourscollege@uu.nl

Deadline for nomination to reach host university:
Ongoing

Notification of admission given by the end of:
Three weeks after application deadline

Additional information: