

LERU STudent REseArch Mobility Programme (STREAM)
Project proposal



Host University:
Università degli studi di Milano



Field:
Biology

Specified field, subject:
Microbiology

Research project title:
Epigenetic control of cell differentiation: use of erasers and 3D matrix for drug testing and personalized cell therapy



Possible starting month(s):

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

Possible duration in months:

1	2	3	4	5	6
					x

Suitable for students in: 2nd cycle (Master students)

Prerequisites: Basic cell biology and tissue culture knowledge

Restrictions: none

Description:

The projects aims at the creation of 3D in vitro systems that best mimic physiological in vivo conditions. Cells are epigenetically erased and reprogrammed and then plated on matrix with organ specific stiffness or decellularized scaffolds to encourage differentiation and increase yeald. The in vitro model created will refine our knowledge of the tissue of interest, will replace the old traditional in vitro approach and reduce the use of experimental animals.

Faculty or Department Department of Health, Animal Science and Food Safety - Università degli Studi di Milano

Contact person: International relations office, University of Milan

Contact email: international.programmes@unimi.it.

