Host University:
Universität Zurich

Field:
Physiology, Rheumatology, Medical diagnostic and treatment technology, Biochemistry, Biology, Therapy and rehabilitation, Medicine, Health

Specified field, subject:
Rheumatoid Arthritis

Research project title:
Finding key mechanisms of the destructive process in joints of patients with Rheumatoid Arthritis

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

Exact starting and end dates will be discussed between the supervisor and the student

Suitable for students in:
- Bachelor level
- Master level

Prerequisites:
Undergraduate education in Basic Sciences or Medical Studies.

Restrictions:
NONE

Description (maximum 2,000 characters):
The main fields of research include the molecular and cellular basis of joint destruction in rheumatoid arthritis and involve especially the search for novel genes and their signalling pathways ("Functional Genomics"). Special emphasis is given to the epigenetic mechanisms of gene regulation, including methylation, acetylation, sumoylation and microRNA. The Center is equipped with the state of the art technology in molecular biology and has established a molecular biology training course, twice a year, to train new international research fellows in cloning, sequencing, cell-culture, cell-sorting (FACS), TaqMan Real Time PCR, primer design, in situ PCR, CHIP, analysis of acetylation, methylation and miRNAs, in situ hybridization and immunohistology. Students participating in this research project will not be working directly with patients. Duration of participation: 5 - 11 months. Number of places available: 2 or 3 per semester.

Note: Research project may be adapted according to the student profile and the period/timeline.
Department:  
Center of Experimental Rheumatology

Contact person, including position:  
Katja Durkin, Project Manager, International Relations Office

Contact email:  
Katja.durkin@int.uzh.ch

Deadline for nomination to reach host university:  
Ongoing

Notification of admission given by the end of:  
Given within 4 weeks

Additional information:  
NA