



## STudent REseArch Mobility Programme (STREAM) Project proposal

**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	Fev	Mar	Apr	May	Jun	Jul	Aug
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**Possible duration in months:**

1	2	3	4	5	6
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*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.*



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University of  
Zurich<sup>UZH</sup>



**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



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