LERU STudent REseArch Mobility Programme (STREAM)
Project proposal

**Host University:**
Università degli studi di Milano

**Field:**
Veterinary

**Specified field, subject:**
Molecular biology, biochemistry

**Research project title:**
microRNA and innate immunity in the dog ear

**Possible starting month(s):**

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**Possible duration in months:**

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

**Prerequisites:** basic molecular biology knowledge

**Restrictions:** none

**Description:**
The study aims to determine the presence of innate immunity in the ear plug of dog, with a special focus on
a) Immune-related cells and
b) Epigenetic control of innate immune reaction
Ear plugs will be collected from the outer ear from dogs. The possible presence of microRNA will be investigated by means of molecular biology techniques. The presence of immune related cells, such as lymphocytes or macrophages, will be also investigated by means of immunohistochemistry and molecular biology techniques.

**Faculty or Department** Department of Veterinary Medicine - Università degli Studi di Milano

**Contact person:** International relations office, University of Milan

**Contact email:** international.programmes@unimi.it