

**ENS – IISER / BIOSANTEXC Partnership  
Internship Proposal Form****FIELD  
BIOLOGY**  
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Internship subject (title): **Effect of physical activity on tumor growth in mice : molecular analysis**

**Name of the laboratory at ENS:** M2S Laboratory

**Name of the internship supervisor:** Pr. A. Rébillard

Email: Amelie.rebillard@univ-rennes2.fr

**Requested level:** Master 2

**Prerequisites for the internship:** Skills in : western blot experiments and analysis, RT-qPCR experiments and analysis, Immunohistochemistry experiments and quantification, statistics

**Internship proposal (description and expected training outcomes / 15 lines max):**

Recent preliminary results in the lab show that physical activity, depending of the modality, could reduce tumor growth in mice but the molecular mechanisms involved in this process are not deciphered. The objective of this internship proposal is to study signaling pathway related to proliferation, apoptosis, vascularization and immunity in tumor samples from the different group of mice.

PLEASE SEND THE DOCUMENT TO  
Service des Relations internationales : international@ens-rennes.fr