

# C U R R I C U L U M V I T A E



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## Education:

2012-2014: Master in Bioengineering, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland  
2008-2011: Bachelor in Life Science and Technologies, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland  
2004-2008: Liceo Cantonale (High school) di Mendrisio, Major in Biology and Biochemistry, Minor in Physics  
Distinction: « Excellent »

## Research experience:

*Stem cell dynamics laboratory (LDSCS), EPFL, Switzerland* *Research assistant, Sep 2012-on-going*  
Head of Laboratory: Prof. Yann Barrandon  
Supervisor: Christèle Gonneau  
Topic of the research: plasticity of thymic epithelial cells.

*PRK Lab, Institute of Molecular Biology (IMCB), Biopolis, Singapore* *6 months internship, Apr-Sep 2012*  
Head of Laboratory: Prof. Philipp Kaldis  
Supervisor: Shuhui Lim  
Cloning of targeting vector to generate knocked-in mouse. Training in all main molecular biology techniques. Experience in working with mouse embryonic fibroblast (MEF), neural progenitor cells (NPC) and human embryonic kidney cells (HEK293). Study of CDK10 KO mouse phenotype, unravelling the molecular mechanism of CDK10 protein.

*C&C Innovation Lab, NEC Corporation, Ikoma, Japan* *7 months internship, Sep 2011-Mar 2012*  
Head of Institute: Keiji Yamada  
Supervisor: Tomoharu Yamaguchi  
Developing of an analysis and classification method to distinguish between stress and cognitive load using physiological data (EEG, ECG and skin conductivity) obtained from day-long wearable bio-sensors.

*Bachelor Thesis* *2011*  
*Neurodegenerative Studies Laboratory (LEN), École Polytechnique Fédérale de Lausanne (EPFL), Switzerland*  
Head of the laboratory: Patrick Aebischer, EPFL president  
Advisor/Supervisor: Prof. Bernard Schneider, Aurélien Lathuilière  
Topic: "A bioactive implant for the release of therapeutic antibody against proteins implicated in neurodegenerative disorders". Design of a treatment for Alzheimer's disease by injecting a subcutaneous bio-compatible capsule containing cells genetically modified to produce an antibody against the active site of beta-secretase in APP (alpha-amyloid precursor protein, a major hallmark in Alzheimer's disease).

## Extracurricular activities:

*Class president* *2010-2011*  
I have been elected by my class to represent them in meetings with the president and the dean of my faculty, and also with the EPFL presidency.

*Member of SV-Travel* *2010-2011*  
"SV-travel" is the committee organizing the class trip for students in the third year of Life Science.  
I was responsible for the organization of our trip to South Korea, in particular in the preparation of the program, and in the organization of many fund raising activities and events.

**Awards:** SIPGA Scholarship from A\*Star, Singapore.

**Languages:** Italian: mother tongue  
English: fluent  
French: fluent  
German: basic

**Personal Interests:** Classical dance (pass advanced exam in Royal Academy of Dancing)  
Photography  
Violin