

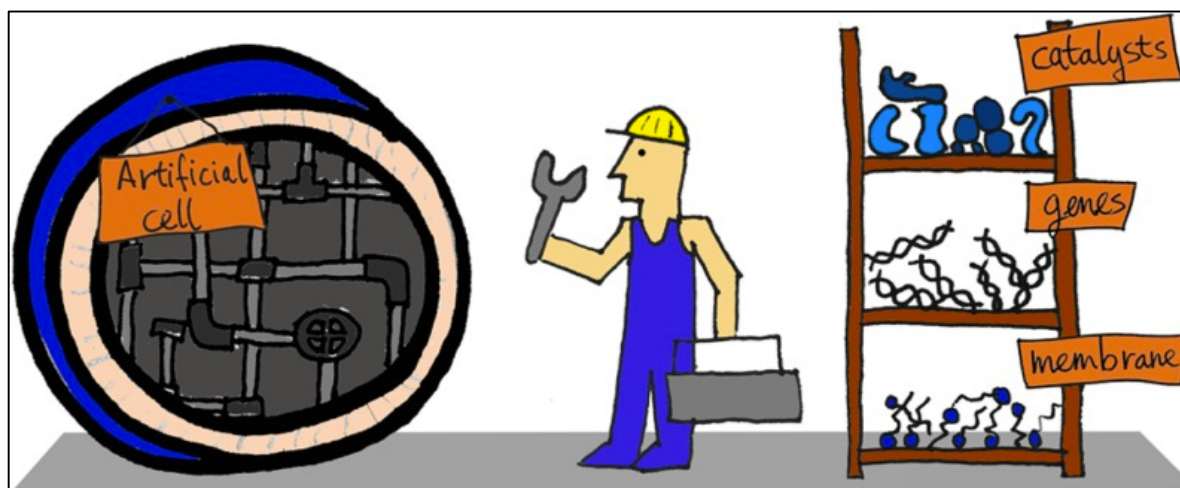
Mechanisms of cellular uptake: A comparison study between extracellular vesicles: Exosomes, Apoptotic bodies, Plasma membrane vesicles and beyond.

Summary of master project:

Are you a motivated student who would like to work in an interdisciplinary team of pharmacists, biologists and nanoscientists? Then this might be perfect for you. At the department of Pharmaceutical Sciences – Pharmaceutical Technology we are looking for one (optionally two) master students who will do their work in the field of nano-drug delivery. The projects are shared between the Dept. of Phys Chemistry (Schwerpunkt Physik) or Dept. of Biology (Schwerpunkt Biologie) and are executed at the Department of Pharmaceutical Sciences – Group Pharmaceutical Technology of Prof. Dr. Jörg Huwyler. Preferable start date is beginning / end of march. Project supervisor Dr. Tomaz Einfalt MPharm, a recent SNI PhD school graduate.

We have recently had great experience in our group with Nanoscience students doing their Master thesis at our department. For alumni information contact Claudio.alter@unibas.ch or f.wyss@unibas.ch. "Projektarbeiten" for shorter terms (2-3 months) are also possible.

The projects will include investigation of the mechanisms involved in the cellular uptake of modified extracellular vesicles (apoptotic bodies and exosomes). Experimental work will include state of the art preparation and characterization of various extracellular vesicles, independent work in cell culture under aseptic conditions, investigation of mechanisms of cellular uptake of the respective nanoassemblies by confocal laser scanning microscopy, fluorescence correlation spectroscopy, western-blotting and fluorescence activated cell sorting, proteomics. Other experimental techniques can also be included on the wish of the students.



Interested? Contact: tomaz.einfalt@unibas.ch

1.st deadline for applications 12.2.2018

2.nd deadline for applications 1.3.2018