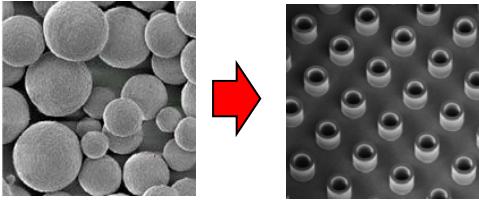


IDUN – Intelligent oral Drug delivery Using Nano and microfabricated containers – **The Team**

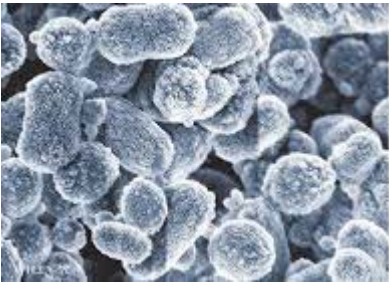


Motivation and Perspectives

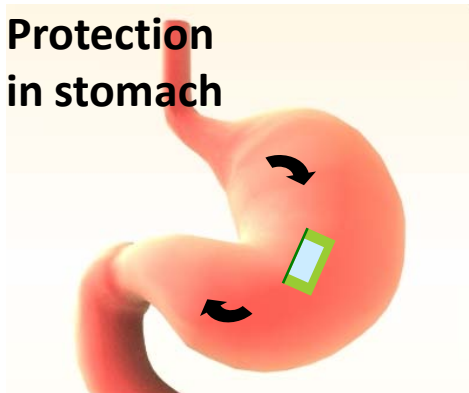
Monodispersity and customised dosage



Stabilize drugs



Protection in stomach



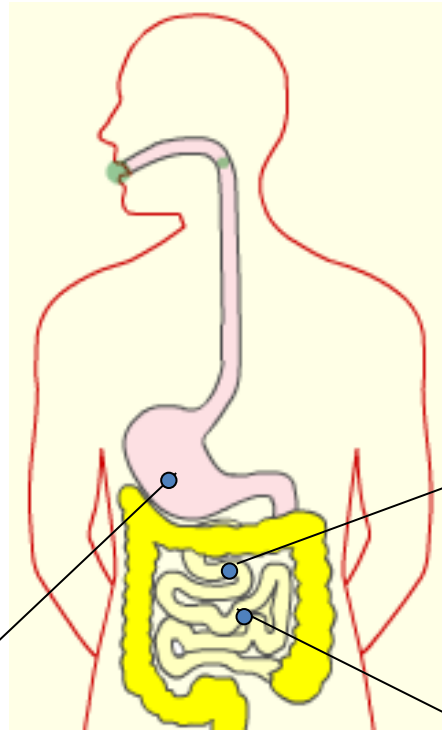
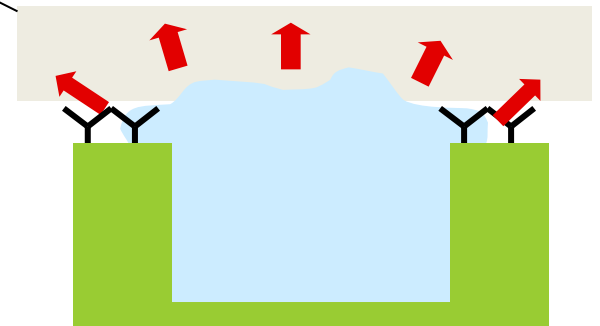
Combine drugs, permeation enhancers etc



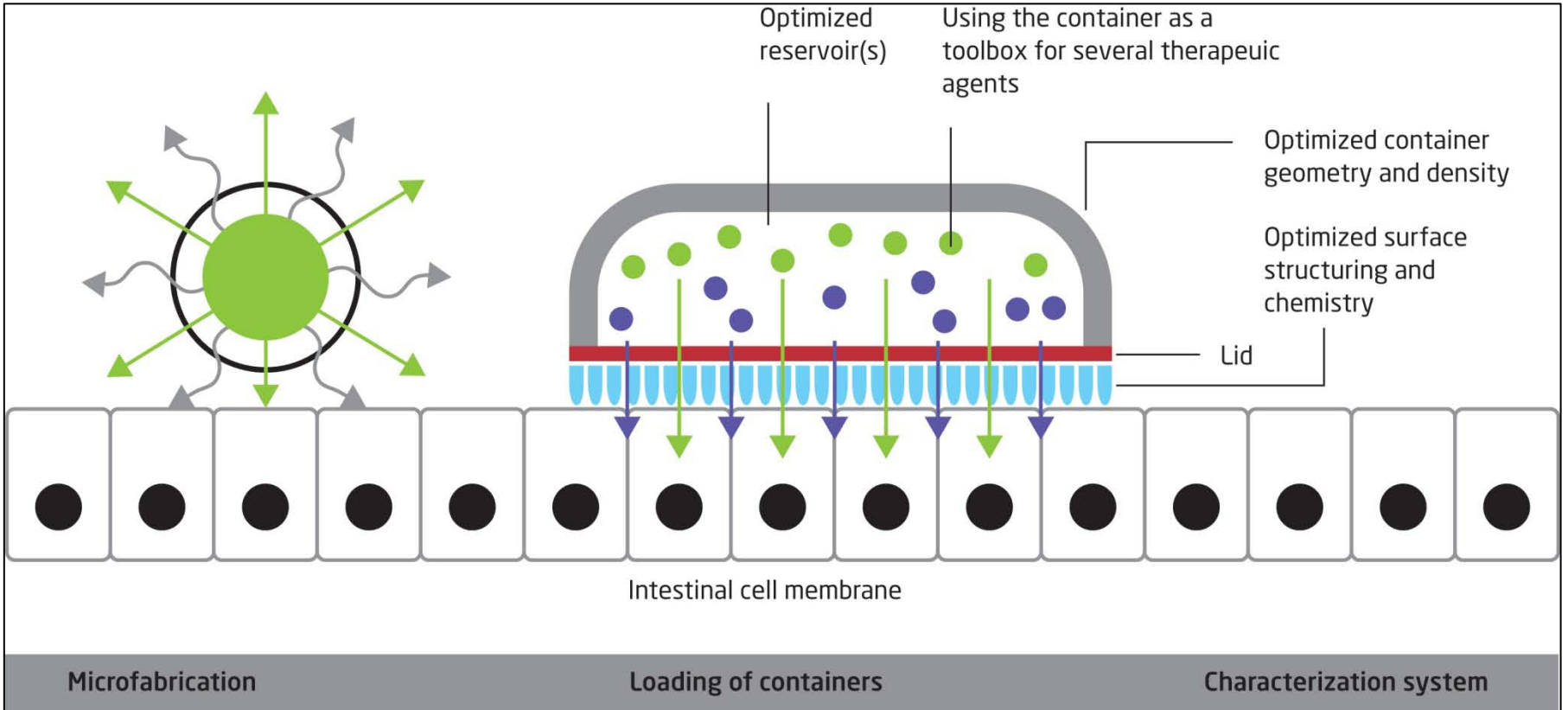
Control of release kinetics and place



Adhesion and unidirectional release in intestine



Idea and novelty



Structure/activities

1.  Container design optimization
2.  Reservoir and lid
3.  Surface structuring/coating
4.  Biocompatible micro-containers
5.  Loading of drugs
6.  Microsystem for in vitro characterization
7.  In vitro and in vivo studies

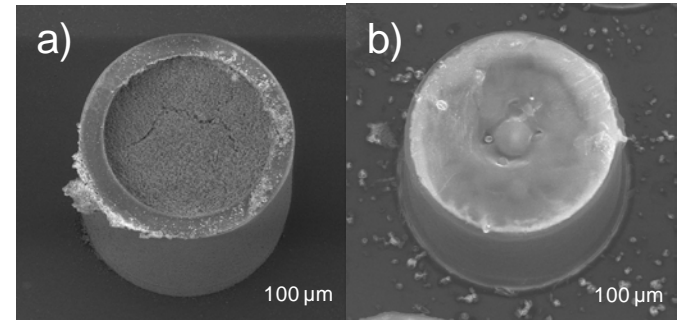
New results



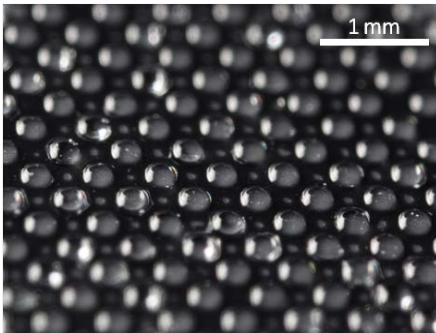
Biocomp. container



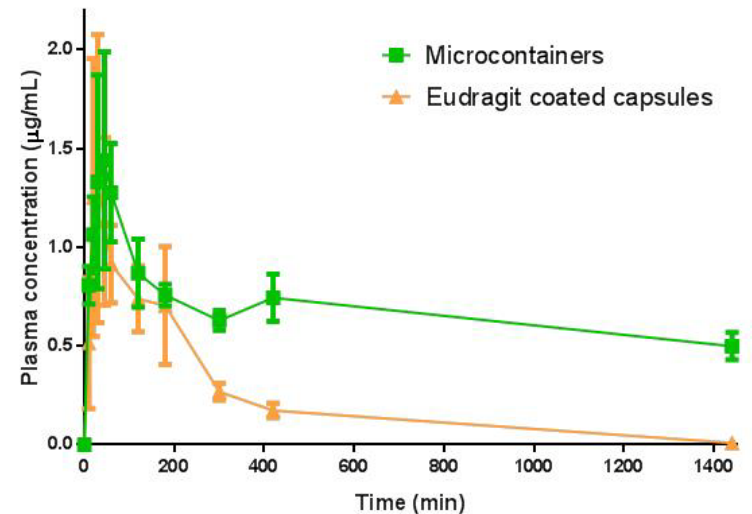
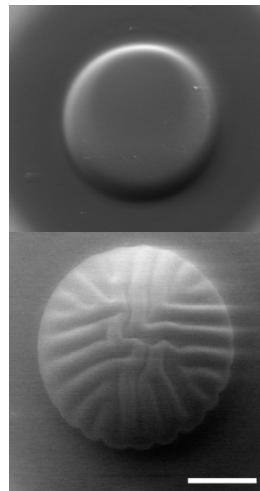
Intestinal perfusion



SU-8 containers with top coating



Hydrogel 'blobs' that swell



In vivo studies