

## Curriculum Vitae (abridged version) of Georgios Imanidis

Georgios Imanidis is head of the Institute of Pharma Technology at the School of Life Sciences, University of Applied Sciences Northwestern Switzerland and is full Professor at the University of Applied Sciences and titular Professor at the Faculty of Science of the University of Basel. In his current position, he established the Institute and introduced de novo research and teaching in Pharma Technology at the School of Life Sciences covering technical and biopharmaceutical aspects of the field. He developed the study curriculum with emphasis in pharmaceutical technology, established laboratory facilities for teaching and research encompassing chemical and biological drug entities, recruited six faculty members and built the working group of the Institute currently comprising 35 members. In its brief existence the Institute has established broad expertise and attained national and international recognition as a center of competence for pharmaceutical technology.

Prof. Imanidis developed and implemented mathematical modeling of physicochemical transport processes for the evaluation and prediction of drug delivery, drug absorption and performance of intestinal drug formulations in biorelevant *in vitro* models with accompanying media and preclinical *in vivo* models. This concept was implemented in Caco-2 cell culture-based investigation of cellular pharmacokinetics comprising phase I and phase II metabolism and influx and efflux of drug and metabolite and in preclinical animal model-based investigation for elucidating systemic drug exposure and intestinal targeted delivery, respectively.

He investigated drug formulation and delivery in (trans)dermal administration for treatment and prevention of skin disease and introduced mathematical model-based assessment of biological effect and formulation performance. The later was based on site-of-action active moiety concentration in cutaneous tissue in *in vitro* and *in vivo* model systems and viscoelastic formulation properties and formulation transformation providing a mechanistic understanding and predictability of the effect of medicinal product application.