



Physicochemical Profiling in Drug Discovery “Mini-Course”

Alex Avdeef, PhD. In-ADME Research, New York (USA)

I. DAY 1: THURSDAY NOVEMBER 12TH 2015 9:30 – 13:30h

Lecture 1: Introduction to Physicochemical Profiling in Drug Discovery & Early Development: *Ionization, Lipophilicity, Permeability, & Solubility*

Lecture 2: pH, pKa and Effects of Charge State on Drug Disposition

Lecture 3: Modeling Permeation with Artificial Membranes (PAMPA): Aqueous Boundary Layer (ABL) & pH-Optimized Design (pOD) in Permeation Studies

Lecture 4: Cellular Intestinal Transport Models: Caco-2/MDCK: *Black Lipid Membranes (BLM), Epithelial Monolayer Cell Models, ABL, Prediction of Absorption*

II. DAY 2: MONDAY NOVEMBER 16TH 2015 9:30 – 13:30h

Lecture 5: Intestinal Absorption Models: *Interplay of Permeability & Solubility as a Function of pH*

Lecture 6: Profiling Rate & Extent of Brain Penetration: *Using PAMPA, endothelial cells, rodent in situ brain perfusion, & differentiated brain microvascular endothelial cells from human pluripotent STEM CELLS*

Lecture 7: Solubility Methods in Drug Discovery

Lecture 8: Solubility Methods in Drug Development: *Salt Solubility, Drug Aggregates,*

Lloc: Aula del Departament de Química Analítica

Facultat de Química, 3^a planta

Inscripció prèvia a marti.roses@ub.edu indicant les dades personals i professionals.
Es lliurarà certificat d'assistència.