

The Making Of An Innovative Medicine – class schedule

Thursday's @ 4-6 PM except 04.12/11.12.25 @2-6 PM



- Session 1: Scope of the course _ general organization _ case study**
11.09.25 *Embracing a career at the heart of biomedical research !?*
CM013
- Session 2: Historical perspective: the modern pharmacy**
18.09.25 *Advent of modern medicines - placebo controlled drug development*
CM013
- Session 3: Introduction to translational research: crossing the bridge**
25.09.25 *A chasm has opened wide between biomedical research and patients in need*
CM013
- Sessions 4-5: Therapeutic target identification I & II**
02-09.10.25 *“me too” vs a wealth of innovative targets _ small MW cpds vs biologicals*
CM013
Early front loading of biomarker identification for cohort stratification
- Session 6: Structure based drug design _ medicinal chemistry_low/high throughput screening assays_ multiple parallel optimization_ML-powered screens**
16.10.25 *Setting up screening assays, the robotics, the million cpds libraries*
CM013
- Session 7: Therapeutic modalities peptides and biologicals: today's - tomorrow's pharmacy NBEs**
30.10.25 *Challenges (cost of goods - healthcare payers) and opportunities*
CM013

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Session 8: Personalized Healthcare PHC _ precision medicine

06.11.25 *How PHC started: from a single case to a paradigm change*

CM013

Session 9: Pharmacogenetic polymorphisms, Pharmacogenomics

13.11.25 *Interindividual variability toxicity in response to medicines*

CM013

Session 10: In vivo pharmacology, investigative toxicology with Nathalie Brandenberg PhD eMBA CEO

20.11.25 *Preclinical research ends up with IDB's, FDA guidelines for FIH*

CM013

Session 11: Clinical research_ phase 0, phase I, II, III, IV with Dr Raphael Sommer BMS

27.11.25 *The long and complex experimental procedures with human patients*

CM013

Intellectual property_ integrity in research_my genome vs our genomes

Why are patents essential to new medicine/biotech development

Session 12: Health Hackathon – Hacking medicine I with T. Ferrari & M. Ali Gadiri MD PhDs confirmed !

04.12.25 *Pitches –building teams – hacking problem - 5Ws – brainstorm*

starts @ 2PM ! CO017

Session 13: Health Hackathon – Hacking medicine II with judges Prof Olaia Naveiras - Prof J. Shukry

11.12.25 *Building up solutions – make it better - final presentations*

starts @ 2PM ! CO017