

Day2: July 19th

8:45 – 9:00

Attendee Arrival and Coffee

9:00 – 9:45

Zero intercept Method: Principles and Applications of ZIM (Konstantin Tsinman)

- Dual-component dissolution
- Monitoring for spectral consistency
- Solubility of nanoparticles
- Liquid-liquid phase separation (LLPS)

9:45 – 10:30

Group Discussion #3

Practical aspects of ZIM method implementation
– interactive practice. Nanoparticles solubility,
dual-component dissolution, LLPS.

10:30 – 10:45

Break

10:45 – 11:15

TBA (Konstantin Tsinman)

MacroFlux Dissolution for Generic Drug Product
Development of a Poorly Soluble Drug

11:15 – 11:30

Introduction to Calibration Service (Hideo Takeda)

11:30 – 13:00

Lunch

13:00 – 13:45

User Case Study (Masaaki Imono , Shionogi Pharma)

- Challenges of formulation nanocrystals
- Characterization of dissolution behavior
- In vitro / In vivo correlation

13:45 – 14:30

Group Discussion #4

Practical aspects – interactive data analysis,
different aspects. Data files for troubleshooting.

Pion Advanced Training Agenda

14:30 – 14:45

Break

14:45 – 15:15

Advanced Tools: Dissolution Curve Analysis (Konstantin Tsinman)

- Relations between dissolution, solubility, particle size, and hydrodynamics
- Intrinsic dissolution rate (IDR) measurements
- Predicting disk IDR from powder dissolution experiments
- Effective particle size estimation from the powder dissolution profile

15:15 – 15:30

Break

15:30 – 17:00

Track 1: FO and Flux Lab Demo (optional for all interested participants)

Closing the Training Course