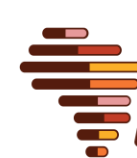


Drug Discovery and Development Course

11-14 Feb 2025



Grand Challenges
African Drug Discovery
Accelerator

	Tuesday	Wednesday	Thursday	Friday
09:00-09:45	Welcome and course overview Dr Susan Winks	6) Screening strategies and compound library assessment Dr Kirandeep Samby	12) Introduction to ADME profiling (metabolism & excretion) Prof Franco Lombardo	18) Preclinical studies Dr Kirandeep Samby
09:45-10:30	1) Introduction to drug discovery and development Dr Jeremy Burrows	7) Principles of compound optimisation Dr Greg Basarab	13) Modelling and simulation to accelerate drug discovery and development Dr Abdallah Derbalah	19) Translation from preclinical to clinical & building an integrated development plan Dr Cristina Donini
10:30-11:00	Tea/Coffee Break	Tea/Coffee Break	Tea/Coffee Break	Tea/Coffee Break
11:00-11:45	2) Identifying a suitable disease target Dr Bakela Nare	8) Hit-to-lead med chem optimization case studies Dr Greg Basarab	14) In vivo PK Prof Franco Lombardo	20) An overview of first-in-human trials (including analytical considerations in the design, analysis and interpretation of clinical studies) Dr Olawale Salami
11:45-12:30	3) Understanding/elucidating biological pathways and modes of action Dr Bakela Nare	9) Hit-to-candidate case studies Dr Jeremy Burrows	15) In vitro & in vivo disease/efficacy models Dr Bakela Nare	
12:30-13:30	Lunch	Lunch	Lunch	Lunch
13:30-14:15	4) Setting up assays for novel hit identification and compound profiling Dr Dirk Lamprecht	10) In silico approaches to drug design Dr Joe Eyermann	16) PK/PD relationships Dr Abdallah Derbalah	21) Case studies: translational & phase 2 Dr Cristina Donini
14:15-15:00	5) TPPs and screening cascades Dr Kirandeep Samby	11) Introduction to ADME profiling (absorption & distribution) Prof Franco Lombardo	17) Machine learning and mechanistic models Dr Abdallah Derbalah	22) Patent strategy - when to protect your innovation Dr Jeremy Burrows
15:00-15:30	Tea/Coffee Break	Tea/Coffee Break	Tea/Coffee Break	Tea/Coffee Break
15:30-17:00	Group work exercise 1	Group work exercise 2	Group work exercise 3	Group work consolidation Workshop consolidation and feedback Ms Nicola Elliott-Wong