



EVOluTION Summer School and Transferable Skills Training Wednesday 6th-Friday 8th September, 2017

Summer School: "The 'quest' for innovative targets and drugs"

<u>Day 1: 6th Sep – LifeArc, Stevenage, Bioscience Catalyst, Gunnels Wood Rd, Stevenage SG1</u> **2FX**

07.30 Minibus from London to Stevenage –pick up location: East gate of QMUL, corner of Westfield Way and Mile End Rd.

Introduction to drug discovery: Small Molecules and Antibodies.

Room Location: LifeArc - Keytruda

Chair: Debbie Taylor

09.30 Small molecule drug discovery
 10.15 Antibody Therapeutics
 Andy Merritt, LifeArc
 David Matthews, LifeArc

11.00 Tea / Coffee - Foyer

Target identification & validation

11.15 How to identify good targets for drug discovery Kerstin Papenfuss, LifeArc11.45 What is a validated target David Jones, LifeArc

12.15 Lab tours

13.00 Lunch - Foyer

New lead discovery – screening approaches.

Chair: Andy Merritt

14.00	Biochemical screening	Keith Ansell, LifeArc
14.30	Biophysical approaches	Pete Coombs, LifeArc
15.00	Phage screening	Arek Oleksy, LifeArc

15.30 Tea / Coffee - Foyer

Hit-to-lead and lead optimisation

15.45	Value of computational chemistry	Chido Mpamhanga, LifeArc
16.15	Medicinal chemistry strategies	Tim Chapman, LifeArc
16.45	Antibody Humanisation and Affinity Maturation	Preeti Bakrania, LifeArc









17.30 – Minibus departs to take attendees back to London

<u>Day 2: 7th Sep - QMUL, Charterhouse Square, Lister and Young Seminar Room, 2nd floor,</u> John Vane Science Centre, EC1M 6BQ

Lead discovery

Targeted approaches: Receptors, Enzymes, Channels, Epigenetic, Allosteric

Chair: Andy Merritt

09.30 Overview of targets Andy Merritt, LifeArc
 10.00 GPCR overview and case study about PAMs Jeff Jerman, LifeArc

Chair: Mauro Perretti

10.30 Plenary Lecture

John Wallace, University of Calgary

Developing a Novel Anti-Inflammatory Drug: Trials and Tribulations

11.15 Tea / Coffee

Phenotypic approaches:

Chair: Andy Merritt

11.45 Phenotypic Screening – TDP43 Emily Bureau, LifeArc
 12.15 Wnt signalling assays Mark Stubbs, ICR

12.45 Lunch and ESR journal club

Genetic Approaches to Targets

Chair: Debbie Taylor

14.00	100, 000 genomes project	Mark Caulfield; GeL
14.30	Epigenetic targets for the treatment of	David Tough, GSK
	human disease	

15.00 Computational Biology and bioinformatics Mike Barnes, QMUL

15.30 Tea / Coffee

In vitro and In vivo challenges of drug discovery:

16.00 Introduction to PK and metabolism Elizabeth Allen KCL and In vitro PK and ADME assays Quintiles
In vivo PK, PD and ADME models

19.00 – 22.00 Summer School Dinner for attendees

Location: The Peasant, 240 St John street London EC1V 4PH









Transferable Skills Training Day "Knowledge exploitation: IP and Commercial exploitation"

<u>Day 3: 8th Sep - QMUL, Charterhouse Square, Lister and Young Seminar Room 2nd floor,</u> <u>John Vane Science Centre, EC1M 6BQ</u>

Chair: Mauro Perretti

10.00 Introduction to Intellectual Property Law
 Paula Alessandro, QM Innovations
 Development and commercialisation through licensing
 Georgia Gliki, LifeArc of the Cytosponge - A Case Study

10.30 Tea / Coffee

Kilburn and Strode - Sarah Lau and Michael Newton

- 11.00 IP protection NDAs, trademarks, invention capture/ drafting patent applications
- 11.30 IP management The patent process / international stage / filing strategies/ freedom to operate / costs involved in maintaining the patent
- 12.00 IP exploitation
- 12.30 Lunch
- 13.30-15.30 WP6 exploitation module with ESRs, Kilburn and Strode and LifeArc brainstorming / interactive session.

End of Summer School









Getting to Charterhouse Square

The nearest tube station for Charterhouse square is Barbican – After exiting Barbican station at street level turn left, then take the first left into Carthusian Street and the first right into Charterhouse Square. If you keep going you will come to a little gatehouse at the top of Rutland Place, which leads to the campus, and the John Vane Science Centre is at the corner of the campus diagonally opposite the gatehouse.

Signs will direct you to the Lister and Young Seminar room which is located on the second floor of the John Vane Science Centre.



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