

THERACAT Training Event 2

Date: 23-27 September 2019, Basel, Switzerland

Place: University of Basel – Mattenstrasse 24a, 4058 Basel, BPR1060 / BPR 1095

Travel: From Basel SBB: tram number 2 to Badischer Bahnhof.

From Bildungszentrum21: number 30 bus from Spalentor to Badischer Bahnhof/

Proposed accommodation: Hotel Bildungszentrum 21

Attendees:

- *ESRs*
 - Michela Vargiu (GRO)
 - Shreyas Wagle (TAU)
 - Krishna Vippala (TEVA)
 - Anjana Sathyan (TUE)
 - Stephen Croke (EDI)
 - Manos Arxontakis (TUE)
 - Alis Olea (IBEC)
 - Linlin Deng (TUE)
 - Africa Galvez (BGX)
 - Boris Lozhkin (BAS)
 - Melissa van de L'Isle (EDI)
 - Maria Vlastara (TAG)
 - Daniel Rodriguez (TAU)

- *Consortium Management*
 - TUE: Anja Palmans
 - BAS: Thomas Ward
 - EDI: Asier Unciti-Broceta
 - TEVA: Bianca Avramovitch

Training Event 2: Chemical Synthesis & Catalysis (23rd – 27th September, 2019)

Monday 23rd September 2019: Safety in chemical laboratories and research in industry and academia (BPR, Building 1060, seminar room 2.14)			
Schedule	Activity	Responsible	Attendees
09:00-10:15	Safety in the lab (Part 1)	Palmans	ESRs
10:15-10:30	Break	-	ESRs
10:30-12:00	Safety in the lab (Part 2)	Palmans	ESRs
12:00-13:00	<i>Lunch</i>	-	<i>ESRs</i>
13:00-17:30	Novartis' tour	Gallou (Novartis)	ESRs

Tuesday 24th September 2019: Prodrugs – design principles, synthesis and preliminary evaluation (BPR, Building 1060, seminar room 2.14)			
Schedule	Activity	Responsible	Attendees
09:00-09:15	Introduction	Unciti-Broceta	ESRs
09:15-10:45	Lecture 1 (Historical overview of prodrugs)	Unciti-Broceta	ESRs
10:45-11:00	Break	-	ESRs
11:00-12:30	Lecture 2 (Bioorthogonal prodrugs 1)	Unciti-Broceta	ESRs
12:30-13:30	<i>Lunch</i>	-	<i>ESRs</i>
13:30-15:00	Lecture 3 (Bioorthogonal prodrugs 2)	Unciti-Broceta	ESRs
15:00-15:30	Break	-	ESRs
15:30-17:00	Lecture 4 (Challenges to progress metal-activated prodrugs into the clinic)	Unciti-Broceta	ESRs

Wednesday 25th September 2019: Catalysts and catalysis – from the synthetic utilization to artificial enzymes (BPR, Building 1060, seminar room 2.14)

Schedule	Activity	Responsible	Attendees
08:30-08:45	Introduction	Ward	ESRs
08:45-09:45	Reaction- and Stereocontrol through Organocatalytic Activation Strategies	Sparr (BAS)	ESRs
09:45-10:45	Constructing rings by Pd ⁰ -catalyzed C-H activation	Baudoin (BAS)	ESRs
10:45-11:00	Break	-	ESRs
11:00-12:00	Asymmetric catalysis with chiral metal complexes: general strategies and ligand design	Pfaltz (BAS)	ESRs
12:00-13:00	Catalysis inside the Supramolecular Resorcinarene Capsule	Tiefenbacher (BAS)	ESRs
13:00-14:15	<i>Lunch</i>	-	<i>ESRs</i>
14:15-15:15	Enzyme Catalyzed C-S Bond Forming Reactions	Seebeck (BAS)	ESRs
15:15-16:15	Catalytic reactions in nano- microcompartments: How to build a bio-synthetic lego?	Palivan (BAS)	ESRs
16:15-16:30	Break	-	ESRs
16:30-17:30	Directed evolution of oxidoreductases using single-cell hydrogel capsules	Nash (BAS)	ESRs
17:30-18:30	Artificial Metalloenzymes: Challenges and Opportunities	Ward (BAS)	ESRs
18:30-18:45	Concluding remarks	Ward (BAS)	ESRs

Thursday 26th September 2019: How can we do better in bringing new molecules to the market – scaling up, formulations, regulations, procedures and economical aspects (BPR, Building 1060, seminar room 2.14)

Schedule	Activity	Responsible	Attendees
09:00-10:15	A drug product pathway to the market (Part 1)	Avramovitch	ESRs
10:15-10:30	Break	-	ESRs
10:30-12:00	A drug product pathway to the market (Part 2)	Avramovitch	ESRs
12:00-13:00	<i>Lunch</i>	-	<i>ESRs</i>
13:00-14:15	A drug product pathway to the market (Part 3)	Avramovitch	ESRs
14:15-14:30	Break	-	ESRs
14:30-16:30	A drug product pathway to the market (Part 4 & quiz)	Avramovitch	ESRs
16:30-17:00	Summary of the day, gaps and planning ahead	Avramovitch	ESRs
19:15	Dinner at Aroma , Auf der Lyss 14, 4051 Basel	-	All

Friday 27th September 2019: IP and commercial exploitation (BPR, Building 1095, seminar room E00.012)

Schedule	Activity	Responsible	Attendees
08:30-10:15	Part 1 (Introduction, objectives of the workshop & overview of day; Basic concepts of intellectual property)	Mueller (IPI)	ESRs
10:15-10:30	Break	-	ESRs
10:30-12:00	Part 2 (Copyright, design, trademarks; Patents, basic concepts)	Mueller (IPI)	ESRs
12:00-13:00	<i>Lunch</i>	-	<i>ESRs</i>
13:00-14:30	Part 3 (Patent rights in biotech / pharma; Understanding the content of a patent (exercise: writing a claim))	Mueller (IPI)	ESRs
14:30-15:00	Break	-	ESRs
15:00-16:30	Part 4 (Patenting strategies; Patent information as knowledge source; Q&A)	Mueller (IPI)	ESRs