

PROGRAMME

Spring Semester 2022		
	Molecular Interactions: Classical (Charges, H-Bonds, v.d. Waals, π -int.)	
	Molecular Interactions: Non-Classical (Weak H-Bonds, Orthogonal Multipolar Interactions, Sigma hole Interactions / Halogen Bonds)	
	Thermodynamics in drug discovery (in Hit2Lead / LeadOpt)	
	Prof. Dr. Frank M. Boeckler Lab for Molecular Design & Pharm. Biophysics	
Friday, 4 March	Chair for Medicinal Chemistry Department of Pharmacy and Biochemistry	
2022	Eberhard Karls University Tuebingen	
	Molecular Complexity / Drug, Discovery Process and Technologies -	
	Strategies, Issues, Costs, Outlook.	
	Fragment-based Drug Discovery	
	Hit-to-Lead optimization, Co-optimizing Ligand Properties, Avoiding late	
	Attrition	
	Prof. Dr. Frank M. Boeckler Lab for Molecular Design & Pharm. Biophysics	
Friday, 11 March	Chair for Medicinal Chemistry Department of Pharmacy and Biochemistry	
2022	Eberhard Karls University Tuebingen	
	Animal models (ethical considerations, experimental design, in vivo analysis	
Friday, 18 March	of drug effects)	
2022	In vitro cell culture models and evaluation of drug effects	

	Prof. María F. Cano Abad Facultad de Medicina. Universita Autonoma
	Madrid
	Dr. Gratiela Gradisteanu, Research Institute of Bucharest University
	Dr. Miruna Stan, Bucharest University Faculty of Biology
	Immunomodulation
	Drug impact on cytokine production and on the M1/M2 macrophage
	phenotype
	Evaluation drug-induced responses in cultured cells at specific time points
	(cell cycle analysis and apoptosis). Screening of drug-induced reactive oxygen species production in leukocytes
	subpopulations in whole blood (ex-vivo)
Friday, 25 March	Assoc Prof. Luminita Marutescu Bucharest University Faculty of Biology
2022	Dr. Gratiela Gradisteanu, Research Institute of Bucharest University
	Biophysical assays for high throughput screening
	Microcalorimetry ITC, DSC nanoDSF analytical Ultracentrifugation, SPR
Friday, 1 April 2022	Prof. Francois Devred, Faculty of Pharmacy Aix-Marseille Université,
	Introduction to NMR
	NMR screening in drug discovery
	Introduction to NMR based metabolomics
	Prof. Emmanuel Mikros, Faculty of Pharmacy, National Kapodistrian
Friday, 8 April 2022	University of Athens,
	Pharmacokinetics
Friday, 15 April	ADME properties
2022	Prof. Florence Gattacceca Faculty of Pharmacy Aix-Marseille Université,
	Facts, and principles in drug discovery and development: the molecular drug
Friday, 22 April	space selection and optimization
2022	Prof. Sandrine Alibert Faculty of Pharmacy Aix-Marseille Université,
Friday, 29 April	Introduction to ligand-based methods: Pharmacophore modeling, QSAR
2022	Prof. Rino Ragno Faculty of Pharmacy, La Sapienza University,
	Advanced ligand-based method: 3-D QSAR with some cross-talking to
Emidory 6 Mars 2022	structure-based techniques.
Friday, 6 May 2022	Prof. Rino Ragno Faculty of Pharmacy, La Sapienza University,
Friday, 13 May 2022	Introduction to epigenetics and related drugs
Filuay, 15 Way 2022	Antonello Mai Faculty of Pharmacy, La Sapienza University Clinical Trials
	Prof. Evangelos Terpos, School of Medicine, National Kapodistrian
Friday, 20 May 2022	University of Athens
11100, 20 may 2022	Regulatory Affairs
	Prof. Pietro Matricardi Faculty of Pharmacy, La Sapienza University
	Patent writing and Application
Friday, 27 May 2022	Dr Dimitris Roukounas Patent Attorney
111uay, 27 Way 2022	Di Dimiti S Koukounas i aceit Attorney

	Student's Week July 4-8 2022	
	Monday, 4 July 2022	
09:00-10:00	Kinases structural insights for drug development	
	Ass. Prof. Vasilios Myrianthopoulos, Faculty of Pharmacy, National Kapodistrian	
	University of Athens	
10:00-11:00	Recent advances in Anticancer agents	
	Prof. Panagiotis Marakos, Faculty of Pharmacy, National Kapodistrian University of	
	Athens	
11:00-12:00	Recent advances in Antiviral agents	
	Prof. Nicole Pouli, Faculty of Pharmacy, National Kapodistrian University of Athens	
14:00-15:00	Practical aspects in building (3D-) QSAR models and their validation	
	Prof. Rino Ragno Faculty of Pharmacy, La Sapienza University,	
15:00-16:00	Understanding and Applying Halogen-Bonds in Molecular Design and Lead	
	Discovery	
	Prof. Dr. Frank M. Boeckler Lab for Molecular Design & Pharm. Biophysics Chair for	
	Medicinal Chemistry Department of Pharmacy and Biochemistry Eberhard Karls	
	University Tuebingen	
	Methods for the in vitro assessment of antimicrobial activity	
16:00-17:00	Assoc. Prof. Luminita Marutescu Bucharest University Faculty of Biology	
-	Department of Microbiology and Immunology luminita.marutescu@bio.unibuc.ro	
17:00-18:00	In vitro and in silico cardiac safety drug testing: advancing the CiPA paradigm	
	Professor Bogdan Amuzescu, Faculty of Biology, Department of Biophysics	
	Bucharest University	
09:00-10:00	Tuesday, 5 July 2022 TBA	
09.00-10.00	Prof. María F. Cano Abad Facultad de Medicina. Universita Autonoma Madrid	
10:00-11:00	Introduction to physiologically-based modelling	
10.00-11.00	Prof. Florence Gattacceca Faculty of Pharmacy Aix-Marseille Université,	
11:00-12:00	Using physicochemical properties to understand molecule behaviour in environment	
11.00-12.00	pertinent to pharmacological activity.	
	Prof. Sandrine Alibert Faculty of Pharmacy Aix-Marseille Université	
14:00-15:00	Cardiovascular Pharmacology	
11.00 12.00	Prof. Ioanna Andreadou, Faculty of Pharmacy, National Kapodistrian University of	
	Athens	
15:00-16:00	Natural Products in Drug Discovery	
	Prof. Maria Halabalaki Faculty of Pharmacy, National Kapodistrian University of	
	Athens	
16:00-17:00	ТВА	
	Prof. Antonello Mai Faculty of Pharmacy, La Sapienza University	
17:00-18:00	Lab Visit Faculty of Pharmacy National Kapodistrian University of Athens	
Wednesday, 6 July 2022		
09:00-12:00	DSF in Hightroughput Screening	
07.00-12.00		
	Coordinator Prof. Francois Devred, Faculty of Pharmacy Aix-Marseille Université	

14:00-17:00	Gastroplus ADMET predictor to screen gastro-intestinal absorption and metabolism properties Coordinator Prof. Florence Gattacceca Faculty of Pharmacy Aix-Marseille Université	
Thursday, 7 July 2022		
09:00-12:00	3D QSAR practical course	
	Coordinator Prof. Rino Ragno Faculty of Pharmacy, La Sapienza University	
14:00-17:00	NMR practical course	
	Coordinator Prof. Emmanuel Mikros, Faculty of Pharmacy, National Kapodistrian University of Athens,	
Friday, 8 July 2022		
09:00-12:00	Student oral presentation -Discussion	
14:00-17:00	Student oral presentation -Discussion	