

MCIB-IV CALENDAR (updated 21 Sept 2020).

Most classes will be at the CIB (computer room at CSIC Campus Ciudad Universitaria). Mon 21<sup>st</sup> Jan at IQFR ([www.iqfr.csic.es](http://www.iqfr.csic.es))

**Text in black:** research topics lectures. **Text in blue:** advanced methods and practical sessions. **Text in grey:** Journal club sessions and lab rotations

January - 2021 – BIOMED: Cell Biology and Biomedicine

	Mon JAN 11	Tue JAN 12	Wed JAN 13	Thu JAN 14	Fri JAN 15
		<b>Pathology CANCER</b>	<b>Pathology CANCER</b>	<b>Pathology NEURODEGENERATIVE DISEASES</b>	<b>Immunology Basic concepts of immune response</b>
09:00 – 10:00		General concepts in cancer metastasis ( <i>I Casal</i> ).	Cell death/apoptosis targeting in cancer therapy ( <i>FMollinedo</i> )	Role of autophagy in neurodegeneration ( <i>PBoya</i> )	Introduction to the immune response ( <i>JMRojo</i> )
10:10-11:10		Colon carcinoma: Proteomics for target identification ( <i>I Casal</i> )	Revisiting angiogenesis and the innate immune response in cancer therapy ( <i>Alicia G. Arroyo</i> )	Functional bacterial amyloids... and bacteria as models of amyloid diseases ( <i>RGiraldo, CNB</i> )	New approaches to the immune response: transcriptomics of macrophages ( <i>AL Corbí</i> )
11:10-11:30		Break	Break	Break	Break
11:30-12:30		Melanoma as a model ( <i>JTeixidó</i> )	Antibody therapy and immunotherapy in leukemia ( <i>Jose A. García-Sanz</i> )	Drug discovery in neurodegeneration ( <i>A Martínez</i> )	<b>Immunofluorescence</b> ( <i>Olga Criado</i> )
12:30-13:40		Adult stem cells and their relationship with cancer stem cells ( <i>JA García-Sanz</i> )		Development therapies for retinal neurodegeneration ( <i>C Hernández</i> )	

		<b>Tue JAN 19</b>	<b>Wed JAN 20</b>	<b>Thu JAN 21</b>	<b>Fri JAN 22</b>
	<b>Immunology Regulatory mechanisms of immune response</b>	<b>Immunology: Immune response to pathogens</b>	<b>Medicinal chemistry &amp; drug design</b>	<b>Medicinal chemistry &amp; drug design</b>	
09:00 – 10:00	Basic concepts on antigen presentation: the antigen presenting cell ( <i>Jose L. Rodríguez Fernández</i> )	Adaptation of pathogenic Gram-positive bacteria to eukaryotic niches ( <i>Alicia Bravo</i> )	Drug discovery ( <i>Carmen Gil</i> )	Synthetic combinatorial chemistry ( <i>R Pérez</i> )	
10:10-11:10	The complement system ( <i>Santiago Rodríguez de Córdoba</i> )	Immune response to virus infection ( <i>María Montoya</i> )	Orphan drugs: production and regulations ( <i>Luisa Botella</i> )	Molecular approaches to the nutritional prevention of metabolic diseases (Beatriz Sarriá / Sonia Ramos – <i>ICTAN</i> )	
11:10-11:30	Break	Break	Break	Break	
11:30-12:30	Immune evasion of the human complement system ( <i>Cristina Vega</i> )	Antimicrobial peptides: effectors of innate immunity, and use as new anti-infectious weapons ( <i>Luis Rivas</i> )	Pharmaceutical Chemistry: the art of designing drugs ( <i>SMSantamaría</i> )	<a href="#">Spectroscopic assays for drug evaluation</a> ( <i>F Díaz</i> )	
12:30-13:40			<a href="#">Docking: practical session</a> ( <i>SMSantamaría</i> )		

	Mon JAN 25	Tue JAN 26	Wed JAN 27	Thu JAN 28	Fri JAN 29
	<b>Medicinal chemistry &amp; drug design</b> <i>IQFR</i> <a href="http://www.iqfr.csic.es">www.iqfr.csic.es</a>				
09:00 – 10:00	Bacterial surface proteins as therapeutic targets. General concepts from the structural biology ( <i>Juan Hermoso</i> )		JOURNAL CLUB		
10:10-11:10	PPIs as drug target ( <i>María José Sánchez Barrena</i> )		JOURNAL CLUB		
11:10-11:30	Break				
11:30-12:30	Structural data bases in ligand modelling in proteins ( <i>L Infantes</i> )				EXAM
12:30-13:40	Advanced fluorescence micro-spectroscopy ( <i>Pilar Lillo</i> )				