

	Monday Nov 28th	Tuesday Nov 29th	Wednesday Nov 30th	Thursday Dec 1st	Friday Dec 2nd	Saturday Dec 3rd	Sunday Dec 4th	Monday Dec 5th	Tuesday Dec 6th	Wednesday Dec 7th	Thursday Dec 8th	Friday Dec 9th	
	INTRO TO PARASITES			STRUCTURAL DAY		EPIGENETICS	DAY OFF	MOLECULAR BIOLOGY TOOLS					
8:00 - 9:00	Introduction to the Apicomplexan phylum. Introduction to Toxoplasmosis and <i>Toxoplasma gondii</i> . Lecturer: María E. Francia	Avian malaria. Lecturer: Erica Martins Braga	Sexual recombination in <i>Cryptosporidium</i> . Lecturer: Boris Striepen	The ultrastructure of the <i>Toxoplasma gondii</i> tachyzoites. Lecturer: Erica Dos Santos Martins Duarte	Introduction to mechanisms of gene expression regulation. Lecturers: Sheila Nardelli and Andrea Avila	Histone variants as molecular landmarks for gene expression regulation in apicomplexans. Lecturer: Sergio Angel		CRISPR/Cas9 genome wide screen for the study of flagellar proteins using <i>Leishmania</i> as a model. Lecturer: Eva Gluenz	Introduction to the ultrastructure of <i>Giardia intestinalis</i> . Lecturer: Victor Midlej	Introduction to trichomoniasis and <i>Trichomonas spp.</i> Lecturer: Natalia de Miguel	Extracellular vesicles and their role in pathogenicity and drug resistance in <i>Giardia lamblia</i> . Lecturer: Carolina Touz	The VEuPathDB experience. Lecturer: Omar Harb	
9:00 - 10:00	Introduction to <i>Plasmodium spp.</i> and malaria. Lecturer: Rogerio Amino	Human malaria; infection and immunity. Lecturer: Rogerio Amino	Organoid High-Throughput Screening Platform for drug screening in <i>Cryptosporidiosis</i> . Lecturer: Mattie Pawlowic	<i>Plasmodium</i> in light of Cryo-EM ultrastructure. Lecturer: Chi-Min Ho	The sexual cycle and sexual differentiation in <i>Toxoplasma gondii</i> . Lecturer: Bruno Martorelli	AP2 mediated gene expression regulation in malaria parasites. Lecturer: Manuel Llinas		Genome wide CRISPR screens in <i>Toxoplasma gondii</i> . Lecturer: Sebastian Lourido (virtual)	Drug Screening of <i>Toxoplasma gondii</i> ; experiences with clinical isolates. Lecturer: Erica Dos Santos Martins Duarte	Ultrastructural Hallmarks of Autophagy in Pathogenic Protozoa. Lecturer: Victor Midlej	Introduction to Leishmaniasis and <i>Leishmania spp.</i> Lecturer: Camila Indiani de Oliveira	Immunity and diagnosis of Leishmaniasis. Lecturer: Camila Indiani de Oliveira	
10:15-10:30	Coffee Break												
10:30-11:30	Introduction to <i>Neospora caninum</i> . Lecturer: Tiago Mineo	Epidemiology and Immunology of Neosporosis. Lecturer: Tiago Mineo	The inner workings of cell division in <i>Toxoplasma gondii</i> . Lecturer: Maria E. Francia	The ultrastructure of the secretion machinery; clues from evolution. Lecturer: Maryse Lebrun	Never too late to change your career path. Lecturer: Ellen Yeh	The molecular basis of gene expression regulation in <i>Toxoplasma gondii</i> . Lecturer: Andrea Avila		Diatoms as model organisms for the study of apicomplexan biology. Lecturer: Ellen Yeh	High throughput Drug screening in trypanosomatids. Lecturer: Marcelo Comini	Introduction to giardiasis and <i>Giardia spp.</i> drug resistance and epidemiology. Lecturer: Carolina Touz	Gene expression regulation in <i>Trichomonas spp.</i> Experiences with Hi-c technologies. Lecturer: Natalia de Miguel	Effective and empathetic mentoring. Lecturer: Gustavo Arrizabalaga	
11:30 - 12:30	Introduction to Cryptosporidiosis and <i>Cryptosporidium spp.</i> Lecturer: Sumiti Vinayak (Virtual)	How to make a parasite deliver for you. Lecturer: Lilach Sheiner	Vaccine development tackling host cell invasion. Lecturer: Maryse Lebrun	Cryo-EM applied to the ultrastructure of mitochondrial cristae in <i>Toxoplasma gondii</i> Lecturer: Lilach Sheiner	How to build an outstanding CV. Lecturer: Boris Striepen	Histone modifications; the epigenetic code of <i>Toxoplasma gondii</i> . Lecturer: Sheila Nardelli		Genomewide HyperLOPIT, and the use of <i>Perkinsus</i> as a model organism. Lecturer: Ross Waller (virtual)	Gene expression regulation in Trypanosomatids. Lecturer: Andrea Avila	Ultrastructure of the pathogenic trichomonads. Lecturer: António Pereira Neves (virtual)	From phosphatases to mitochondria in Apicomplexa. Lecturer: Gustavo Arrizabalaga	Experiences from the multicellular world of parasitic genetics. Lecturer: Jose Tort.	
12:30 - 1:30	LUNCH												
1:30 - 4:00	PRACTICAL MODULE : Cell Culture, Mutagenesis, Microscopy, Flow Cytometry Coordinator: Mathieu Gissot Teaching Assistants: Ramiro Tomasina and Leandro Tana							Poster Session I / flash talks					
4:00 - 4:30	Coffee Break												
4:30 - 7:00	PRACTICAL MODULE : Cell Culture, Mutagenesis, Microscopy, Flow Cytometry Coordinator: Mathieu Gissot Teaching Assistants: Ramiro Tomasina and Leandro Tana							Poster Session I Group A Presentations; Practical Module I					
7:00 pm - to =								Module I closing dinner					
									Poster Session II / flash talks	PRACTICAL MODULE: bioinformatics, VEuPathDB, genome assembly and annotation, structure/function predictions. Coordinators: Omar Harb, Luisa Berna and Martín Graña			
									Practical Module II Kick off	Coffee Break PRACTICAL MODULE: bioinformatics, VEuPathDB, genome assembly and annotation, structure/function predictions. Coordinators: Omar Harb, Luisa Berna and Martín Graña Group B Presentations; Practical Module II			
													Farewell Dinner on us