fundamentalsinneuroscience

Programme

Week 1 - September 6th to September 10th

Monday, September 6 th	
14:00 - 14:10	Course presentation - Fernanda Marques, Hugo Almeida, Tiago Gil Oliveira [G2.02]
14:10 - 15:00	The nervous system cells and their origin - Hugo Almeida [G2.02]
15:00 - 16:00	Brain Anatomy - Tiago Gil Oliveira [G2.02]
13.00 - 10.00	Coffee-break [G2.01]
16:30 - 18:00	Brain Anatomy - hands-on - João Carlos Sousa, Fernanda Marques, Hugo Almeida, Tiago Gil Oliveira [Lab I2.04]
Tuesday, September 7 th	
09:00 - 10:00	Sensory Systems - João Cerqueira [G2.02]
10:00 - 11:00	Motor Systems - João Cerqueira [G2.02]
	Coffee-break [G2.01]
11:30 - 13:00	Nervous impulse - Hugo Almeida [G2.02]
	Lunch
14:00 - 15:00	Barriers of the brain and brain metabolism - Fernanda Marques [G2.02]
15:00 - 16:00	Neurotransmission and neurotransmitters - João Carlos Sousa [G2.02]
	Coffee-break [G2.01]
16:30 - 17:30	Learning and Memory - Nuno Sousa [G2.02]
Wednesday, September 8 th	
09:00 - 10:00	Emotional and Cognitive Behavior - Hugo Almeida [A2.09]
	Coffee-break [G2.01]
	Conce break [C2.01]
10:30 - 11:30	Regulatory Systems - neuroendocrinology - Joana Palha [A2.09]
10:30 - 11:30	
10:30 - 11:30 14:00 - 18:00	Regulatory Systems - neuroendocrinology - Joana Palha [A2.09]
	Regulatory Systems - neuroendocrinology - Joana Palha [A2.09] Lunch Mini-workshop: A Primer on Brain Imaging - Tiago Gil Oliveira, Neuroimaging team [A2.09]
14:00 - 18:00	Regulatory Systems - neuroendocrinology - Joana Palha [A2.09] Lunch Mini-workshop: A Primer on Brain Imaging - Tiago Gil Oliveira, Neuroimaging team [A2.09]
14:00 - 18:00 Thursday, Sep	Regulatory Systems - neuroendocrinology - Joana Palha [A2.09] Lunch Mini-workshop: A Primer on Brain Imaging - Tiago Gil Oliveira, Neuroimaging team [A2.09] otember 9 th
14:00 - 18:00 Thursday, Sep	Regulatory Systems - neuroendocrinology - Joana Palha [A2.09] Lunch Mini-workshop: A Primer on Brain Imaging - Tiago Gil Oliveira, Neuroimaging team [A2.09] otember 9 th Brain Anatomy - hands-on - Fernanda Marques, Hugo Almeida, Tiago Gil Oliveira [Lab A1.14]
14:00 - 18:00 Thursday, Sep 09:00 - 10:30	Regulatory Systems - neuroendocrinology - Joana Palha [A2.09] Lunch Mini-workshop: A Primer on Brain Imaging - Tiago Gil Oliveira, Neuroimaging team [A2.09] otember 9 th Brain Anatomy - hands-on - Fernanda Marques, Hugo Almeida, Tiago Gil Oliveira [Lab A1.14] Coffee-break [G2.01]
14:00 - 18:00 Thursday, Sep 09:00 - 10:30	Regulatory Systems - neuroendocrinology - Joana Palha [A2.09] Lunch Mini-workshop: A Primer on Brain Imaging - Tiago Gil Oliveira, Neuroimaging team [A2.09] otember 9 th Brain Anatomy - hands-on - Fernanda Marques, Hugo Almeida, Tiago Gil Oliveira [Lab A1.14] Coffee-break [G2.01] Behavioral Flexibility and decision-making - Pedro Morgado [A2.09]
14:00 - 18:00 Thursday, Sep 09:00 - 10:30 11:00 - 12:00	Regulatory Systems - neuroendocrinology - Joana Palha [A2.09] Lunch Mini-workshop: A Primer on Brain Imaging - Tiago Gil Oliveira, Neuroimaging team [A2.09] otember 9 th Brain Anatomy - hands-on - Fernanda Marques, Hugo Almeida, Tiago Gil Oliveira [Lab A1.14] Coffee-break [G2.01] Behavioral Flexibility and decision-making - Pedro Morgado [A2.09] Lunch Motor Behavior - Sara Silva, Marta Costa [A2.09]
14:00 - 18:00 Thursday, Sep 09:00 - 10:30 11:00 - 12:00 14:30 - 16:00	Regulatory Systems - neuroendocrinology - Joana Palha [A2.09] Lunch Mini-workshop: A Primer on Brain Imaging - Tiago Gil Oliveira, Neuroimaging team [A2.09] otember 9 th Brain Anatomy - hands-on - Fernanda Marques, Hugo Almeida, Tiago Gil Oliveira [Lab A1.14] Coffee-break [G2.01] Behavioral Flexibility and decision-making - Pedro Morgado [A2.09] Lunch Motor Behavior - Sara Silva, Marta Costa [A2.09]
14:00 - 18:00 Thursday, Septender 10:30 11:00 - 12:00 14:30 - 16:00 Friday, Septender 10:30	Regulatory Systems - neuroendocrinology - Joana Palha [A2.09] Lunch Mini-workshop: A Primer on Brain Imaging - Tiago Gil Oliveira, Neuroimaging team [A2.09] otember 9 th Brain Anatomy - hands-on - Fernanda Marques, Hugo Almeida, Tiago Gil Oliveira [Lab A1.14] Coffee-break [G2.01] Behavioral Flexibility and decision-making - Pedro Morgado [A2.09] Lunch Motor Behavior - Sara Silva, Marta Costa [A2.09]

fundamentalsinneuroscience

Week 2 - September 13th to September 17th

Self-paced learning on brain basics: anatomy, histology and neurotransmission

Wednesday, September 15th

10:30 - 11:30 Guidance for the self-paced learning week — Monitoring of progress concerning projects for posters - Tiago Gil Oliveira, Fernanda Marques, Hugo Almeida [G2.02]

Friday, September 17th

10:30 - 11:30 *Mid-week self-paced learning process assurance* - Tiago Gil Oliveira, Fernanda Marques, Hugo Almeida [G2.02]

NOTE: The presence in the above indicated sessions is facultative, thus not mandatory for the completion of the course

fundamentalsinneuroscience

Week 3 - September 20th to September 24th

Monday, September 20 th		
09:30 - 10:30	Written Assessment [A2.06]	
	Coffee-break [A2.13]	
11:00 - 12:30 [A2.09]	Stem cell and Biomaterial Based Strategies for CNS Regenerative Medicine – António Salgado	
	Lunch	
14:00 - 15:30	Spinal Cord Injury - Nuno Silva and Susana Monteiro [A2.09]	
15:30 - 16:30	Multimodal Pharmacotherapies for neurologic disorders – Fábio Teixeira [A2.09]	
Tuesday, September 21st		
09:00 - 10:00	Of brain cells genesis (and cell death) – Luísa Pinto [A2.09]	
	Coffee-break [A2.13]	
10:30 - 11:30	Glia and gliotransmission: the other brain - João Oliveira [A2.09]	
11:30 - 12:30	Neurooncology and glioblastomas - Bruno Costa [A2.09]	
	Lunch	
14:00 - 15:30	Neurobiological basis of reward and aversion - Ana João Rodrigues [A2.09]	
	Coffee-break [A2.13]	
16:30 - 17:30	Unravelling brain cell diversity with transcriptomics – Ana Falcão [A2.09]	
Wednesday, S	September 22 nd	
09:00 - 10:00	Synaptic and circuitry mechanisms of basal ganglia dysfunction - Patrícia Monteiro [G2.02]	
10:00 - 11:00	Modulation of Pain - Hugo Almeida [G2.02]	
	Coffee-break [G2.01]	
11:30 - 12:30	Multiple Sclerosis - disease mechanisms - Fernanda Marques [G2.02]	
12:30 - 13:30	Machado-Joseph disease: toward therapies through disease mechanisms and protein function - Patrícia Maciel [G2.02]	
	Lunch	
14:30 - 15:30	Neurodegenerative disorders - lipid metabolism and membrane trafficking - Tiago Gil Oliveira, André Miguel Miranda [A2.09]	
15h30 - 16:30	The link between serotonin and neurodegenerative diseases associated with protein aggregation - Andreia Castro [A2.09]	
17h00 - 17:15	Quiz 1 [A2.08]	
Thursday, Sep	otember 23 rd	
09:00 - 10:00	Neurobiology of Depression - João Bessa [A2.09]	
	Coffee-break [A2.13]	
10:00 - 11:00	Some do it, some don't: exploring executive function - João Cerqueira [A2.09]	
	Lunch	
16:00 - 17:00	Alzheimer's disease and Stress - Ioannis Sotiropoulos, Joana Silva [A2.09]	
Friday, Septer	mber 24 th	
09:00 - 10:00	Quiz 2 [A2.08]	
	Coffee-break [G2.01]	
10:30 - 13:00	Project/Poster Presentation [G2.02]	
	Lunch	

Project delivery date deadline: <u>September 23rd 2021 - 23:00</u>

Project presentation: <u>September 24th 2021 - 10:00</u>