

## PROGRAMME

September 18<sup>th</sup> to September 25<sup>th</sup>

### Monday, September 18<sup>th</sup>

- 09:00 - 09:15 *Course presentation* - Fernanda Marques, Hugo Almeida, Tiago Gil Oliveira [\[G2.02\]](#)
- 09:15 - 10:15 *Brain Anatomy* - Tiago Gil Oliveira [\[G2.02\]](#)  
*Coffee-break*
- 10:30 - 12:45 *The nervous system cells and their origin* - Hugo Almeida, João Oliveira [\[G2.02\]](#)  
*Lunch*
- 14:00 - 18:00 *Brain Anatomy - hands-on - #1* - Fernanda Marques, Hugo Almeida, Tiago Gil Oliveira [\[Lab A1.14\]](#)

### Tuesday, September 19<sup>th</sup>

- 09:00 - 10:00 *Nervous impulse* - Hugo Almeida [\[G2.02\]](#)  
*Coffee-break*
- 10:30 - 11:30 *Barriers of the brain and brain metabolism* - Fernanda Marques [\[G2.02\]](#)
- 11:30 - 12:30 *Neurotransmission and neurotransmitters* - João Carlos Sousa [\[G2.02\]](#)  
*Lunch*
- 14:00 - 16:00 *Brain Anatomy - hands-on - #2* - Fernanda Marques, Hugo Almeida, Tiago Gil Oliveira [\[Lab I2.04\]](#)  
*Coffee-break*
- 16:30 - 17:30 *Learning and Memory* - Nuno Sousa [\[G2.02\]](#)

### Wednesday, September 20<sup>th</sup>

- 09:00 - 11:00 *Emotional and Cognitive Behavior* - Hugo Almeida [\[G2.02\]](#)  
*Coffee-break*
- 11:15 - 13:00 *Electrophysiology: Basic Background and Hands-on* - Sara Calafate, Marcelo Dias [\[G2.02\]](#)  
*Lunch*

### Thursday, September 21<sup>th</sup>

- 09:00 - 10:00 *Sensory Systems* - João Cerqueira [\[G2.02\]](#)
- 10:00 - 11:00 *Motor Systems* - João Cerqueira [\[G2.02\]](#)  
*Lunch*
- 14:30 - 16:00 *Motor Behavior* - Sara Silva, Marta Costa [\[G2.02\]](#)

### Friday, September 22<sup>th</sup>

- 09:00 - 10:30 *Behavioral Flexibility and decision-making* - Pedro Morgado [\[G2.02\]](#)
- 10:30 - 11:30 *Regulatory Systems - Neuroendocrinology* - Joana Palha [\[G2.02\]](#)  
*Lunch*
- 14:00 - 18:00 *Imaging tools - neuronal function & modulation* - Carina Cunha, Bárbara Coimbra [\[G2.02\]](#)

### Monday, September 25<sup>th</sup>

- 09:00 - 13:00 *Mini-workshop: A Primer on Brain Imaging* - Tiago Gil Oliveira, Neuroimaging team [\[A2.10\]](#)

# fundamentalsin neuroscience

September 26<sup>th</sup> and September 27<sup>th</sup>

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

**Tuesday, September 26<sup>th</sup>**

10:00 - 12:00 *Guidance for the self-paced learning week - Monitoring of progress concerning projects for posters*  
- Tiago Gil Oliveira, Fernanda Marques, Hugo Almeida [\[A2.13\]](#)

**Wednesday, September 27<sup>th</sup>**

10:00 - 12:00 *Session#2 - self-paced learning process assurance* - Tiago Gil Oliveira, Fernanda Marques, Hugo Almeida [\[A2.05\]](#)

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

# fundamentals in neuroscience

September 28<sup>th</sup> to October 4<sup>th</sup>

## Thursday, September 28<sup>th</sup>

09:30 - 10:30 Written Assessment [A2.08]

Coffee-break

11:30 - 12:30 *Neurodegenerative disorders - lipid metabolism and membrane trafficking* - Tiago Gil Oliveira, André Miguel Miranda [A2.07]

Lunch

14:00 - 15:00 *Spinal Cord Injury (1)* - Nuno Silva [A2.07]

15:00 - 15:30 *Spinal Cord Injury (2)* - Susana Monteiro [A2.07]

16:00 - 17:00 *Unravelling brain cell diversity with transcriptomics* - Ana Falcão [A2.07]

17:00 - 18:00 *Of brain cells genesis (and cell death)* - Nuno Dinis Alves [A2.07]

## Friday, September 29<sup>th</sup>

*Students Post-graduation meeting Day*

## Monday, October 2<sup>nd</sup>

09:00 - 10:00 *Modulation of Pain* - Hugo Almeida [A2.07]

Coffee-break

10:15 - 11:15 *Multiple Sclerosis - disease mechanisms* - Fernanda Marques [A2.07]

11:15 - 12:15 *Machado-Joseph disease: toward therapies through disease mechanisms and protein function* - Patrícia Maciel [A2.07]

Lunch

14:30 - 15:30 *Some do it, some don't: exploring executive function* - João Cerqueira [A2.07]

15:30 - 16:30 *The link between serotonin and neurodegenerative diseases associated with protein aggregation* - Andreia Castro [A2.07]

16:30 - 17:30 *Glia and gliotransmission: the other brain* - João Oliveira [A2.07]

17:45 - 18:00 Quiz 1 [A2.08]

## Tuesday, October 3<sup>rd</sup>

09:00 - 10:00 *Membrane trafficking in mood disorders* - Neide Vieira [A2.07]

Coffee-break

10:00 - 11:00 *Neurobiological basis of reward and aversion* - Ana João Rodrigues [A2.07]

11:00 - 12:00 *Synaptic homeostasis in neuropsychiatric disorders* - Sara Calafate [A2.07]

Lunch

15:00 - 16:00 *Stem cell and Biomaterial Based Strategies for CNS Regenerative Medicine* - António Salgado [A2.07]

16:00 - 17:00 *Alzheimer's disease and Stress* - Ioannis Sotiropoulos, Joana Silva [A2.07]

17:00 - 18:00 *Neurooncology and glioblastomas* - Bruno Costa [A2.07]

## Wednesday, October 4<sup>th</sup>

09:00 - 10:00 Quiz 2 [A2.08]

Coffee-break

10:00 - 13:00 *Project/Poster Presentation* [A2.07]

Lunch

**Project delivery date deadline: October 3<sup>rd</sup> 2023 - 23:00**

**Project presentation: October 4<sup>th</sup> 2023 - 10:00**