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INTEGRATED RESEARCH METHODS IN CELL BIOLOGY

Program Content:

- Experimental Techniques used in Cell Biology and Physiology.
- Advances in Biomedicine. Some of our current research projects will be presented and discussed.
- Practical courses.
- Transverse competences: Patents.

Dates: Ten days between January 20th and January 30th, 2015.

Location:

- Theoretical classes: Seminar 2, School of Medicine, 2nd floor.
- Practical courses: Area of Physiology, School of Medicine, 4th floor.

Professor staff:

- M^a Isabel Murillo Carretero, PhD. (coordinator)
- Mónica García Alloza, PhD. (coordinator)
- Carmen Castro González, PhD.
- Victoria García Morales, Master degree in Biomedicine and PhD student
- Noelia Geribaldi Doldán, Master degree in Biomedicine and PhD student
- Juan José Ramos Rodríguez, Master degree in Biomedicine and PhD student
- M^a Carmen Infante García, Bachelor degree in Biology and PhD student
- Francisco García Bernal, Bachelor degree in Biotechnology and PhD student
- Carmen Segundo Iglesias, PhD. (substitute professor)



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Program Schedule:

Time	Tuesday January 20th	Time	Wednesday January 21st	Thursday January 22nd
10:00 11:30	Introduction to cell cultures. <i>Prof. Maribel Murillo</i>	10:00 11:30	Modulation of adult neurogenesis by different insults: brain injury and hyperhomocysteinemia <i>Prof. Carmen Castro</i>	Animal models in Experimental Biology. The Type-3 diabetes mouse <i>Prof. Mónica García</i>
11:30 12:00	Coffee break	11:30 12:00	Coffee break	Coffee break
12:00 13:30	Cell culture techniques and equipment <i>Prof. Maribel Murillo</i>	12:00 13:30	Intellectual property: when experimental results become inventions <i>Prof. Carmen Castro</i> Protection of new inventions by Patents <i>Prof. Carmen Castro</i>	Neuroimage techniques and multiphoton microscopy <i>Prof. Mónica García</i>

Time	Monday January 26th	Tuesday January 27th		Thursday January 29th
9:30 11:45	<p>Practicum: Isolation and culture of neural precursors from mouse brain <i>Profs. Noelia Geribaldi and Francisco García</i></p>	<p>Practicum: Electrophysiology. Computer neuronal simulations. <i>Profs. Carmen Castro and Victoria García</i></p>	9:30 11:45	<p>DNA analysis by PCR (polymerase chain reaction). <i>Profs. Noelia Geribaldi and Francisco García</i></p> <p>Includes microscopic observation of the cultures previously obtained by the students.</p>
11:45 12:15	Coffee break	Coffee break		
12:15 14:30	<p>Practicum: Analysis of animal behavior and histological sections <i>Profs. Mónica García and Juan José Ramos</i></p>	<p>Practicum: Enzymatic determination of acetylcholinesterase activity in brain samples <i>Profs. Mónica García and Carmen Infante</i></p>		