



Department of Biomedical Sciences-IN2UB Meeting

July 9th 2019 at Aula Magna Faculty of Medicine and Health Sciences (Campus Clinic)

A maximum of 8 min (+2 min of questions for each talk)

9:00h-9:05h Welcome by the Chairmen

9:05h-11:15h SESSION I; IN2UB + BIOMED TALKS + DISCUSSION.

Chaired by Dr. **Xavier Batlle**, IN2UB, Dep. Condensed Matter Physics, Fac. Physics, UB.

1] *Water soluble iron oxide nanoparticles* ([Present 1](#)), Dr. **E. Carolina Sañudo**, [Magnetism and Functional Molecules Group \(GMMF\)](#), IN2UB, Dep. Inorganic and Organic Chemistry, Fac. Chemistry, UB.

2] *Implantable Sensors for Tissue Ischemia Monitoring* ([Present 2](#)), Dr. **Mònica Mir**, [Nanobioengineering](#) (IBEC), IN2UB, Dep. Electronics and Biomedical Engineering, Fac. Physics, UB.

3] *Nanoparticles for photothermal ablation: A challenging strategy for cancer theranostics*, Dr. **M^a Antònia Busquets**, Colloids Group, IN2UB, Dep. Pharmacy and Pharmaceutical Technology and Physical-Chemical, Fac. Pharmacy and Food Sciences, UB.

4] *Bacterial inclusion bodies for anti-amyloid drug discovery: Current state and future perspectives* ([Present 4](#)), Dr. **Raimon Sabaté**, Conformational Diseases Group, IN2UB, Dep. Pharmacy and Pharmaceutical Technology and Physical-Chemical, Fac. Pharmacy and Food Sciences, UB.

5] *Micro and nanotechnologies for biomedical Applications* ([Present 5](#)), Dr. **Maurico Moreno** and Dr. **Albert Romano**, [MIND](#), IN2UB, Dep. Electronics and Biomedical Engineering, Fac. Physics, UB.

6] *From Nanomaterials to Perspectives for Brain Cancer Treatments* ([Present 6](#)), Dr. **Giancarlo Franzese**, [Nanosystems Statistical Physics-Complex Matter Group](#), IN2UB, Dep. Condensed Matter Physics, Fac. Physics, UB.

7] *Stimulus Triggered Delivery Systems for Chronic Wound Healing* ([Present 7](#)), Dr. **M. Carmen Morán**, [Cellular Responses to Xenobiotics \(CEREX\)](#), IN2UB, Dep. Biochemistry and Physiology, Fac. Pharmacy and Food Sciences, UB.

8] *Nanomecànica de la interacció cèl·lula–matriu*, Dr. **Daniel Navajas**, [Cellular and Respiratory Biomechanics](#) (IBEC), IN2UB, Dep. Biomedical Sciences, Fac. Medicine and Health Sciences, UB.

9] *Sensing the matrix: transducing mechanical signals from integrins to the nucleus* ([Present 9](#)), Dr. **Pere Roca-Cusachs**, [Cellular and Molecular Mechanobiology](#) (IBEC), IN2UB, Dep. Biomedical Sciences, Fac. Medicine and Health Sciences, UB.



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10] *Precondicionament mecànic de cèl·lules mare per al tractament de malalties respiratòries* ([Present 10](#)), Dr. **Isaac Almendros**, Unit of Biophysics and Bioengineering, Dep. Biomedical Sciences, Fac. Medicine and Health Sciences, UB.

11] *Biofabricació de models 3D de malalties pulmonars* ([Present 11](#)), Dr. **Jordi Otero**, Unit of Biophysics and Bioengineering, Dep. Biomedical Sciences, Fac. Medicine and Health Sciences, UB.

12] *Dissecting the molecular mechanisms underlying huntington's disease pathology: searching for new pharmacological targets* ([Present 12](#)), Dr. **Sílvia Ginés**, [Neurodegeneration and synaptic dysfunction in HD's lab](#), Institut de Neurociències, Dep. Biomedical Sciences, Fac. Medicine and Health Sciences, UB.

11:15h-11:45h COFFEE-BREAK

11:45h-13:30h SESSION II; IN2UB TALKS + DISCUSSION.

Chaired by Dr. **Gustavo Egea**, IN2UB, Dep. Biomedical Sciences, Fac. Medicine and Health Sciences, UB.

13] *LEDs, lasers, illumination and Raman spectroscopy for biomedical Applications* ([Present 13](#)), Dr. **Sergi Hernández**, GOP – [MIND](#), IN2UB, Dep. Electronics and Biomedical Engineering, Fac. Physics, UB.

14] *Dynamics of active materials from suspensions of cytoskeletal proteins* ([Present 14](#)), Dr. **Jordi Ignés**, [Self-organized complexity and self-assembling materials \(SOC&SAM\)](#), IN2UB, Dep. Materials Science and Physical Chemistry, Fac. Chemistry, UB.

15] *Multifunctional nanomaterials suitable for bio-applications* ([Present 15](#)), Dr. **Xavier Batlle**, [Magnetic Nanomaterials Group](#), IN2UB, Dep. Condensed Matter Physics, Fac. Physics, UB.

16] *Polypurine Reverse Hoogsteen Technology for Therapeutic Gene Silencing* ([Present 16](#)), Dr. **Verònica Noé**, [Cancer therapy group](#), IN2UB, Dep. Biochemistry and Physiology, Fac. Pharmacy and Food Sciences, UB.

17] *Nanodelivery and Nanodiagnosics*, Dr. **Patrick Gamez**, [Química Bio-Inorgànica \(QBI\) Research Group](#), IN2UB, Dep. Inorganic and Organic Chemistry, Fac. Chemistry, UB.

18] *EELS analysis of transition metals in biological tissue*, Dr. **Sònia Estradé**, [MIND-LENS](#), IN2UB, Dep. Electronics and Biomedical Engineering, Fac. Physics, UB.

19] *FIB-SEM methods for biological Applications* ([Present 19](#)), Dr. **Gemma Martín**, [MIND-LENS](#), IN2UB, Dep. Electronics and Biomedical Engineering, Fac. Physics, UB.



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20] *Electron Microscopy at organic-inorganic interphases*, **José Manuel Rebled**, [MIND-LENS](#), IN2UB, Dep. Electronics and Biomedical Engineering, Fac. Physics, UB.

21] *Biological activity of organometallic gold and platinum complexes* ([Present 21](#)), Dr. **Laura Rodríguez**, [Supra and Nanostructured Systems Group](#), IN2UB, Dep. Inorganic and Organic Chemistry, Fac. Chemistry, UB.

22] *Bioengineering for Medicine: Tissue models and Organ-on-a-Chip for theragnostics and regeneration*, Dr. **Romén Rodríguez**, [Nanobioengineering](#) (IBEC), [Unitat Bioelectrònica del Laboratori de Nanobioengeneria](#), IN2UB, Dep. Electronics and Biomedical Engineering, Fac. Physics, UB.

13:30-14:00 Time for general discussion and concluding remarks