



PRINCIPE FELIPE
CENTRO DE INVESTIGACION

CIPF Seminar

A scientific journey to entrepreneurship: from regenerative medicine to Alzheimer's biomarkers

Speaker: **Gorka Orive Ph.D.**

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Networking Biomedical Research Center on Bioengineering, Biomaterials and Nanomedicine, CIBER-BBN

Date: **08/03/19- 13h**

Place: Salón de Actos CIPF

Summary: In this conference I will summarize my experience in nano and microtechnologies including cell-laden hydrogels and cyborg-like research for tissue regeneration. In this former approach, transplanted cells are protected from immune rejection by an artificial, semipermeable membrane, potentially allowing transplantation (allo- or xenotransplantation) without the need for immunosuppression while in the second bioelectronics are closely link to biological materials to create therapeutics and diagnostics. I will also describe my 15 years experience in the field of biological therapies, a relatively new biotechnology that has been a breakthrough in the stimulation and acceleration of soft-tissue and bone healing. The efficiency of this process lies in the local and continuous delivery of a wide range of growth factors and proteins, mimicking the needs of the physiological wound healing and reparative tissue processes. This field has been extended to many different fields, including orthopedics, sports medicine, dentistry, cosmetic and periodontal medicine and cosmetic, plastic and maxillofacial surgery. I will end my talk describing my last entrepreneurship project, a company based on developing innovative technologies and tools and discovering new biomarkers for the diagnosis and early prediction of Alzheimer's Disease as well as for exploring new therapeutic strategies for this and other CNS diseases.

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