



CELL BIOLOGY AND CELL PHYSIOLOGY. UMA



INTRODUCTION

Research group that is part of the University of Malaga, as well as the Network of Cell Therapy. (TerCel) and the CIBER of Bioengineering, Biomaterials and Nanomedicine (Ciber-BBN) of the Carlos III Health Institute. It specialises in the study of skeletal regeneration in animal models and in therapeutic osteogenesis, searching for its applications within the area of Regenerative Medicine, condro-osteogenic differentiation methods of mesenchymatic stem cells, in addition to making new osteoconductor materials. The study of secretome of MSC for therapeutic purposes in human and veterinary medicine are also present. They also study neuregenerative mechanisms stem cells mediated using Hydrocephalus as a model.

RESEARCH TOPICS

- Cell therapy for skeletal regeneration.
- Osteogenic regeneration.
- Regeneration in vertebrates (zebrafish).
- Osteoinductor recombinant proteins.
- Biomaterials.
- Studies on the secretome from mesenchymal stem cells for therapeutic purposes.
- Stem cell therapy for the treatment of Hydrocephalus.
- Study of the neurobiological mechanisms involved in the onset of depressive symptomatology caused by psychosocial stress.

SCIENTIFIC-TECHNICAL SERVICES

- Cell therapy applied to skeletal reparation (bones, tendons,...).
- Production of recombinant growth factors with condro-osteogenic induction factors.
- Synthesis and processing of vitreous and vitroceramic materials for biomedical applications.
- Therapies based on the secretome of mesenchymal stem cells.
- Stem cell therapies for neuroregeneration.
- Advice and preclinical studies to test the efficacy of psychotropic drugs in specific models of psychopathological disorders.

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