Bollettino d'Ateneo
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Biotecnologie

PARTNER SEARCH HEALTH-EU-SMCP-10

01 dicembre 2017

Richiesta di un'università austriaca alla ricerca di partner italiani da includere in un loro progetto nella tematica "Health" nei topic: HEALTH-2007-1.4-7: Development of stem cell culture conditions.
Contattare tegas@apre.it, facendo riferimento al codice PARTNER SEARCH HEALTH-EU-SMCP-10

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<Reference n.: HEALTH-EU-SMCP-10>
<Deadline: 18/09/2007>
<Programme: >

<Project Title: REACTIVATION: Stem cell stimulation by endogenous activation>
<Financial Scheme: >

<Description: Priorities' Main Research Areas
Molecular mechanisms guiding cardiomyogenesis
Differentiation of embryonic stem cell sto cardiomyocytes
Charactersiation of somatic stem cells of the heart
Development of cell free and serum free culture conditions for somatic
stem cells.

Project description
Somatic stem cells are supposed to reside dormant in the tissue. We propose to identify cardiac progenitor and stem cells, their niches and to study the cellular and molecular conditions of these niches in tissues of different species and in embryonic stem cell derived embryoid bodies. Defining parameters allowing maintaining the pluripotent phenotype of stem cells, their self renewal capacity and their potential to differentiate will lead to a better understanding of developmental processes during embryogenesis and the

molecular foundation of pathology and ageing related phenomenon in stem cell maintenance and depletion in various tissues.

Keywords: somatic and embryonic stem cells, progenitor cells, growth factors, transcription factors, maintenance, differentiation and dedifferentiation

TOPIC: HEALTH-2007-1.4-7: Development of stem cell culture conditions.
<Organisation Type: Università>
<Partner Sought: Role technology development, research, demonstration

Country /region: entire EU
Start of partnership: start-up phase
Expertise required
Provision and development of cell free culture substrates for embryonic and somatic stem cells of the heart.
Development of new culture subtrates based on existing basic science results provided by the academic partners.
Development and provision of serum free culture media for embryonic and somatic stem cells of the heart.
Development of new culture aditives based on existing basic science results provided by the academic partners.
We need as partner a SME developing cell free substrates for the culture of somatic and embryonic stem cells aiming at the in vitro maintenance of cardioblasts, cardiac progenitor cells or somatic stem cells of the adult myocardium. We can provide candidate substrates and growth factors for cardiac stem cells which might be explored towards patenting and commercial exploitation.