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Programme: Erasmus+

Key Action: Cooperative for innovation and the exchange of good practices

Action: Capacity Building in Higher Education

Action Type: Joint Project

Call for Proposals: EAC-A04-2014

Deadline for submission: 10/02/2014, 12:00 midday (Brussels time)

Project title: Creating A Master Program in Tissue Engineering (CAMP)

Rationale

The need to explore the curricula of tissue engineering comes from the common international problem represented by: 1) The shortage of donor tissue and organs for organs transplantation, and 2) The limitations in biological functions of current artificial tissues and organs made from man-made materials alone. In Syria, the Department of Biomedical Engineering at Damascus University has been initiated by the Council of the University of Damascus several years ago. The department focuses exclusively on the engineering prospective, however, with less importance given to biological issues. This makes indeed a weak point in the basic knowledge and experience of graduated students from the department, especially when they go abroad to complete their higher education. Thus integration between engineering and biological sciences to fill the gap in the experiences of biomedical graduated students and to heal the limitation in the objectives of biomedical engineering as a whole became very important for the development of the field in Syria, particularly with the current human crisis in the country.

General thoughts

- The graduated tissue engineering students will be capable to construct human organs starting from living cells, which results in balanced relation between demand and supply in organs transplantation.
- The first year of the project is to develop the master programme in cooperation with our European partners and other national partners. The second year is to prepare the labs and to find the relevant logistical issues for the master programme and to get the relevant approvals from authorities. The third year is to start implementing the master programme and to start accepting students to the programme.
- Analytical tools, devices, glasses, chemicals, and experimental animals are required for lab works and research. LCD screens and projectors are required in the classrooms.
- Lab for visualizing mechanisms, experimental procedures and attending external lectures on SKYPE for example.