



MINISTERUL EDUCAȚIEI NAȚIONALE

UNIVERSITATEA "TITU MAIORESCU" DIN BUCUREȘTI

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ANNOUNCEMENT

TITU MAIORESCU UNIVERSITY and the **"NICOLAE CAJAL" Institute of Medical Research** announces the employment of **3 PhD Student vacancies** for a definite period (during the project's duration) within the project entitled **"AUTOLOGOUS CELL REPLACEMENT THERAPY FOR DIABETIC PATIENTS BY LIVER CELLS TRANSDIFFERENTIATION" (DIA-CURE)**, SMIS: 106897, co-financed by the European Regional Development Fund through the Competitiveness Operational Program 2014-2020, Priority Axis 1 - "Research, Technological Development and Innovation (RDI) in Support of Economic Competitiveness and Business Development", Action 1.1.4: Attracting staff with advanced foreign skills to strengthen R & D capacity, Type of project: CD projects for attracting staff with advanced foreign skills, Grant Contract No: 148/26.10.2016.

Project description: β -cells replacement is considered a promising cure for type 1 diabetes. This therapy, however, is hindered by lack of tissues from compatible donors. In recent years, transdifferentiation (TD) - direct adult cell reprogramming into a different cell type, is becoming a promising direction towards autologous transplantations. Prof. Ferber's group in Israel has been the first to demonstrate that liver cells can be reprogrammed into pancreatic, insulin producing cells (IPCs), by ectopic expression of pancreatic transcription factors (pTFs). The present project aims to generate autologous insulin producing cells derived from the diabetic patients' liver, delineate the mechanism of the reprogramming process and analyze the generated cells functionality.

The position and the Candidate's profile:

Studies:

- a) **Graduate of higher education in the field of medicine, biology, chemistry, biochemistry, biotechnology, veterinary medicine** or other relevant specialization for biomedical research
- b) **Ph.D. student in the field of medicine, biology, chemistry, biotechnology, veterinary medicine**, or other specialization relevant for biomedical research (the relevant experience of 2-3 years of interdisciplinary collaboration with partners in the biological and medical fields is an advantage).
- c) Previous activity demonstrating an interest in research
- d) Ability to analyze and synthesize the scientific data of the articles

Job Requirements / Competencies:

- Excellent abilities in primary and bio-banking cell cultures, molecular biology, gene expression, DNA and RNA extraction, PCR
- Analysis of gene expression by Real Time PCR
- ELISA immunoassay techniques
- Biostatistics / Data Analysis.
- *In vivo* study on animal models
- Participation in the lab meetings announced by project leader

- Participation in the preparation of material and service procurement of documentation.
- Participate in the preparation of the scientific and technical reports according to the assigned tasks
- Publication of research results in specialized journals
- Presentation of research results at national and international scientific events

Skills and abilities: communication skills, independent, organized

Foreign languages: English, high level (written and spoken);

The application file consists in:

Step 1 - selection of the eligible applicants based on documents specified at A, below

Step 2 –interview for the selected applicants and documents specified at B, below

Candidates are evaluated and ranked on merit by the evaluation committees.

The application file consists in:

A) For Stage 1

- a) Application form, signed by the candidate
- b) Copy of the identity card or any other document attesting the identity, according to the law, as the case may be.
- c) Copies of documents attesting that they have attained minimum requirements (certificate stating the status of PhD student, diplomas certifying candidate's studies)
- d) Curriculum vitae **in English and Romanian**
- e) Letter of intent **in English**
- f) Name of 2 referencers or letters of recommendation **in English**
- g) Statement of responsibility on the veracity of the data presented in the file

B) For step 2

- a) Copies of original academic documents (degrees, diplomas, certificates) must be attested as true copies of the original (Copies of authenticated documents)
- b) Medical certificate, issued not more than 6 months before the competition, by the family doctor of the candidate or by other medical unit, or a statutory declaration with the obligation to complete application files with the medical certificate no later than the date of the competition;
- c) Criminal record or a statutory declaration that the candidate has no penal history that makes him/her incompatible with the job that candidates for.

Procedure for submitting required documents:

Before the closing date for applications, candidates may submit the application documents for step 1 at the following e-mail address: sarahferber@gmail.com and diacure@univ.utm.ro

No files can be added after the deadline for submitting applications.

Electronic files for Stage 1: **19.04. 2019**

Interview and evaluation of application files: **23.04.2019**

Contestation: **06.05.2019**

Displays solving appeals **08.05.2019**

The chosen individual should be available to start working by **June 2019**.