



One (1) Special Research Assistant Position

[Ref # ORZ-0702]

The research group of Kyriaki Sidiropoulou under the European Program **HORIZON-EIC-2022-PATHFINDEROPEN-01** entitled “Minimally-Invasive Soft-Robot-Assisted Deep-Brain Localized Therapeutics Delivery for Neurological Disorders”, Acronym: SoftReach (Program Coordinator Prof. Ioannis Charalampopoulos) invites applications for one (1) motivated Special Research Assistant to assist with the testing the effect of novel therapeutic treatments on the behavioral deficits and immunohistochemical markers in 5XFAD mice.

About the lab

The Neurophysiology and Behavior Laboratory at IMBB uses a multidisciplinary approach to understand the cellular mechanisms of learning and memory in health and disease.

About the project:

SoftReach aims to develop a novel Robotic Platform that will provide innovative means of localised delivery of therapeutics (*compounds*, cells) to hard-to-reach regions of the Central Nervous System (CNS) that are currently not accessible by interventional approaches. We aim to develop and demonstrate for the first time a minimally-invasive robotic platform that will provide clinically innovative access to deep brain regions via the Ventricular System (VS). Specifically, a miniature soft steerable robot, driven by biomimetic apical extension methods, will safely navigate through the spinal subarachnoid space under MRI guidance and reach target locations in brain ventricles, where it will attach a tissue construct payload (TCP). Once attached on VS walls, the TCP will release its therapeutic content (pharmaceuticals, cells) into adjacent brain regions (Fig. 1), enabling novel means to treat neurological disorders.

Job Description:

Investigation of learning and memory processes following stereotaxically-injected compounds in wild-type and 5XFAD mice

Required qualifications:

- BSc in Biological Sciences
- Excellent oral and written skills in English language

Desired qualifications:

- More than 1 years’ experience with handling animals for biomedical experiments and experience with molecular, cellular, histological and electrophysiological procedures
- Excellent use of software for animal behavior, image and electrophysiological data analysis

	Evaluation criteria	Maximum score
1.	B.Sc. degree grade (Score points = grade x 1)	10
2.	Relevant laboratory experience in handling animals and in molecular, cellular, histological and electrophysiological procedures (1-5 months = 10 points, 5-10 months = 20 points, 10-15 months = 30 points, >15 months = 40 points)	40



3.	Relevant experience with use of software for animal behavior, image and electrophysiological data analysis (1-5 months = 10 points, 5-10 months = 20 points, 10-15 months = 30 points, >15 months = 40 points)	40
4.	Oral and written skills in the English language (B1 = 2 points, B2 = 5 points, C1 = 7 points, C2 = 10 points)	10
Total score		100

Contract Duration: 6 months with the possibility of extension according to the project needs

Total budget: Depending on experience and qualifications, in accordance with the provisions of the Greek legislation (Law 4354/2015)

Envisaged starting date: 01/02/2025

Application submission: Interested applicants should submit their application electronically by **December 05, 2024 @ 13:00 (Greece time)**

The application should consist of:

1. Application Form (see below)
2. CV
3. Brief statement of purpose
4. The names and contact details of two referees
5. Scanned copies of academic titles
6. Scanned copies proving all the qualifications

Submission of applications: orz0702@imbb.forth.gr

Evaluation procedure

Applications will be evaluated by a three-member evaluation committee. In case of interview procedure, applicants will be invited to participate in person or teleconference.

In case of titles and qualifications awarded by foreign Higher Education Institutions, the provisions of the Law 55/2023 (article 36) and 4957/2022 (article 304) are implemented.

The results of the selection will be announced on the website of IMBB-FORTH. Applicants have the right to appeal the selection decision, by addressing their written objection to the IMBB secretariat within five days since the results announcement on the web. Objections are submitted in one of the following ways: in person, by an authorized person, by post, by courier. They also have the right to access (a) the files of the applicants as well as (b) the table of applicants' scores (ranking of applicants results). All the above information related to the selection procedure will be available at the secretariat of IMBB-FORTH in line with the Hellenic Data Protection Authority. Access to personal data of co- applicants shall be limited to personal data (and relevant data) and supporting documents which have been the basis of the evaluation of the applicants for the specific post(s). Prior to the announcement of the personal data and/or documents of the co- applicants to the applicant, FORTH will inform the data subjects in an appropriate way.

The selected applicants will be notified personally regarding the success of his/her application and will be requested to submit certified copies of his/her degrees. If the submitted documents do not agree with the original application, the applicant will be dismissed.

GDPR Disclaimer

FORTH is compliant with all legal procedures for the processing of personal data as defined by the Regulation EU/2016/679 on the protection of natural persons with regard to the processing of personal data. FORTH processes the personal data and relevant supporting documents that applicants have submitted. Processing of that data is carried out exclusively for the needs and purposes of this specific call. Such data shall not be transmitted to or communicated to any third party unless required by law.

FORTH retains the above data up to the announcement of the final results of the call, unless further process and reservation is required by law or for purposes of exercise, enforcement, prosecution of certain one's legitimate legal rights' as defined in the Regulation EU/2016/679 and/or in national law. Under the Regulation EU/2016/679, applicants have the rights to be informed about their personal data, access to, rectification and erasure, restrictions of process and objection to as provided by applicable regulation and national laws. Applicants have the right to file a complaint to the national Data Protection Authority. For any further information regarding exercise of personal data protection rights, applicants may contact the Data Protection Officer at FORTH at dpo@admin.forth.gr.

Applicants have the right to withdraw their application and consent for the processing of personal data at any time. In this case, FORTH shall destroy such documents and/or supporting documents submitted and shall delete the related personal data.

APPLICATION FORM

Name: _____
Surname: _____
Date of birth (dd/mm/yy): _____
Address: _____
Telephone number: _____
Email address: _____

TO
FOUNDATION OF RESEARCH AND TECHNOLOGY (FORTH)
INSTITUTE OF MOLECULAR BIOLOGY AND BIOTECHNOLOGY

Hereby I submit my application for the position:

In the framework of the project: _____

Position code [Ref #] _____

Submitted with this application:

1. _____
2. _____
3. _____
4. _____
5. _____

I certify that:

- A) I accept the terms and conditions of the job announcement
- B) I possess all the necessary certificates and documents and I can present them in their original form to the committee without any delay if I am asked to do so
- C) I am able to complete the project within the foreseen time -frame
- D) all the information given in the framework of this application are accurate and true.

Date: _____

Applicant name

(signature)