



P.N. 0525-P/152168
September 16, 2024

One (1) Postdoctoral Researcher Position

[Ref # ELD-0667]

The research group of Gene Control Mechanisms of IMBB under the framework of the Action "Basic Research Financing (Horizontal support for all Sciences), National Recovery and Resilience Plan (Greece 2.0)" funded by the Hellenic Foundation for Research and Innovation (HFRI) entitled "Modeling Transcription: an integrated approach to understand cancer-specific gene expression programs", Acronym: TRANS-MOD, code: 15276 (P.I.: Partner 2: Matthieu Lavigne), invites **applications for one (1) post-doc researcher**.

About the lab

The research interests of the Gene Control Mechanisms lab include gene regulation and DNA repair with a hybrid research set-up (molecular/cell biology and Computational Biology/bioinformatics) to investigate transcriptional and chromatin regulation in cancer and neuronal precursor cells.

Project Description:

Reasoning that there are elevated transcriptional outputs and a transcription dependency in cancer cells, we aim to compare the "principal regulatory codes" governing physiological and cancer-specific gene expression programs. The regulated step-wise assembly of RNA Pol II machinery is of pivotal importance in regulating transcriptional outputs and depends on many factors and chromatin modifiers that fine tune pausing of RNAPII in promoter- proximal regions or its regulated release to the productive phase of transcript elongation. These steps are essential in transcription rate control and nascent RNA levels. The project will focus on regulatory links between histone modifying enzymes during elongation of RNA pol II and nascent RNAs in human/mouse Liver cancer Development.

Job Description:

The applicant should demonstrate interest and experience in molecular and cellular biology, chromatin, and transcription regulation research as well as in NGS library preparation. In particular he/she will develop dTAG cell lines and induced Pluripotent Stem Cells and prepare multi-omics (ATAC-seq, CUT-and-TAG, PRO-seq) analyses to generate data to be analyzed in collaboration with other researchers of the consortium.

Required qualifications:

- PhD in Biology, Life Sciences or related fields
- MSc in Molecular Biology
- More than 3 years' experience with prior documented experience in cell biology, chromatin biology and NGS library preparation
- At least one first author publication in a highly-ranked peer reviewed journals in related field.

Desired qualifications:

- Writing successful Fellowship/abstract applications
- Excellent oral and written skills in English language
- Prior experience in primary cell lines handling, generation of stable cell lines, iPSCs/stem cells biology, CRISPR-Cas9 technology, RNA-seq, CHIP-seq, CUT-AND-TAG, ATAC-seq, proteomic analyses and imaging techniques
- A very good understanding of molecular/cellular biology principles including Stem cells and Gene Regulation in carcinogenesis and the role of chromatin and epigenetic mechanisms in nuclear architecture and gene regulation (assessed during interview)

	Evaluation criteria	Maximum score
1.	PhD in Biology, Life Sciences or related fields	YES/NO
2.	M.Sc. degree grade (Score points = grade x 1)	10
3.	Writing successful Fellowship/abstract applications (Awards and scholarships obtained = 10 points)	10
4.	At least one first author research paper in a highly-ranked peer reviewed journals in related field (10 points)	10
5.	More than 3 years' experience with prior documented experience in cell biology, chromatin biology and NGS library preparation (Primary cell lines handling, generation of stable cell lines, iPSCs/stem cells biology, CRISPR-Cas9 technology, RNA-seq, ChIP-seq, CUT-AND-TAG, ATAC-seq, proteomic analyses and imaging techniques (3-4 years = 10 points, 4-5 years = 20 points, >5 years = 30 points)	30
6.	Oral and written skills in the English language (B1 = 3 points, B2 = 5 points, C1 = 7 points, C2 = 10 points)	10
7.	Interview that will include presentation of the candidate's previous research projects and will assess: i.the candidate's understanding of the project ii. his/her motivation and iii. presentation skills (by videoconference, for the shortlisted candidates obtaining >50/70 points to prior items of the evaluation)	30
Total score		100

Contract Duration: 12 months with the possibility of extension according to the project needs

Total budget: 1854 € monthly cost (incl. tax and social security)

Envisaged starting date: November 1st 2024

Application submission: Interested applicants should submit their application electronically by **October 02, 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: eld0667@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 your 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)