

Via A. Gabelli 63 - 35121 Padova  
C.F. 80006480281 - P.IVA 00742430283

**For legal purposes refer only to the Italian version of the Call. This translated version is intended only for a better comprehension.**

Rec. n. .... dated .....

**University of Padova – Department of Molecular Medicine**

**Selection announcement for the awarding of 01 post graduate research fellowship entitled  
“Mycobacterium tuberculosis genome-wide mapping of G-quadruplex structures and selective  
targeting”**

Candidates shall also refer to the forms and documentation related to the selection announcement available at the links hereunder:

<https://www.medicinamolecolare.unipd.it/> under the section “Bandi”

<https://www.unipd.it/borse-di-ricerca>

Having regard to par. 4 of Art. 80 of the University's “Regolamento di Ateneo per l'amministrazione, la finanza e la contabilità” (Regulations Governing Administration, Finance, and Accounting) and “Regolamento delle borse per lo svolgimento di attività di ricerca”, (Regulations Governing Research Fellowships) a selection announcement for titles and qualifications has been published for the awarding of 01 post graduate research fellowship at the Department of Molecular Medicine, under the supervision of the Research Project Supervisor, Prof.ssa Sara Richter.

The research fellowship shall last for **10 months**.

The research fellowship shall be for a total amount of **€ 16.130,00** and it is financed by RICH\_ECCE20\_01 - research project entitled "Mycobacterium tuberculosis genome-wide mapping of G-quadruplex structures and selective targeting-G4 Myco map&tag," funded by Cariparo Foundation in the framework of bando “Ricerca Scientifica di Eccellenza 2018”, CUP: C94I20003110007, of which Prof.ssa Sara Richter is the PI. The research fellowship will be paid in deferred monthly instalments.

The Research Fellowship Holder must carry out the following research activity: the aim is to address the role played by G4s in Mtb physiology to identify selective G4-ligands that inhibit Mtb

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key functions. The genome sites where G4 folding occurs will be mapped by CUT&Tag upon different conditions: standard laboratory growth and conditions that mimic the physiological environment faced by Mtb during infection in vivo, i.e. oxidative stress, nutrient starvation, dormancy. The association between G4s and nucleoid associated proteins (NAPs) and transcriptionally active DNA regions will be assessed. Relevant G4s will be characterized by biophysical and molecular techniques. Mass-spectrometry highthroughput screening will be used to identify selective G4-ligands that inhibit Mtb growth.

#### **Admission requirements**

Master's degree in Biological area

(The eligibility of qualifications awarded abroad will be verified by the Selection Committee.)

#### **Required skills:**

- English knowledge;
- Computer skills: writing and calculation software and basics of R.

#### **Consideration will be given to:**

- Documented relevant study and research activities.

#### **Incompatibility**

The fellowships within this announcement may not be combined with:

- other research grants;
- fellowships of any other kind, except for those awarded by national or foreign institutes to integrate, with periods abroad, the specific research activities required by this announcement.

In the case of self-employed, employed or parasubordinate employed, compatibility shall be determined by the Research Project Supervisor.

Research Fellowship Holder may not have family or kinship relationships up to the fourth

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degree with lecturers or researchers working at the Department elected as "Research Base", or with Rector, or Director General, or a member of the University Board of Governors.

**Procedures for submission of application form:**

The deadline for submitting the application form is **16<sup>th</sup> September 2024 at 01:00 p.m.**

The application must be filled out using only the form available on the Department of Molecular Medicine webpage at the link <https://www.medicinamolecolare.unipd.it/> under the "Bandi", and it can be submitted as follows:

1) delivered in person to Segreteria Amministrativa del Dipartimento di Medicina Molecolare, via U. Bassi 58/b (4<sup>o</sup> floor North Complesso Vallisneri) - 35131 Padova, on the following days: Monday – Friday from 09:00 to 13:00;

2) posted by registered mail with advice of receipt to the following address: Segreteria Amministrativa del Dipartimento di Medicina Molecolare, via U. Bassi 58/b (4<sup>o</sup> floor North, Complesso Vallisneri) - 35131 Padova. Should the application be sent by registered letter, the postmark will not be accepted as evidence of meeting the application deadline. The date of receipt will be considered. Therefore, the application must reach the office before the deadline of this selection announcement.

3) sent by certified e-mail (PEC) to [dipartimento.medicinamolecolare@pec.unipd.it](mailto:dipartimento.medicinamolecolare@pec.unipd.it)

The envelope or subject heading of the email must indicate the following: "Selection Announcement for the Awarding of Research Fellowship -" *insert the title of the research fellowship and the name of the Research Project Supervisor*" at the Department of Molecular Medicine.

The application must include:

- a) a dated and signed Europass CV, available at the links indicated on the selection announcement;
- b) a photocopy of a valid identity document (Identity Card or Passport);
- c) any other document, qualification or publication useful for the selection process (for instance the copy of the thesis);
- d) the substitutive declaration of certification (made in order to declare the conformity of a document to the original) dated and signed, available on the web page of the Department

<https://www.medicinamolecolare.unipd.it/> under the section "Bandi" referring to the specific call.

### **Selection procedure**

Candidates' applications shall be evaluated by a Selection Committee that will be nominated in accordance with the "Regulations Governing Research Fellowships," on the basis of their qualifications and interview.

Prior to assessing candidates, the Selection Committee shall establish the maximum score, criteria and the procedure to be used in evaluating qualifications, any minimum score for admission to the interview, the methods and criteria for the interview.

If the Selection Committee considers the qualifications as sufficient to evaluate the candidates' eligibility, it can decide not to hold interviews.

**The interview is only in-person and it is scheduled for 18<sup>th</sup> February 2024 at 08:30 a.m. at the office of Prof.ssa Sara Richter, Department of Molecular Medicine, 1st floor, Via A. Gabelli n. 63, 35121 - Padova.**

Candidates who do not show up for the interview for any reason whatsoever shall be excluded from selection.

Any changes will be communicated via email to applicants to the email address provided in the application.

At the end of the selection process, the Selection Committee shall send the report to the Head of the Department for approval.

After verifying the legality of the deeds, the Head of Department shall approve by decree the ranking order and the awarding of the research fellowship.

The administrative office of the Department that issued the selection announcement shall notify the successful candidate.

The winner must accept the award within ten days of notification. Otherwise, the winner shall forfeit the right to the research fellowship. In case of renunciation, the fellowship will be awarded to the next eligible candidate, according to the ranking order.

The ranking order will be published on the Department's web page at the following address

<https://www.medicinamolecolare.unipd.it/> and on the University's website.

### **Return of Documents and Publications**

Any documents and publications sent to the University can be returned at the applicant's expense after two months from the completion of the selection process, subject to any ongoing litigation.

### **Processing of personal data**

The processing of personal data provided by the candidates will be done in accordance with the provisions of EU Regulation 27.04.2016 no. 679 (General Data Protection Regulation - GDPR).

Competitors' personal data will be processed, in paper or computer form, for the purposes of this procedure and the possible award of the grant.

The provision and collection of data are mandatory for the purposes of participation in the selection process and, if sensitive data are involved, they are carried out in accordance with Law 68/1999 and Law 104/1992.

The full information on the processing of personal data is available at the following link: <http://www.unipd.it/privacy>

### **The person responsible for administrative proceedings**

In accordance with Art. 5 of Law no. 241 dated 7 August 1990, the person responsible for the selection process (RPA) is Dr. Edda Fassari, Secretary of the Department of Molecular Medicine, e-mail: [edda.fassari@unipd.it](mailto:edda.fassari@unipd.it) - Tel. n. 049 8218681. For any clarification or information regarding the call, write to the following email address: [ricerca.dmm@unipd.it](mailto:ricerca.dmm@unipd.it)

### **Final provisions**

For anything not specified in this selection announcement, see the University of Padua's current regulations regarding the awarding for research fellowships.