

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.

Re. n. 5504 dated 30.11.2023

University of Padova – Department of Molecular Medicine

**Selection announcement for the awarding of 01 post graduate research fellowship entitled
“Network science to understand the spread and evolution of viruses”**

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 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. Chiara Poletto.

The research fellowship shall last for **8 months**.

The research fellowship shall be for a total amount of **€ 12.904,00** and it is financed by the research project POLE_CARIVARI23_01 - “Starting Package per attrarre ricercatrici e ricercatori eccellenti dall'estero” granted by Fondazione Cariparo, CUP C93C22008360007, of which Prof. Chiara Poletto is the PI. The research fellowship will be paid in deferred monthly instalments.

The Research Fellowship Holder must carry out the following research activity: Four years after its emergence, SARS-CoV-2 continues to pose a health cost to the global population. Key questions remain about the factors that determine its propagation dynamics. In particular, the dynamics of co-circulation of virus variants and the resulting pattern of dominance/co-dominance resulting from the emergence of variants with greater transmissibility and/or capable of evading

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the immune response still present open questions. Answering these questions requires advanced computational modeling approaches that can integrate realistic descriptions of the network of contacts between individuals and the structure of the viral population. The research assistant will work on developing these approaches by combining mathematical epidemiology, network science, and computation. The goal will be the attainment of a fundamental understanding of how the structure of the network of contacts between individuals promotes the evolution and population structure of a virus.

Admission requirements

Master's degree (second level degree as per M.D. 509/99 and M.D. 270/04)

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

Required skills:

- English knowledge;
- Computer skills: Experience in implementing numerical models (in Python or Julia or C++ or other related languages)

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.

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Research Fellowship Holder may not have family or kinship relationships up to the fourth 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 **15th December 2023 at 01:00pm.**

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, room 60 (4° 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° 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.

Please keep in mind that Complesso Vallisneri will be closed on 8th December 2023.

3) sent by certified e-mail (PEC) to 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 number*" 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," based on their qualifications.

Prior to assessing candidates, the Selection Committee shall establish the maximum score, criteria, and the procedure to be used in evaluating qualifications.

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.

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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 - Tel. n. 049 8218681. For any clarification or information regarding the call, write to the following email address: ricerca.dmm@unipd.it

Final provisions

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