

## DECREE OF THE RECTOR

*Academic Year 2024/2025*

No. 220 of 10/04/2025



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Ministero  
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**Call for Selection for the award of no. 3 research contracts pursuant to art. 22 of Law no. 240/2010, PNRR - Mission 4 "Education and Research" Component 2 "From Research to Enterprise" - Investment 1.2 "Funding of projects submitted by young researchers" (D.D. no. 47 of 20 February 2025), competition codes: CDR/01\_25, CDR/02\_25 and CDR/03\_25.**

### THE RECTOR

- Considering** the Statute of Università Campus Bio-Medico di Roma;
- Considering** the Code of Ethics and the Charter of Aims of the University Campus Bio-Medico of Rome;
- Considering** Italian Law No. 240 of 30/12/2010, containing regulations regarding the organisation of universities, academic staff and recruitment, as well as the mandate to the Government to promote the quality and efficiency of the university system, and, in particular, Article 22;
- Considering** Rectoral Decree no. 214 of 7 April 2025, by which the Regulations for the award of research contracts at the University Campus Bio-Medico of Rome are issued, pursuant to Article 22 of the aforementioned Law no. 240/2010;
- Considering** Italian Law No. 241 of 07/08/1990, as amended, containing regulations on administrative procedures and the right of access to administrative documents;
- Considering** Italian Presidential Decree No. 445 of 28/12/2000 445, containing the 'Consolidated law on regulations regarding administrative documents', as amended;
- Considering** Italian Legislative Decree No. 196 of 2003, as amended, and Italian Legislative Decree No. 51 of 18/05/2018, in implementation of Directive (EU) 2016/680 of the European Parliament and of the Council, of 27 April 2016 on the protection of natural persons with regard to the processing of personal data;
- Considering** the National Recovery and Resilience Plan, officially presented to the European Commission on April 30, 2021, pursuant to Art. 18 of Regulation (EU) No. 2021/241, and positively evaluated by the ECOFIN Council Decision on July 13, 2021, and notified to Italy by the General Secretariat of the Council with note LT161/21 of July 14, 2021;
- Considering** the Decree of the Ministry of the Economy and Finance of 6 August 2021, entitled "Allocation of the financial resources provided for the implementation of the interventions of the National Recovery and Resilience Plan (PNRR) and allocation of targets and objectives for six-monthly reporting deadlines" and subsequent amendment of 23 November 2021, on the basis of which the Ministry of Universities and Research is the assignee of resources provided for the implementation of the interventions of the National Recovery and Resilience Plan (PNRR), in order to implement the initiatives provided for under Mission 4 Component 2 (M4C2) "From Research to Enterprise";
- Considering** the Directorial Decree of 3 July 2024, no. 201, bearing the "Public Notice for the submission of project proposals by young researchers", to be funded under Mission 4, Component 2, Investment 1.2 "Funding of projects submitted by young researchers" of the National Recovery and Resilience Plan as amended and supplemented;

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<b>Considering</b>	Directorial Decree No. 47 of 20 February 2025, Notice for the recruitment of international post-doctoral researchers PNRR - Mission 4 "Education and Research" Component 2 "From Research to Enterprise" - Investment 1.2 "Funding of projects submitted by young researchers";
<b>Considering</b>	the financial coverage is guaranteed by the following project: Ministry of University and Research (MUR) within the framework of the PNRR - M4C2 'Education and Research' Investment 1.2 - 'Financing of projects submitted by young researchers';
<b>Considering</b>	Ministerial Decree no. 639 of 2 May 2024, concerning the determination of the Scientific-Disciplinary Groups, and of the relevant declarations, as well as the rationalisation and updating of the Scientific-Disciplinary Sectors and the reconciliation of the latter to the Scientific-Disciplinary Groups, pursuant to Article 15 of Law no. 240 of 30 December 2010;
<b>Considering</b>	the Resolution of the Academic Senate of Università Campus Bio-Medico di Roma of 09/04/2025 and the Resolution of the CDA of 10/04/2025;
<b>Considering</b>	It is necessary to issue the call for selection for the award of no. 3 research contracts for international post-doctoral researchers for the performance of projects in the Integrated Research Centre (C.I.R.) facilities and at the Departmental Faculty of Engineering, the Departmental Faculty of Science and Technology for Sustainable Development and One Health and the Departmental Faculty of Medicine and Surgery of the University Campus Bio-Medico of Rome;

## DECREE

### Art. 1 (Competition type)

1. A public selection, based on qualifications and interviews, is hereby announced for the award of no. 3 research contracts for international post-doctoral researchers for the performance of specific projects in the Integrated Research Centre (C.I.R.) facilities and at the Departmental Faculty of Engineering, the Departmental Faculty of Science and Technology for Sustainable Development and One Health and the Departmental Faculty of Medicine and Surgery of the Campus Bio-Medico University of Rome.
2. Attachment 'A', which is an integral part of this notice, also indicates: the Scientific-Disciplinary Group, the Scientific-Disciplinary Sectors, the profile of the researcher to be recruited, the research project to which the contract is linked, the Scientific Supervisor, the Departmental Faculty/Research Unit to which the researcher belongs, the place where the activities are to be carried out, the maximum number of publications, the date, time and method for calling the candidates to the public interview, foreign language of which knowledge is required.

### Art. 2 (Admission requirements and grounds for exclusion)

1. Those who meet one of the following requirements specified in Annex 'A' may participate in the selection:
  - **PhD** or equivalent qualification obtained abroad; *or*
  - Enrolment in the third year of a PhD course, provided it is to be completed by 15 May 2025.
2. In the case of a doctorate awarded abroad, the candidate must submit:
  - if already in possession, the decree of equivalence with the Italian university degree issued pursuant to Article 74 of Presidential Decree no. 382/1980; or

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- the determination of equivalence of the foreign qualification to the Italian one issued pursuant to Article 38 of Legislative Decree no. 165/2001.
  - 3. In the case of a doctorate awarded abroad without a decree of equivalence or determination of equivalence, the candidate must submit appropriate certification, in pdf format, attesting to the possession of the qualification, in particular:
    - Diploma or certificate of doctoral degree or Diploma supplement;
    - Certificates of Proficiency Examinations (Transcripts of records).
  - 4. The Selection Committee will assess the equivalence of the qualifications submitted, for the sole purpose of the procedure.
  - 5. Applicants, in accordance with Article 5 of D.D. No. 47 of 20/02/2025, must also:
    - have completed the doctoral course having spent a period of at least three months of training and research abroad.
  - 6. Participation in the selection is only open to "young researchers", as defined in Article 1, paragraph 8 of Decree no. 47/2025, who:
    - have not attained the age of 41 years by 20 February 2025;
    - have not turned 46 years of age by 20 February 2025 and have not been a PhD holder for more than seven years
    - should gain initial experience as a fund manager and/or research activity;
    - should gain experience in leading and managing a national and/or international research team;
    - do not have, or have not previously had, a permanent Full Time Equivalent (FTE) contract as a researcher and/or professor;
  - 7. They cannot participate in the selections:
    - a) permanent staff of universities, public research organisations and institutions whose postgraduate scientific diploma has been recognised as equivalent to the PhD title pursuant to Article 74(4) of Presidential Decree No 382 of 11 July 1980;
    - b) those who have been awarded fixed-term researcher contracts pursuant to Article 24 of Law 240 of 2010;
    - c) those who have a relationship of kinship or affinity up to and including the 4th degree with a professor belonging to the Departmental Faculty Council (GDF) and/or Research Unit that proposed the activation of the contract, or with the Rector, the Chief Executive Officer and General Manager or a member of the Academic Senate/Board of Directors.
  - 8. Exclusion from the selection procedure is ordered at any time by reasoned decree of the Rector and notified to the person concerned.

### Art. 3

#### (Application procedure and deadlines)

1. The application to take part in the public selection, as well as the qualifications, documents and publications considered useful for the competition, must be submitted, **under penalty of exclusion, electronically**, using the dedicated computer application on the Competitions page of the University website: <https://www.unicampus.it/en/ateneo/concorsi/contratti-di-ricerca/>. The computer application will necessarily require an e-mail address in order to be able to self-register with the system. The candidate must enter all the data required for the production of the application and attach, in electronic format, the documents referred to in this notice. **No other form of submission of applications or documents for participation in the procedure is permitted.**
2. By the application submission deadline, the system allows the application to be saved in draft mode. The date of electronic submission of the application is certified by the computer system by means of

a receipt that will be automatically sent by e-mail. Once submission deadline has expired, the system will no longer allow access and submission of the electronic form.

3. Each application will be given an identification number which, together with the competition code indicated in the computer application, must be specified for any subsequent communication.
4. The procedure for completing and sending the application electronically must be completed **no later than 12 noon** on the **tenth** day, starting from the day following the publication of this notice on the website of the University, the Ministry of Education, Universities and Research and the European Union.

If the stated deadline falls on a public holiday, the deadline is extended to the first available working day.

The application form must be **completed in its entirety**, as indicated in the online procedure and must contain in particular:

- a) **the title of the research project**;
  - b) **full personal details** (name and surname, place and date of birth, tax code, the address of residence and domicile chosen for the purpose of communications relating to this procedure, complete with postcode, telephone number and e-mail address to which you wish any communications to be sent);
  - c) **the nationality held**;
  - d) the declaration of possession of the qualification referred to in Article 2 of this notice;
  - e) the declaration of research experiences abroad;
  - f) **valid identification document**;
  - g) **the scientific-professional curriculum vitae suitable for the research activity covered by the contract, dated**, which must be attached in **PDF** format;
  - h) **the list of publications** considered useful for the selection, which must be attached in **PDF** format;
  - i) **publications** considered useful for the selection, which must be uploaded and sent in '**pdf**' format (for each publication the maximum limit allowed is **30 MB**) exclusively via the appropriate section of the telematic procedure and exclusively in **full text** format;
  - j) the declaration of the level of knowledge of the **English** language.
5. In the application, the applicant must also declare:
    - a) that they have no criminal convictions;
    - b) to enjoy political rights;
    - c) that they have no degree of kinship or affinity, up to and including the fourth degree, with a professor belonging to the GDF and/or Research Unit that has proposed the activation of the contract, or with the Rector, the Chief Executive Officer and Director General or a member of the University Senate/Board of Directors;
    - d) they do not belong to the permanent staff of universities, public research organisations and institutions whose postgraduate scientific diploma has been recognised as equivalent to the research doctorate title pursuant to Article 74(4) of Presidential Decree No. 382 of 11 July 1980;
    - e) that he/she has not held fixed-term researcher contracts pursuant to Article 24 of Law no. 240/2010;
  6. The same procedures provided for Italian citizens apply to citizens of the European Union. For the use of substitute declarations by non-EU citizens, please refer to art. 4.
  7. The submission of the application must be finalised and completed in the following manner:
    - **by means of digital signature**, using smart cards, USB tokens or remote signatures, enabling the holder to sign generic documents using PC-based signature software or a web portal for Remote Signature made available by the Certification Authority. Whoever has a smart card or a Digital Signature USB token can check its compatibility with the Digital Signature system integrated in the

server system. If the result is positive, the holder will be able to sign the application directly on the server;

- **those who do not have compatible digital signature devices and Remote Digital Signature Holders** who have access to a portal for the signing of generic documents, shall save on their PC the PDF file generated by the system and, without modifying it in any way, digitally sign it in CAdES format: a file with a .p7m extension will be generated and must be uploaded to the system again. Any modification made to the file before the Digital Signature has been affixed will prevent the automatic verification of the correspondence between the content of this document and the original and this will result in the exclusion of the application;
- if it is not possible to use one of the above options, the candidate must save the PDF file generated by the system on his/her PC and, without modifying it in any way, print it out, affix a complete autograph signature on the last page of the printout and initial all the preceding pages. This complete document must be produced in PDF format by scanning, and the file thus obtained must be uploaded to the system.

#### Art. 4

##### (Non-EU citizens - self-declarations)

1. Citizens of States not belonging to the European Union regularly residing in Italy may use substitute declarations pursuant to Presidential Decree no. 445 of 28 December 2000 limited to states, personal qualities and facts certifiable or attestable by Italian public entities, without prejudice to the special provisions contained in the laws and regulations concerning the discipline of immigration and the condition of foreigners.
2. Apart from the cases provided for above, citizens of non-EU States authorised to reside in the territory of the State may use the aforementioned substitute declarations in cases where they are produced pursuant to international conventions between Italy and the declarant's country of origin.

#### Art. 5

##### (Appointment of the Selection Committee)

1. The Selection Board is appointed by the Rector, on the proposal of the Scientific Supervisor.
2. The Selection Board is composed of three members respecting, where possible, gender parity, chosen from: professors and researchers with research experience in the topics of the call, at least one of whom is classified in the Scientific-Disciplinary Group/Scientific-Disciplinary Area covered by the call.
3. One of the members may also be chosen from among Italian or foreign experts, including non-university experts, in subjects falling within the Scientific-Disciplinary Group/Scientific-Disciplinary Area indicated in the call for applications.

#### Art. 6

##### (Evaluation of qualifications, interview and final ranking)

1. The selection is carried out by means of a comparative evaluation of the candidates and is aimed at assessing the adherence of the project proposals to the research programme that is the object of the selection, as well as the candidates' possession of a scientific-professional curriculum suitable for carrying out the research activity that is the object of the contract.
2. At its first meeting, the Commission establishes the criteria and modalities for assessing the qualifications, the project and the interview.

3. The candidates are assessed comparatively on the basis of the following criteria:
  - a) quality, originality and innovativeness of the project proposal, with reference to the research programme being selected;
  - b) Relevance and relevance of previous research activities and work experience, if any, in relation to the content of the research programme being selected;
  - c) Relevance of the attached publications to the research programme subject of the selection;
  - d) interview aimed at ascertaining suitability for carrying out the research activity covered by the contract and for implementing the project proposal submitted, as well as assessing knowledge of English and/or other languages relevant to the research.
4. The Commission then communicates the criteria and scores adopted, expressed in hundredths, to the person in charge of the procedure, who proceeds to publish them on the University website.
5. The Commission may make use of telematic tools for collective work and may conduct its meetings remotely. The manner in which they are conducted must be recorded in the minutes. The public interview may also be conducted telematically, in accordance with the procedures set out in the notice, and will take place in accordance with the calendar indicated in appendix A to this notice, which has the value of notification for all legal purposes without further formalities.
6. The candidate must be present on the day and at the time fixed for the interview. For the purposes of identification, under penalty of exclusion from the selection procedure, each candidate must identify him/herself before the interview begins by producing a valid identity document. In the event that candidates take part in the interview by telematic means, on the Microsoft Teams platform, failure to connect, unavailability of the candidate or failure to show a valid identification document, are grounds for exclusion from the selection procedure.
7. The Commission, after adequate evaluation and on the basis of the established criteria, proceeds collectively to express, for each individual evaluation criterion, a reasoned judgement and the attribution of the relative score.
8. The Commission draws up final ranking taking into account the marks obtained by the candidates and identifies the winner of the selection. The selection is deemed passed with a minimum score of **70** out of a total of **100** points.
9. In the event of a tie, preference is given to the candidate of the youngest age.
10. The result of the selection will be accessible from the University's website at the link <https://www.unicampus.it/en/ateneo/concorsi/contratti-di-ricerca/> and it will have full notification value for all interested parties.

#### **Art. 7**

#### **(Approval of acts)**

1. The Rector, by his own decree, within 30 days from the delivery of the reports to the Human Resources Department, having ascertained the formal regularity of the acts, approves the outcome of the ranking list.
2. The Decree approving the acts is published on the University's website, within the terms and in the manner set out in the notice, in compliance with the principles of transparency and protection of personal data.
3. The final ranking will be valid for six months from the date of publication of the Decree of approval of the acts.
4. Within a maximum period of 90 days from the date of approval of the research contract award, in the presence of justified additional needs relating to the performance of the same research project, the DRU, upon request of the Scientific Supervisor, may propose to the Academic Senate the awarding of further research contracts to candidates who have been successfully ranked in the

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ranking list, provided that the availability of the relevant financial coverage has been ascertained. The resolution of the Academic Senate is approved by the Board of Directors.

**Art. 8****(Contribution, forfeiture and termination)**

1. The activation of contracts is approved by the Board of Directors, following the resolution of the Academic Senate, after authorisation by the Executive Board, which verifies the financial coverage.
2. Conclusion of the contract is subject to verification by the Human Resources Department of possession of a PhD or medical specialisation qualification and, in the case of qualifications obtained abroad, of the equivalence or equivalence of the qualification.
3. When concluding the individual fixed-term employment contract, the Human Resources Department invites the person concerned to submit the documentation required under current legislation.
4. The contract must state:
  - a) the start and end date of the employment relationship;
  - b) the place of work;
  - c) activities related to the research project;
  - d) an indication of the total remuneration;
  - e) an indication of the manner in which the holder of the research contract is required, on an annual basis and at the end of the contract, to submit a detailed report on the research activity carried out to the DRU or to the Board of the Departmental Faculty or Faculty of affiliation;
  - f) an indication of the grounds for termination of the contract and the necessary notice periods;
  - g) an indication of the grounds for termination, in accordance with current legislation;
  - h) intellectual property and data processing legislation and related confidentiality obligations.
  - i) a commitment to respect the obligations contained in the Code of Ethics and the Charter of Aims.
5. The employment contract is signed by the research contract holder and the Managing Director and General Manager.
6. In the event that the successful candidate withdraws or is disqualified, the ranking list may be revised.
7. Failure on the part of the person concerned to conclude the contract by the deadline shall be deemed to be a waiver of employment.
8. It is permissible to request a reasoned postponement by the interested party of the start of the activity, provided it is compatible with the project activity.
9. The probationary period lasts for three actual months of service; any negative assessment is the responsibility of the Scientific Supervisor.
10. During this period, either party may terminate the contract at any time without notice or compensation in lieu of notice. At the end of the probationary period without the relationship being terminated by either party, the holder of the research contract shall be deemed to be confirmed in service and shall be accorded seniority from the day of recruitment for all purposes.
11. In the event of termination, remuneration is paid up to the last day of actual service.

**Art. 9****(Duration, renewal and extension of the research contract)**

1. Research contracts are for two years and may be renewed once for a further two years.
2. In the case of research projects of a national, European and international character, research contracts may be extended for a further year, depending on the specific requirements relating to the objectives and type of project.

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3. The total duration of research contracts, even if concluded with different institutions, cannot, in any case, exceed five years. For the purposes of calculating the overall duration, periods spent on maternity or paternity leave or leave for health reasons in accordance with the regulations in force are not taken into account.
  4. The request for renewal for two years (allowed only once) or extension for one year (in the case of national, European and international projects only) is proposed by the GDF to which the research contract belongs (cf. art. 3, para. 3 type c research contracts), by the DRU (cf. art. 3, para. 3 type a and b research contracts), at the request of the Scientific Supervisor within the available resources, taking into account the legal constraints.  
The DRU submits the renewal request to the Academic Senate for approval, which will then be approved by the Board of Directors.
  5. Any renewal or extension of the research contract must in any case comply with the constraint of the maximum overall duration of five years set out in Article 22, paragraph 2 of Law 240 of 2010.
  6. Any renewal or extension is proposed by the DRU/Departmental Faculty Council, at the request of the Scientific Supervisor, and subsequently approved by the Academic Senate within the framework of the available resources and taking into account the legal constraints. The resolution of the Academic Senate is approved by the Board of Directors.
  7. The renewal/extension of the employment contract is signed by the research contract holder and the Managing Director and General Manager.

#### **Art. 10** **(Rights and Duties of Contract Holders)**

1. Research contract holders carry out research activities in accordance with the contract project, performing the tasks and functions specified therein.
2. Holders of research contracts have the right to make use of the facilities and equipment of the structure at which they carry out their research activities and to use the services available to them in accordance with the rules in force at that structure.
3. The performance of the research activity outside the structure that proposed the awarding of the contract must be authorised in advance by the proposing party.
4. The holding of contracts does not give rise to any rights as regards access to university roles.
5. The contract holder is subject to the health checks provided for by Legislative Decree 81/2008 at the University's expense and to the regulations on safety in the workplace.

#### **Art. 11** **(Incompatibility)**

1. Research contracts are incompatible with:
  - any other employment relationship, even part-time or fixed-term, with public and private entities;
  - holding research grants also at other universities or public research bodies;
  - scholarships or research grants of any kind awarded by national or foreign institutions, except those exclusively for the purpose of international mobility for research purposes, including PhD scholarships and fees related to the medical specialisation contract.
2. The research contract is not compatible with attendance at degree courses, specialist or master's degrees, PhDs or specialisation courses in the medical area, in Italy or abroad, and entails placement on unpaid leave for the employee serving in public administrations.
3. Notwithstanding the above, the holder of the research contract may not, in any event, engage in activities that may lead to a conflict of interest with the activities of the University.





## DECREE OF THE RECTOR

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### **Art. 12**

#### **(Economic, fiscal, social security and insurance treatment)**

1. The gross annual amount each research contract is EUR 36.844,34 (company cost EUR 51.000,00).
2. The total funding provided for each contract covers, for the duration of 24 months, the total gross cost incurred by the University of EUR 102.000,00.
3. The gross annual salary is not subject to indexation or revaluation.
4. The employment relationship is governed by the relevant provisions in force, also with regard to the tax, welfare, social security and insurance treatment provided for employment income.
5. The University also provides insurance cover against accidents at work and occupational diseases and against civil liability.

### **Article 13**

#### **(Processing of personal data)**

1. The personal data provided by candidates will be processed, subject to the formal authorisation of the persons concerned, exclusively in the manner provided for by the regulations in force in the sector and for the purposes strictly connected and instrumental to the management of the selection procedure.

### **Article 14**

#### **(Competent organisational unit and person in charge of the procedure)**

1. The person in charge of the competition procedure for this notice is Rosa Maria Lauretta, Head of the Competitions Service - Human Resources Department, e-mail: [concorsi@unicampus.it](mailto:concorsi@unicampus.it)

### **Art. 15**

#### **(Final provisions)**

1. For all matters not expressly provided for in this notice, the laws and regulations cited in the introduction and the relevant laws in force apply.

### **Art. 16**

#### **(Publication of the notice)**

1. This decree is made available on the websites:
  - of the University: <https://www.unicampus.it/en/ateneo/concorsi/contratti-di-ricerca/>;
  - of the Ministry of University and Research: <https://bandi.mur.g or v.it/>;
  - of the European Union: <http://ec.europa.eu/euraxess>.

Rome, 10 April 2025

The Chief Executive Officer and General Manager

Signed Dr Andrea Rossi

The Rector

Signed Prof. Eugenio Guglielmelli

Digitally signed document



**Call for Selection for the award of no. 3 research contracts pursuant to art. 22 of Law no. 240/2010, PNRR - Mission 4 "Education and Research" Component 2 "From Research to Enterprise" - Investment 1.2 "Funding of projects submitted by young researchers" (D.D. no. 47 of 20 February 2025).**

Competition code: CDR/01\_25

<b>Departmental Faculty/Research Unit of affiliation</b>	Departmental Faculty of Engineering
<b>Place of activity</b>	Campus Bio-Medical University of Rome Via Giacomo Dina, 36 - Rome
<b>Scientific Disciplinary Group</b>	09/IMIS-01 - Measurements
<b>Scientific Area</b>	IMIS-01/A - Mechanical and thermal measurements
<b>Profile of the researcher to be recruited</b>	<p>PhD with research experience abroad and solid expertise in the design, development and characterisation of sensors and algorithms for monitoring physiological and environmental parameters. With international experience of at least 8 months and specialised in the application of such sensors in the field: Sports: monitoring of athletes to optimise performance and reduce the risk of injury; Occupational: prevention of occupational injuries and diseases; Clinical: development of therapies and rehabilitation pathways tailored to the specific needs of patients.</p> <p>The candidate must have carried out a research period abroad during the PhD of at least three months.</p>
<b>Project title</b>	Development and validation of sensors for monitoring physiological parameters
<b>Description of the research project</b>	The research project focuses on the development and validation of sensors for monitoring physiological (e.g., heart rate, blood pressure, respiratory rate), biomechanical (e.g., joint range of motion and posture) and environmental (temperature, humidity, gas concentrations) parameters. The integration of space-saving sensors with additive manufacturing techniques will make it possible to obtain customised devices that are inexpensive and adaptable to different usage scenarios, guaranteeing their accessibility even in contexts with limited resources.
<b>Scientific Supervisor</b>	Prof. Emiliano Schena
<b>Maximum number of publications</b>	12
<b>Language knowledge and skills</b>	Knowledge of the English language



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PIÙ INCHIESTA E POLIZIA  
PIÙ SALUTE E POLITICA

<b>Date, time and place of interview</b>	<b>7 May 2025, 2 p.m.</b> Remote candidates on <b>Microsoft</b> platform
<b>Funding body</b>	Ministry of University and Research (MUR)
<b>Funding programme/call</b>	PNRR - Mission 4 'Education and Research' Component 2 'From Research to Enterprise' - Investment 1.2 'Funding of projects by young researchers'  Decree for the recruitment of international post-doctoral researchers
<b>CUP</b>	C83C25000470006



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Competition code: CDR/02\_25

<b>Departmental Faculty/Research Unit of affiliation</b>	Science and Technology for Sustainable Development and One Health
<b>Place of activity</b>	Campus Bio-Medical University of Rome Via Alvaro del Portillo, 21 - Rome
<b>Scientific Disciplinary Group</b>	05/BIOS-02 - Plant Physiology
<b>Scientific Area</b>	BIOS-02/A - Plant physiology
<b>Profile of the researcher to be recruited</b>	<p>Expertise in plant molecular biology with a focus on the response of plants to environmental stimuli of different kinds, such as abiotic stresses and light conditions. Expertise in genomics and transcriptomics, with a focus on functional data interpretation. Experience in international universities and research centres possibly in more than one institution and proven ability to acquire research funds.</p> <p>The candidate must have carried out a research period abroad during the PhD of at least three months.</p>
<b>Project title</b>	Studying the molecular mechanisms regulating the response of plants to soils with high salt concentration .
<b>Description of the research project</b>	<p>The project focuses on studying the molecular mechanisms that regulate the response of plants to soils with high salt concentration. The excessive accumulation of salts in the soil compromises the growth of crops of agricultural interest, reducing their productivity and negatively affecting biodiversity. Rice, an essential food for most of the world's population, is particularly sensitive to salt stress. Italy, among the main rice producers in Europe, has developed, through breeding programmes, commercial varieties capable of balancing productivity and resistance to abiotic stress. A screening of some of these varieties allowed the identification of microRNAs, small regulatory RNAs of gene expression, as molecular markers of adaptation mechanisms to high salt concentrations. In particular, miR530 and miR167h are differentially regulated under saline conditions and control the expression of proteins involved in plant responses to stress. This project therefore aims to functionally characterise these miRNAs and their targets through genetic and molecular biology approaches. The expected results will contribute to the identification of new molecular pathways involved in the salt response, expanding knowledge on the interactions between plants and their environment. Furthermore, the data obtained may be applied to breeding programmes for the genetic improvement of crops of national agri-food interest.</p>



<b>Scientific Supervisor</b>	Prof. Laura De Gara
<b>Maximum number of publications</b>	/
<b>Language knowledge and skills</b>	Knowledge of English language level B2
<b>Date, time and place of interview</b>	<b>7 May 2025, 3:00 p.m.</b> Remote candidates on <b>Microsoft</b> platform
<b>Funding body</b>	Ministry of University and Research (MUR)
<b>Funding programme/call</b>	PNRR - Mission 4 'Education and Research' Component 2 'From Research to Enterprise' - Investment 1.2 'Funding of projects by young researchers'  Decree for the recruitment of international post-doctoral researchers
<b>CUP</b>	C83C25000480006



Competition code: CDR/03\_25

<b>Departmental Faculty/Research Unit of affiliation</b>	Medicine and Surgery
<b>Place of activity</b>	Campus Bio-Medical University of Rome Via Alvaro del Portillo, 21, Rome
<b>Scientific Disciplinary Group</b>	05/BIOS-09- Clinical biochemistry and clinical molecular biology
<b>Scientific Area</b>	BIOS-09/A - Clinical biochemistry and clinical molecular biology
<b>Profile of the researcher to be recruited</b>	<p>Experienced researcher in animal experimentation with solid experience in conducting preclinical studies for the evaluation of new drugs and therapies. Specialised in in vivo models, anaesthesia techniques, experimental surgery and behavioural analysis. Knowledge of ethical and animal welfare regulations. Ability to design and manage research protocols, analyse data and publish results. Accuracy, autonomy and aptitude for working in interdisciplinary teams.</p> <p>The candidate must have carried out a research period abroad during the PhD of at least three months.</p>
<b>Project title</b>	Inflammaging phenomenon', a condition characterised by chronic low-grade inflammation associated with ageing
<b>Description of the research project</b>	The research project focuses on the phenomenon of 'inflammaging', a condition characterised by chronic low-grade inflammation associated with ageing. Using genetically modified mouse models and pro-inflammatory treatments, the project aims to understand the molecular and cellular mechanisms that drive the accumulation of inflammation in tissues in old age. Systemic and tissue inflammatory markers, the involvement of innate and adaptive immune cells and related metabolic alterations will be analysed. Advanced techniques of single-cell RNA sequencing, flow cytometry and in vivo imaging will allow characterising the inflammatory microenvironment and its impact on organ function. In addition, therapeutic strategies, such as anti-inflammatory drugs, will be tested to modulate inflammaging and counteract age-dependent diseases, including neurodegeneration, cardiovascular decline and musculoskeletal disorders.
<b>Scientific Supervisor</b>	Prof. Marcello D'Amelio
<b>Maximum number of publications</b>	/
<b>Language knowledge and skills</b>	Knowledge of English language level B2



<b>Date, time and place of interview</b>	<b>7 May 2025, 2 p.m.</b> Remote candidates on <b>Microsoft</b> platform
<b>Funding body</b>	Ministry of University and Research (MUR)
<b>Funding programme/call</b>	PNRR - Mission 4 'Education and Research' Component 2 'From Research to Enterprise' - Investment 1.2 'Funding of projects by young researchers'  Decree for the recruitment of international post-doctoral researchers
<b>CUP</b>	C83C25000490006

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