

**CALL FOR THE ASSIGNMENT OF ADDITIONAL PhD SCHOLARSHIPS - PHD COURSES - (A.Y 2022/2023) - 38° CYCLE - WITH ADMINISTRATIVE HEADQUARTERS AT THE UNIVERSITY OF CAMPANIA LUIGI VANVITELLI - funded by the European Union NextGenerationEU under the P.N.R.R. Mission 4 “Education and Research” Component 2 “From research to enterprise”**

**Art. 1  
(Competition places)**

1. For the academic year 2022/2023, the competition for the assignment of the following PhD scholarships is announced, to be activated under the National Recovery and Resilience Plan, Mission 4 “Education and research” Component 2 “From research to business”, funded by the European Union NextGenerationEU for the Extended Partnership Project, entitled “A multiscale integrated approach to the study of the nervous system in health and disease” for the 38th cycle PhD Courses with administrative headquarters at the University of Campania *Luigi Vanvitelli*, lasting three years, listed below:

<i>PhD Courses</i>	<i>No. PhD scholars hips</i>	<i>PHD SCHOOL IN LIFE SCIENCES</i>
<u><i>PHD SCHOOL IN LIFE SCIENCES</i></u>		
PHD COURSES IN TRANSLATIONAL MEDICINE	3	<u>Spoke 2</u> “Neuronal plasticity and connectivity” <u>Spoke 3</u> “Neuronal homeostasis and brain-environment interaction”
PHD COURSE IN BIOCHEMICAL AND BIOTECHNOLOGICAL SCIENCES	2	<u>Spoke 2</u> “Neuronal plasticity and connectivity”
PHD COURSE IN MEDICAL SCIENCES - CLINICAL AND EXPERIMENTAL	7	<u>Spoke 2</u> “Neuronal plasticity and connectivity” <u>Spoke 5</u> “Mood and Psychosis”
PHD COURSE IN BIOMOLECULAR SCIENCES	2	<u>Spoke 2</u> “Neuronal plasticity and connectivity” <u>Spoke 5</u> “Mood and Psychosis”
<u><i>PHD SCHOOL IN HUMANITIES AND SOCIAL SCIENCES</i></u>		
PHD COURSE IN MENTAL SCIENCES	1	<u>Spoke 2</u> “Neuronal plasticity and connectivity”

2. The training courses referred to in the additional PhD scholarships referred to in art. 1, co. 1 of this call have a three-year duration and will start on **March 1, 2023**.
3. The selection and assignment of scholarships will take place exclusively on related topics described in the attached forms, which are an integral part of this decree, containing information also on the methods and dates of completion of the admission tests.
4. There are no places without scholarships; therefore, the PhD course cannot begin without the scholarship’s acceptance and will be automatically terminated in case of renunciation.
5. For each of the PhD Courses referred to in paragraph 1 above, a specific **descriptive sheet (attachments no. 1 to no. 5)** is attached to this call, which is an integral part of it, and contains:
- the Department of Administrative Headquarters of the PhD Course;
  - the number of additional PhD scholarships;
  - Thematic Areas;
  - any curricula;
  - the procedures for carrying out the admission tests;



- the web pages of the Department and the University where you can find any useful information concerning the educational path, the competition calendar and any useful notification for candidates.
6. The Administration reserves the right to revoke the competition notice, to suspend or postpone the competition tests or to suspend or not proceed with the admission of the winners or to suspend or not to award all the scholarships provided for in the competition notice itself, due to needs currently not assessable. In particular, the assignment of the places, part of the competition, as well as the awarding of scholarships are subject to ministerial approval and the signing of the Act of Obligation relating to the project involved; in the event that the MUR does not pay the funding for the coverage of the aforementioned scholarships, they will not be disbursed, with consequent forfeiture of the positions attributed to the winning candidates.
7. This call, written in Italian and translated into English, is published in the University Telematic Register of the University of Campania *Luigi Vanvitelli*: [www.unicampania.it](http://www.unicampania.it) – On-line Register; This publication has the value of official notification to interested parties for all the information contained therein. Therefore candidates will not receive further communications. This call is also advertised electronically on the University website, [www.unicampania.it](http://www.unicampania.it), on the page: PhDs, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/iscrivere-ad-un-dottorato> . The notice of this call will also be published on the European website Euraxess and on that of the Ministry of University and Research. Any corrections will be made known exclusively, with the publication in the aforementioned University Telematic Register.

## Art. 2

### **General requirements for participation**

1. Applicants can participate in the competition for admission to PhD Courses and the relative assignment to the additional PhD scholarships indicated in art. 1 co. 1 of this call, without age and citizenship limits, if they are in possession of one of the following qualifications:
  - specialist or master's degree obtained pursuant to Ministerial Decree no. 270/2004 (replacing 509/1999);
  - a degree of at least four years, obtained in accordance with the previous regulations;
  - academic qualification equivalent to an Italian degree lasting at least four years obtained at foreign universities.
2. Those who obtain the qualification required for admission within the deadline of January 13 2023, may also submit the application for participation in the competition.
3. All candidates are admitted to the competition procedure subject to verification of self-certified declarations pursuant to Presidential Decree no. 445/2000 and subsequent amendments. The University may, at any time during the proceedings, carry out checks on the veracity of the declarations and request the presentation of the original documents, even after the start of the PhD Courses. The Administration may order, at any time, with a reasoned measure, the exclusion of candidates from the competition procedure or the forfeiture of admission to the PhD Courses, for lack of the qualifications required by this call, without prejudice to criminal liability deriving from false declarations. This measure will be communicated to the interested party by registered letter with acknowledgement of receipt.

4. Candidates in possession of a qualification obtained abroad that has not already been recognised as equivalent to the degree diploma must request its suitability - solely for the purposes of admission to the competition for the PhD Course - to the PhD Admission Commission in compliance with current legislation. In this case, the application form must be accompanied, under penalty of exclusion, by the following documentation to be submitted using the online procedure referred to in Article 3 below:
- qualification for admission to the PhD Programme translated in Italian or English, by the competent diplomatic or consular representations or by an official translator;
  - request to the Admission Commission for judgement of suitability.

It should be noted that, in case of admission to a PhD Course, for the issuance of a residence visa, it will still be necessary to request the certificate of equivalence in your country of origin from the competent diplomatic authorities.

### **Art. 3**

#### ***Application form (deadline and modality)***

- The application for participation in the competition, accompanied by the required documentation, must be completed, under penalty of exclusion – after viewing the descriptive sheet relating to the individual PhD Course (attachments no. 1 to no. 5) and submitted exclusively electronically, using the appropriate online procedure, available at: <https://pica.cineca.it/unicampania/dottorati38-bis/>, **starting from 02:00 pm (Italian time) of December 16, 2022, and before and not past 11:59 pm (Italian time) of January 16, 2023.**  
After this deadline, the system will close automatically and will not allow application submission.
- The application submitted in different ways will not be taken into consideration for the purposes of participation in the competition.  
In no case will additions to the documentation be admitted after the aforementioned deadline of the call.  
Before the final closure of the application form, candidates must print the application, sign it and upload the PDF in the procedure, attaching a copy, in colour, of a valid identity document, the research project and other useful qualifications.  
With the final closure of the online procedure, the application is automatically forwarded to the University. Therefore, no paper material must be sent to the Offices.  
Candidates are invited to complete the application for participation in the competition well in advance of the deadline for this announcement.  
It is the responsibility of the candidates to verify the correct conclusion of the procedure. Complaints will not be accepted for any computer system malfunctions due to technical problems and/or overloads of the communication line and/or application systems.
- The application form must be accompanied by documents, qualifications, the research project and a colour photocopy of a valid identity document, in electronic format “PDF”.  
It will be the candidate’s responsibility to verify the correct upload of what is requested, taking into account that only and exclusively the correctly attached qualifications will be evaluated for the purposes of participation in the competition. The Administration assumes no responsibility if it is impossible to read the documentation submitted in electronic format due to damaged files or folders.

4. Candidates who intend to apply for admission to more than one PhD Course must submit as many applications as there are chosen Courses, attaching the required documentation for each application.
5. The application is to be considered for all legal purposes as a self-certification, pursuant to Articles 46 and 47 of Presidential Decree 445/200 and subsequent amendments, the data contained therein and the documents attached.
6. To participate in the competition, for each application, candidates with Italian citizenship must provide a payment of € 10.00 (ten euros) as a contribution to participate in the admission tests to the PhD Course by the deadline for applying, under penalty of exclusion from the course. Payment must be made with the same electronic procedure using the pagoPA system. The aforementioned contribution will not be refunded under any circumstances. Those who make the payment of the fee in ways other than those described above or outside the terms indicated above will not be admitted to participate in the competition procedure. Foreign citizens not in possession of Italian citizenship are exempt from paying the aforementioned contribution.
7. Candidates will be excluded from participation in the admission competition:
  - If they do not meet the general admission requirements referred to in art. 2 of this announcement;
  - If their application:
    - Is not accompanied by an identity document;
    - is not accompanied by the mandatory documents, in particular, the research project;
    - (for the Italian candidate only) is not accompanied by the payment of € 10.00 (ten euros) as a participation contribution;
    - (for candidates holding a foreign qualification) is not accompanied:
      - a) by the academic qualification translated according to the provisions of the previous art. 2;
      - b) by a request for judgement of suitability to the Admission Commission in the event that it has not already been declared equivalent.

#### **Art. 4**

##### ***Documentation to be attached to the application form***

1. For the purpose of evaluating the qualifications, candidates must attach the documents, the degree thesis and the other qualifications referred to in art. 5 to the application to the competition in certified copy or simple copy, whose conformity to the original is declared by the candidate in the electronic application form.
2. Candidates with a qualification obtained in Italy can attach deeds and documents written in Italian, English, French or Spanish. The acts and documents drawn up in a different language must bear a translation into Italian certified in conformity with the foreign text by the competent Italian diplomatic or consular representation, or by an official translator or with a substitution of the deed of notoriety.
3. Candidates with qualifications obtained abroad must attach a copy of the qualification required for admission to the online application translated into Italian or English, by competent diplomatic or consular representations or by an official translator.



The additional documents and qualifications that can be evaluated must be produced in Italian, English, French or Spanish and self-certified according to Italian law  
Subsequently, within 60 days of the publication of the general ranking of merit, the winners must produce the Declaration of Value of the qualification required for admission.

## Art. 5

### **Admission tests, assessable qualifications and evaluation criteria**

- The admission tests to the PhD Courses are intended to ascertain the candidate's aptitude for scientific research, and the candidate must also demonstrate a good knowledge of the foreign language indicated in the form of each PhD Course attached to this announcement.
- The competition procedure provides for the evaluation of qualifications, including the mandatory presentation of a **research project** concerning one of the related topics indicated in the PhD Course Form **drawn up according to the format illustrated below** and an **oral test**. The aforementioned **research project, of no more than 1500 words**, must indicate:
 
  - Project title;
  - State of the art;
  - Objectives of the project and its connection with the topics indicated for each PhD Course (*attachment from n. 1 to n. 5*);
  - Methodology and related timing over the 3 years of the Doctorate;
  - Expected results and possible risk strategies;
  - Degree of organisational and financial feasibility;
  - Involvement of Italian and/or foreign research structures and/or researchers, with related motivations;
  - Essential bibliography up to a maximum of 12 titles (above 1500 words).
- The President of the Admissions Commission will announce the competition calendar by January 23, 2023, on the website of the Department indicated in the attached PhD Course sheet.  
The publication of this announcement and the data contained in the attached sheets have the value of notification for all purposes. Therefore, competitors who have not been notified of the exclusion from the competition will have to take the exam according to the indicated calendar without any further notice.  
Any changes in the date and time of the selection tests will be published on the same website of the Department indicated in the attached PhD Course sheets.
- The Admissions Commissions referred to in art. 6, for the evaluation of candidates, have 100 points divided as follows:
 

<b>Title:</b>	<b>Max 40 points</b>
<i>(including the research project max 10 attributable points)</i>	
<b>Interview:</b>	<b>Max 60 points</b>

The minimum score to access the interview is at least 12 points.  
The minimum score to pass the interview is at least 42 points.
- The Commissions waiting for the binding research topics referred to in the sheets of each attached PhD Course **will proceed to the exclusion, without any evaluation of the qualifications, of candidates who have presented a research project not relevant to the aforementioned topics.**





6. For the evaluation of qualifications, without prejudice to the autonomy of the Admission Committees, the following documentation can be assessed:
- a) *the **degree thesis in full format*** (or, for graduating candidates only, drafting of the thesis in progress of being deposited countersigned by the supervisor and with the stamp of the reference department) assessable in consideration of the content and congruence with respect to the PhD or at least one of the SSD of participation  
**max 6 points attributable**
  - b) *the **degree mark*** that can be evaluated according to proportional parameters (or equivalent characteristics);  
**max 10 points attributable**
  - c) ***monographs and publications in peer-reviewed journals*** or series that can be evaluated if with specific relevance to the SSD(s) covered by the PhD and already published or with a certificate of acceptance and forthcoming publication from the publisher;
    - Patents that can be evaluated if with specific relevance with respect to the SSD object of the PhD**max 8 points attributable**
  - d) Post-graduate qualifications, such as specialisation diplomas, specialisation courses, and masters of at least one-year duration issued by universities or qualified research institutions, can be evaluated if congruent with the PhD's SSD (s).  
**max 2 points attributable**
  - e) ***Collaboration grants for research activities*** that can be evaluated if congruent with the PhDs SSD (s);
    - ***scholarships*** that can be evaluated if awarded following selective procedures carried out exclusively by Italian or foreign universities or by research institutes of primary and proven importance;
    - ***periods of study and research abroad*** (including the Erasmus period) assessable if carried out at universities or qualified research institutes for a continuous period of not less than 3 months;
    - the prizes obtained by national and international Scientific Societies that can be evaluated if congruent with the PhDs SSD (s);**max 2 points attributable**
  - f) *The other documents deemed useful by the Admission Commission for a complete evaluation, such as:*
    - *participation in research activities* that can be evaluated if proven by a letter of reference from a university professor with ASN commission criteria or by a qualified international researcher;
    - appointment as an expert of the subject assessable if decided prior to the date of issuance of the call;
  - g) the research project prepared according to the indications referred to in co. 2 of this article  
**max 10 points attributable**
7. Only candidates residing or domiciled outside the Region will be able to participate in the interview concerning the qualifications and the research project presented via Skype video conference (or other similar channel) after ascertaining the identity of the applicant verifiable



with the contextual exhibition of the valid identity document, colour copy of which has been attached to the application form

It is forbidden to make an audio/video recording of the interview remotely through the computer platforms used. It is also forbidden for anyone to broadcast the audio/video recording made with tools other than the platform.

The absence of the candidate on the day and time of the oral exam will be considered a waiver of the competition, whatever the cause.

8. The oral exam will focus on an interview concerning the research project presented. The absence of the candidate on the day and time of the oral exam will be considered a waiver of the competition, whatever the cause.
9. For the evaluation of the oral test (interview), without prejudice to the autonomy of the admission commissions, the evaluation criteria are:
  - a) *Clarity of presentation* **max 10** points attributable
  - b) *Synthesis ability* **max 5** points attributable
  - c) *critical spirit and adequate knowledge of the topics related to the titles presented* **max 20** points attributable
  - d) *ability to carry out part of the interview in the foreign language* chosen from those indicated in the form of each course attached to the announcement **max 5** points attributable
  - e) *ability to answer in-depth questions on the research project presented* **max 20** points attributable
10. In the evaluation of the projects submitted by the candidates, the Admission Committees will take into account the following criteria:
  - a) relevance of the project presented to one of the research topics listed in the attached sheets for each PhD Course with respect to the “workpackage” indicated for each spoke (Spoke 2 “*Neuronal plasticity and connectivity*”, Spoke 3 “*Neuronal homeostasis and brain-environment interaction*” and Spoke 5 “*Mood and Psychosis*”);
  - b) conformity of the project presented with the doctoral path of the PhD Course and any Curriculum chosen in terms of SSD involved and teaching and research activities envisaged by the same;
  - c) measurability of the expected results: presence within the project presented of quantifiable and measurable targets consistent with the indicators provided by the reference action of the theme. 12 Neuroscience and neuropharmacology – Project “*A multiscale integrated approach to the study of the nervous system in health and diseases*”.

## Art. 6

### **Admission fees and their fulfilment**

1. For the allocation of the additional scholarships referred to in this announcement, the Admission Commission will be appointed by Rector’s decree, composed in accordance with the provisions of art. 22 of the University Regulations containing the rules on the subject of PhD mentioned in the introduction.
2. The composition of the individual Commissions will be published on the University website: [www.unicampania.it](http://www.unicampania.it) at the page: *Dottorati di Ricerca*, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/iscrivarsi-ad-un-dottorato>

3. The individual Selection Boards will provide, among other things:
  - to hold the preliminary meeting to establish the criteria and methods for evaluating the competitive examinations before January 23 2023, in order to ensure an appropriate and transparent comparative evaluation of the candidates and to display the detailed competition calendar on the website of the Department indicated in the attached PhD Course sheets;
  - the publication of the results of the qualification evaluation by January 27, 2023; this evaluation must be reported and published in a sufficiently analytical way on the Department's website, indicated in the attached PhD Course sheets;
  - the publication of the results of the oral test by February 6 2023.
4. The work of the committee will begin no later than January 20, 2023, and must be concluded no later than February 6, 2023.

#### **Art. 7**

##### ***Approval of the general merit ranking***

1. By rectoral decree, the general merit ranking will be approved for each PhD Course, formulated according to the descending order of the overall score reported by each candidate. In the event of a tie between two or more candidates, gender balance will be taken into account, i.e. the minority gender will prevail among the candidates placed in a higher position in the same ranking, and in the event of a further tie, the younger candidate will prevail.
2. In the event that the candidate is the winner of more than one PhD Course, he/she must opt for only one additional PhD scholarship. The choice made at the time of registration is final, and it will not be modifiable in any way.
3. The aforementioned general merit rankings relating to the individual competitions for admission to the PhD Courses - 38th cycle - will be announced on February 13 2023, on the University website – [www.unicampania.it](http://www.unicampania.it) on the page: *PhDs*, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/isciversi-ad-un-dottorato>  
This posting will have the value of official notification to the interested parties. Therefore, no personal communications will be sent to the candidates.

#### **Art. 8**

##### ***Winner Enrolment***

1. For the purposes of admission to the PhD Programme, the winning candidates must submit an application for enrolment and make the related declarations from 02:00 pm on February 13, 2023, and no later than 02:00 pm on February 16, 2023, exclusively according to the operating procedures that will be published by February 13, 2023, on the University website – [www.unicampania.it](http://www.unicampania.it) at the page: *PhD*, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/isciversi-ad-un-dottorato>. Those who do not do so within the deadline will be considered forfeited for all purposes, and vacancies will be assigned to those who hold a useful position in the merit ranking. The rankings will be scrolled, for the assignment of vacancies, according to the terms indicated in the following table:



	<i>date of publication of eligible candidates entitled to the scroll</i>	<i>Registration deadlines</i>
<b><i>The scroll</i></b>	<b>February 17, 2023</b>	<b>February 17, 2023</b> Before 02:00 pm of <b>February 20 2023</b>

2. After the deadline of February 21, 2023, no further scrolling will take place in case of withdrawal of the winners.
3. In case of useful placement in several rankings of different PhD Courses, the candidate must exercise the option for a single PhD Course.
4. Candidates who are suitable but not winners are invited to consult the web page indicated above in order to acquire useful information relating to any scrolling of the general rankings of merit.

### **Art. 9**

#### ***Scholarships, fees and contributions***

1. The scholarships, which can also be financed with the help of several funding sources, have a total duration of at least three years.  
They are assigned, for the entire course duration, to those enrolled in PhD courses according to the order defined in the general ranking of merit. They are renewed annually, subject to positive verification of the completion of the program of activities planned for each year.  
The teaching staff establishes the renewal procedures and codifies the course regulations. If the scholarship is not renewed or the PhD student renounces it, the student automatically lapses from enrolment in the PhD course and is required to return the scholarship received as indicated in the PNRR specification.
2. The amount of the scholarship for the academic year 2022/2023 is equal to 16,243.00 and is paid in monthly instalments, postponed to the attendance and study and research activity rendered, with the exception of PhD students with foreign citizenship, for whom the payment is always made in advance monthly instalments.
3. The scholarship increase is established at 50% for a total period not exceeding twelve months for carrying out research activities abroad authorised by the board of teachers. This period can be extended to a maximum of eighteen months for PhDs in co-supervision with foreign subjects.
4. To carry out research activities in Italy and abroad, in addition to the scholarship, the PhD student is guaranteed a budget appropriate to the type of PhD course and the specific discipline, and in any case, to an extent not less than 10% of the amount of the scholarship itself, for the first year of the course, and in an amount equal to 20% of the amount of the scholarship starting from the second year, with the exception of PhD courses of national interest for which the budget allocated for each year of the course is always equal to 20%.
5. The PhD student is authorised by the coordinator, subject to the approval of the supervisor, for the following expenses:
  - a) missions of PhD students in Italy and abroad, registration for conferences, seminars, etc.;
  - b) consumables for research in which PhD students are involved (for example chemical reagents, electrical and electronic equipment, stationery, etc.);



- (c) goods/equipment (e.g. hardware, software, scientific equipment). The assets must be inventoried and, at the end of the PhD cycle, will remain the property of the University. Of course, it is not possible in any case to purchase goods/equipment for personal use (for example, mobile phones, tablets, etc.);
  - d) publication fees;
  - e) specific training for research (for example, language courses, advanced training courses, etc.);
  - f) events in which PhD students are directly involved (for example, PhDay);
  - g) in case of availability of unused funds, the Board of Professors may decide to use them for the payment of the trips of Foreign Commission members for the thesis discussion, which provide for the conferral of the additional foreign qualification to the PhD student (for example Doctor Europaeus).
6. PhD students authorised abroad for research stays during which they benefit from the scholarship increase are also entitled to reimbursement permission in order to encourage international exchanges.
  7. The PhD scholarship is subject to the payment of social security contributions to INPS separately managed pursuant to Article 2, paragraph 26, of Law no. 335 of August 8, 1995, to the extent of two-thirds to be paid by the administration and one third to be paid by the scholarship holder. PhD students benefit from related protections and rights.
  8. The scholarship for attendance to the PhD course is compatible with other personal income received in the calendar year to the highest limit of the scholarship amount. For the purposes of verifying this threshold, personal income deriving from work is taken into account, excluding the amount of the grant or any income support benefits paid on the basis of the grant (such as maternity allowance).
  9. Those who have already benefited from a scholarship for a PhD course cannot apply for a second time.
  10. The scholarships cannot be combined with other scholarships for any reason awarded, except with those granted by national or foreign institutions useful to supplement the training or research activities of scholarship holders with a stay abroad.  
Scholarships for PhD attendance are compatible with Erasmus scholarships.

#### **Art. 10**

##### ***One-off contribution for foreign enrolments residents abroad and Italians not resident in the Campania Region***

1. A one-off contribution is required for accommodation costs. This contribution will be attributed to foreign registered persons residing abroad or outside the Campania Region without making a specific request.
2. The minimum amount of the “one-off” contribution will be defined on the basis of the number of those entitled up to the competition of the specially allocated budget, while the maximum amount per capita cannot exceed € 5,000.  
This fee must be returned in case of withdrawal from the PhD Course during the first year of attendance.

## **Art. 11**

### ***Tax for the right to university study***

1. **No later than the deadline set for enrolment**, the winners, Italian and foreign, with or without a scholarship, are required to pay the virtual stamp of € 16.00 and the regional tax for the right to university study for the academic year. 2022/2023, determined on the basis of the economic condition of the PhD student commensurate with the level of the Indicator of the Equivalent Economic Situation (ISEEU) relating to the benefits for the right to university study.
2. The ISEEU certificate relating to your family unit must be requested from the competent offices responsible for issuing the certification at least 10 days before enrolment starts so as not to fall automatically into the highest income bracket.
3. With subsequent notice on the University website – [www.unicampania.it](http://www.unicampania.it) on the page: *PhD*, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/iscriversi-ad-un-dottorato> the income range and the methods for producing the ISEEU will be announced.

## **Art. 12**

### ***Obligations and rights of PhD students***

1. The PhD course requires an exclusive and full-time commitment, without prejudice to the provisions of Article 12, paragraph 4 and Article 10, paragraph 2, letter b) of the Ministerial Decree. 226/2021. 2. PhD students, with and without scholarships, are obliged to:
  - carry out the training course approved by the board of teachers with exclusive commitment;
  - assiduously attend the course activities provided by the board of teachers;
  - participate in joint courses within the PhD school;
  - submit oral or written reports on the activities and research carried out;
  - draw up personal records of the activities referred to in paragraph 4 below;
  - comply with anything else decided by the board of teachers or required by the regulations for the implementation of specific funding to cover the PhD scholarship;
  - write the PhD thesis with original contributions at the end of the course.
2. PhD students must acquire at least 60 credits each year, distributed according to the training program agreed upon with the supervisor and the co-supervisor(s) and approved by the board of teachers, consistent with the educational offer advertised annually on the website of the department of the course on the PhD page. Where required by specific funding projects that can benefit individual courses, the aforementioned hourly credits will be converted into training hours that PhD students are required to respect.
- 3 The activities of PhD students must be recorded in personal registers and include:

Course activities, research activities, personal study, bibliographic research and research in archives, ongoing checks, participation in seminars, courses and conferences, activities at structures outside the University (other universities, research institutions, companies), in Italy and abroad, any supplementary teaching activities and tutoring activities and anything else arranged by the teaching board that leads to the completion of the training course. It is absolutely forbidden to carry out research activities related to the PhD in private institutions or structures unless authorised by the teaching staff. The violation of this rule provides for the forfeiture of the PhD course.

4. The veracity of the different activities carried out by the PhD students is attested by the coordinators on the basis of the indications provided by the supervisor and the co-supervisor(s).
5. At the end of each year of the PhD course, the board of teachers decides on admission to the following year or proposes to the Rector the exclusion from the continuation of the course on the basis of a detailed report on the activities and research carried out by each PhD student,
6. For each PhD student, the teaching staff carries out research and training activities on an ordinary basis, consistent with the doctoral project, at highly qualified institutions abroad, for a total period not exceeding twelve months. This period can be extended to a maximum of eighteen months for PhDs in co-supervision with foreign subjects. In planning training activities abroad, the college may take into account the proposal of the supervisor and the co-supervisor(s) of the PhD student who must propose the program of activities, the title of the project and the invitation letter of the foreign supervisor. For periods of attendance abroad, the scholarship is increased by 50%.
10. PhD students have an obligation of confidentiality in relation to research activities in which they participate in external bodies.
11. Following enrolment in the course, each PhD student will have a University e-mail box through which he will receive institutional communications. It is mandatory to consult the institutional e-mail as well as to constantly inquire through the University website and the department website for general and specific communications relating to the doctorate. The PhD student is also obliged to register on the ministerial website on the MIUR Login page to be registered as a research potential of the University.
12. All administrative information concerning PhD students, as well as their careers, will be published on the University website - [www.unicampania.it](http://www.unicampania.it) on the page: PhDs, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-diricerca/isciversi-ad-un-dottorato> – The aforementioned publication is a substitute for any other communication and, therefore, the winners are required to connect to the aforementioned site for constant updating.

#### **Art. 13**

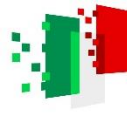
##### ***Achieving the PhD***

1. The title of PhD, abbreviated as “Dr Ric.” or “PhD”, is awarded following the positive evaluation of a research thesis that contributes to the advancement of knowledge or methodologies in the chosen field of investigation.
2. The title of PhD is conferred by the Rector within the limits allowed. He certifies the achievement with the release of the parchment.

#### **Art. 14**

##### ***Processing of personal data***

1. According to art.13 and 14 of the GDPR - General rules on the protection of EU data no. 2016/679, the personal data supplied by the candidates will be kept at the University of Campania “Luigi Vanvitelli” for the management of the selection and will be processed in paper form and through an automated database. The conferment of this data is mandatory to check the requirements to participate in the competition and its management.



2. Data subjects enjoy the rights referred to in Articles 15 to 22 of the aforementioned EU Regulation 2016/679. It includes the right of access to data concerning the subject, as well as some complementary rights, including the right to rectify, update, complete or delete erroneous, incomplete or data collected in terms that do not comply with the law, as well as the right to oppose their processing for legitimate reasons.
3. These rights may be asserted against the University of Campania *Luigi Vanvitelli*, Viale Lincoln n. 5 – 81100 Caserta, the data controller, by sending to the Data Protection Officer (DPO) a request with the object:  
“Privacy rights” e-mail: [rpd@unicampania.it](mailto:rpd@unicampania.it) or PEC: [rpd@pec.unicampania.it](mailto:rpd@pec.unicampania.it)  
Please refer to the privacy policy published on the university website at the following link for further and more detailed information <https://www.unicampania.it/index.php/privacy>.

#### **Art. 15**

##### ***Organisational unit Responsible for the procedure***

1. The organisational unit responsible for the competition procedure is the Office for Research Training, at Viale Ellittico n. 31 - 81100 Caserta; Contact E-mail [ufficio.formazioneicerca@unicampania.it](mailto:ufficio.formazioneicerca@unicampania.it) - Responsible of the procedure: dott.ssa Michela Schettino.

#### **Art. 16**

##### ***Reference***

1. For anything not covered by this call, please refer to the legislation currently in force on the subject. In particular, the University Regulations containing rules on PhDs mentioned in the introduction, which can be consulted on the University website – [www.unicampania.it](http://www.unicampania.it) on the page: *PhD*, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca>





<b>Attachment n. 01</b>	
<b>ADDITIONAL PHD SCHOLARSHIPS - Funded by NextGenerationEU under the National Recovery and Resilience Plan (P.N.R.R.) Mission 4 "Education and research", Component 2 "From Research to Enterprise"</b>	
<b>INFORMATION SHEET OF THE PHD COURSE IN TRANSLATIONAL MEDICINE - XXXVIII Cycle</b>	
Coordinator	Prof. Katherine ESPOSITO email: <a href="mailto:katherine.esposito@unicampania.it">katherine.esposito@unicampania.it</a>
Administrative headquarters of the Course	Department of Experimental Medicine
PhD school:	LIFE SCIENCES
Director:	Prof. Katherine ESPOSITO
Duration	3 years
Scientific areas/Subject matters:	MED/13 - MED/04 - MED/06 - MED/05 - MED/09 - MED/11 - MED/14 - MED/16 - MED/17 - MED/18 - MED/23 - MED/26 - MED/30 - MED/36 - MED/37 - MED/38 - MED/40 - BIO/09 - BIO/14 - CHIM/11.
<b>TOTAL ADDITIONAL PHD SCOLARSHIPS</b>	<b>N. 3</b>
<b>SCHOLARSHIP N.1 e SCHOLARSHIP N.2</b>	
<b>THEMES</b>	
Neuronal plasticity and connectivity	
<b>PROJECT TITLE</b>	
Integrated technologies for brain connectomics	
<b>DESCRIPTION OF THE RESEARCH ACTIVITIES</b>	
The candidate doctorate projects should aim at contributing to the integration of multi-modal imaging technologies for brain connectomics into medically interpretable AI models and to the development of connectivity-based machine learning algorithms in order to address neuronal plasticity in health and disease for the design of personalized treatments. The proposal should clearly encompass the topic of multi-modal brain connectivity and possibly aim at addressing the role of structure, function, metabolism and connectome layers in explaining the neuronal plasticity in health and disease using multi-modal neuroimaging.	
<b>SCHOLARSHIP N.3</b>	
<b>THEMES</b>	
Neuronal homeostasis and brain-environment interaction	
<b>PROJECT TITLE</b>	
Sensory and autonomic interface for brain-environment interaction: tools, models, and neuropharmacological interventions	
<b>DESCRIPTION OF THE RESEARCH ACTIVITIES</b>	
The candidate doctorate projects should aim at the interaction between sympathetic neurons and target cells in the pathogenesis of neurological diseases, and the impact of cardiovascular disease in dysfunctional cell interaction. The proposed projects should possibly encompass the identification of therapeutic targets and biomarkers for neurodegeneration and autonomic dysfunction in the context of chronic cardiovascular diseases using cell cultures and in vivo models. These experimental platforms should serve to screen the activity of known molecules (drug repurposing), and validate novel drugs and delivery strategies, including micro- and nanotechnology-based delivery systems.	
<b>The procedures for carrying out the admission exams</b>	
- <b>Evaluation of qualifications</b> , including the compulsory submission of a research project according to the competition information;	



- **Interview** that will be carried out according to the procedures indicated in art. 5 of the competition;
- **Foreign language** which will be verified during the interview: English.

**Location and calendar of the competition**

Consult the following web page of the Department from **January 23, 2023**

<https://www.medicinasperimentale.unicampania.it/didattica/dottorato-di-ricerca-in-medicina-traslazionale>

**Other useful information**

For any useful information, please consult the University website at the following link

<https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca> and the Department website

<https://www.medicinasperimentale.unicampania.it/didattica/dottorato-di-ricerca-in-medicina-traslazionale>

**Useful Contacts**

<b>Didactic/scientific referent:</b>	Prof. Katherine ESPOSITO email: <a href="mailto:katherine.esposito@unicampania.it">katherine.esposito@unicampania.it</a>
<b>Administration referent:</b>	Dr. Biagio CARRELLA - email: <a href="mailto:biagio.carrella@unicampania.it">biagio.carrella@unicampania.it</a>

<b>Attachment n. 02</b>	
<b>ADDITIONAL PHD SCHOLARSHIPS - Funded by NextGenerationEU under the National Recovery and Resilience Plan (PNRR) Mission 4 "Education and research", Component 2 "From Research to Enterprise"</b>	
<b>INFORMATION SHEET OF THE PHD COURSE IN</b>	
<b>BIOCHEMICAL AND BIOTECHNOLOGICAL SCIENCES - XXXVIII Cycle</b>	
Coordinator	Prof. Fulvio DELLA RAGIONE email: <a href="mailto:fulvio.dellaragione@unicampania.it">fulvio.dellaragione@unicampania.it</a>
Administrative headquarters of the Course	Department of <i>Precision Medicine</i>
PhD school: Director:	LIFE SCIENCES Prof. Katherine ESPOSITO
Duration	3 years
Scientific areas/Subject matters:	BIO/09 - BIO/10 - BIO/12 - BIO/13 - BIO/14 - BIO/16 - BIO/17 - CHIM/03 - CHIM/07 - MED/01 - MED/04 - MED/06 - MED/07 - MED/28
Training curricula (to be activated by the Board of Teachers following the admission of the winners to the course, based on the number of application requests for participation in the competition and following the ranking order)	• <i>Microbiology and Pathophysiology</i>
<b>TOTAL ADDITIONAL PHD SCOLARSHIPS</b>	<b>N. 2</b>
<b>SCHOLARSHIP N.1 e SCHOLARSHIP N.2</b>	
<b>THEMES</b>	
Neuronal plasticity and connectivity	
<b>PROJECT TITLE</b>	
Molecular and cellular mechanisms of neuronal communication & plasticity in vitro and in vivo	
<b>DESCRIPTION OF THE RESEARCH ACTIVITIES</b>	
<p>The candidate doctorate projects should aim at unraveling the molecular and cellular determinants of physiological plasticity and model the altered plasticity to study pathophysiological mechanisms of neurological disorders. The proposal may employ transcriptomics, biochemical, electrophysiological and live imaging techniques in integrated cellular models of murine and human origin, to define the role of epigenetic factors, altered intracellular signalling, protein-protein interaction and homeostasis, neuro-vascular coupling and hormones in neuronal homeostasis and plasticity and their role in pathology, and animal models of neurodevelopmental and neurodegenerative disorders to study neuronal plasticity and connectivity with in-vivo and ex-vivo electrophysiology, live imaging and behavioral analysis. The proposal may also use cellular models of neuronal connectivity to address the balance of excitatory and inhibitory neuronal connections using machine and deep learning technologies with biomimicry, or animal models of neurodevelopmental and neurodegenerative disorders to study neuronal plasticity and connectivity with in-vivo and ex-vivo electrophysiology, live imaging and behavioral analysis.</p>	
<b>The procedures for carrying out the admission exams</b>	
<ul style="list-style-type: none"> <li>- <b>Evaluation of qualifications</b>, including the compulsory submission of a research project according to the competition information;</li> <li>- <b>Interview</b> that will be carried out according to the procedures indicated in art. 5 of the competition;</li> <li>- <b>Foreign language</b> which will be verified during the interview: English.</li> </ul>	
<b>Location and calendar of the competition</b>	
Consult the following web page of the Department from <b>January 23, 2023</b> <a href="https://www.medicinadiprecisione.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-biochimiche-e-biotecnologiche">https://www.medicinadiprecisione.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-biochimiche-e-biotecnologiche</a>	
<b>Other useful information</b>	
For any useful information, please consult the University website at the following link <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> and the Department website <a href="https://www.medicinadiprecisione.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-biochimiche-e-biotecnologiche">https://www.medicinadiprecisione.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-biochimiche-e-biotecnologiche</a>	



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Università  
degli Studi  
della Campania  
Luigi Vanvitelli

[biotecnologiche](#)

*Useful Contacts*

<b>Didactic/scientific referent:</b>	Prof. Fulvio DELLA RAGIONE - email: <a href="mailto:fulvio.dellaragione@unicampania.it">fulvio.dellaragione@unicampania.it</a>
<b>Administration referent:</b>	Mrs. Giuseppina CARFORA - email: <a href="mailto:giuseppina.carfora@unicampania.it">giuseppina.carfora@unicampania.it</a>

<b>Attachment n. 03</b>	
<b>ADDITIONAL PHD SCHOLARSHIPS - Funded by NextGenerationEU under the National Recovery and Resilience Plan (PNRR) Mission 4 "Education and research", Component 2 "From Research to Enterprise"</b>	
<b>INFORMATION SHEET OF THE PHD COURSE IN CLINICAL AND EXPERIMENTAL MEDICAL SCIENCES - XXXVIII Cycle</b>	
Coordinator	Prof. Armida MUCCI email: <a href="mailto:armida.mucci@unicampania.it">armida.mucci@unicampania.it</a>
Administrative headquarters of the Course	Department of <i>Mental and Physical Health and Preventive Medicine</i>
PhD school: Director:	LIFE SCIENCES Prof. Katherine ESPOSITO
Duration	3 years
Scientific areas/Subject matters:	MED/01 - MED/06 - MED/08 - MED/09 - MED/12 - MED/14 - MED/17 - MED/18 - MED/19 - MED/21 - MED/24 - MED/25 - MED/26 - MED/34 - MED/37 - MED/39 - MED/41 - MED/42 - MED/43 - MED/48 - BIO/10 - BIO/11 - BIO/13 - BIO/16 - FIS/07 - ING-INF/06
Training curricula (to be activated by the Board of Teachers following the admission of the winners to the course, based on the number of application requests for participation in the competition and following the ranking order)	<ul style="list-style-type: none"> <li>• <i>Internal Medicine/Geriatrics;</i></li> <li>• <i>Neurology;</i></li> <li>• <i>Psychiatry</i></li> </ul>
<b>TOTAL ADDITIONAL PHD SCHOLARSHIPS</b>	<b>N. 7</b>
<b>SCHOLARSHIP N.1 e SCHOLARSHIP N.2</b>	
<b>THEMES</b>	
Neuronal plasticity and connectivity	
<b>PROJECT TITLE</b>	
Integrated technologies for brain connectomics ( <i>training curriculum Neurology</i> )	
<b>DESCRIPTION OF THE RESEARCH ACTIVITIES</b>	
The candidate doctorate projects should aim at contributing to the integration of multi-modal imaging technologies for brain connectomics into medically interpretable AI models and to the development of connectivity-based machine learning algorithms in order to address neuronal plasticity in health and disease for the design of personalized treatments. The proposal should clearly encompass the topic of multi-modal brain connectivity and possibly aim at addressing the role of structure, function, metabolism and connectome layers in explaining the neuronal plasticity in health and disease using multi-modal neuroimaging.	
<b>SCHOLARSHIP N.3</b>	
<b>THEMES</b>	
Neuronal plasticity and connectivity	
<b>PROJECT TITLE</b>	
Molecular and cellular mechanisms of neuronal communication & plasticity in vitro and in vivo ( <i>training curriculum Internal Medicine/Geriatrics</i> )	
<b>DESCRIPTION OF THE RESEARCH ACTIVITIES</b>	
The candidate doctorate projects should aim at unraveling the molecular and cellular determinants of physiological plasticity and model the altered plasticity to study pathophysiological mechanisms of neurological disorders. The proposal may employ transcriptomics, biochemical, electrophysiological and live imaging techniques in integrated cellular models of murine and human origin, to define the role of epigenetic factors, altered intracellular signalling,	





protein-protein interaction and homeostasis, neuro-vascular coupling and hormones in neuronal homeostasis and plasticity and their role in pathology, and animal models of neurodevelopmental and neurodegenerative disorders to study neuronal plasticity and connectivity with in-vivo and ex-vivo electrophysiology, live imaging and behavioral analysis.
<b>SCHOLARSHIP N.4</b>
<b>THEMES</b>
Mood and Psychosis
<b>PROJECT TITLE</b>
Drug discovery, development and delivery for mood and psychotic disorders ( <i>training curriculum Psychiatry</i> )
<b>DESCRIPTION OF THE RESEARCH ACTIVITIES</b>
The candidate doctorate projects should aim at: 1) deep phenotyping of a critical mass of individuals with stage I (at clinical high-risk), II (first episode) or III (early relapsing) mood or psychotic disorders; 2) implementation of a digital Clinical Service Platform for experimental therapeutics, including modules for electronic data capture of harmonized biomarkers and clinical outcomes; 3) development of individualized risk calculators for stages I-III mood and psychotic disorders by stratification of deeply-phenotyped patients with common biomarkers and clinical endpoints, enabling the appropriate pharmacological intervention to be identified, an old treatment to be repurposed, or a new treatment to be tested involving patients.
<b>SCHOLARSHIP N.5</b>
<b>THEMES</b>
Mood and Psychosis
<b>PROJECT TITLEBORSA DI STUDIO</b>
Innovative cellular models for mood and psychotic disorders ( <i>training curriculum Psychiatry</i> )
<b>DESCRIPTION OF THE RESEARCH ACTIVITIES</b>
The candidate doctorate projects should aim at: 1) testing several neuro-glial induction protocols for Multilineage-differentiating stress-enduring (Muse) cells, naturally present in stromal components of the body; 2) investigating neural cell morphology, gene expression and epigenetic regulation; 3) developing in vitro neuro-glial differentiation models; analyzing key molecular pathways relevant to mood and psychotic disorders. The presented projects should encompass the topic of in vitro neuro-glial differentiation modelling to assess pathophysiological mechanisms linked to mood and psychotic disorders, in particular, the analysis of key molecular pathways relevant to mood and psychotic disorders in neuro-glial cells differentiated from Muse stem cells of patients.
<b>SCHOLARSHIP N.6</b>
<b>THEMES</b>
Mood and Psychosis
<b>PROJECT TITLE</b>
Advanced brain imaging for mood and psychotic disorders ( <i>training curriculum Psychiatry</i> )
<b>DESCRIPTION OF THE RESEARCH ACTIVITIES</b>
The candidate doctorate projects should aim at: 1) generating machine learning risk calculators based on functional magnetic resonance imaging (fMRI) and magnetoencephalography (MEG) data to predict further course in people at clinical high-risk for psychotic or mood disorders; 2) identifying common and distinct pathophysiological features in schizophrenia and bipolar disorder; 3) predicting the differential diagnosis between mood and psychotic disorders through multimodal imaging. The proposed projects should encompass one of the following topics: 1) collecting resting-state fMRI, task-related fMRI and MEG data and using machine learning to predict – in individuals at-risk for psychotic or mood disorders – the level of symptom severity and cognitive functioning; 2) using neuroimaging genetic results for the identification of shared and distinct neurobiological signatures in patients with a diagnosis of



schizophrenia or bipolar disorder, along with their clinical correlates; 3) using unsupervised machine learning algorithms to derive latent components from multiple fMRI and MEG data sources for the differential diagnosis between mood and psychotic disorders.

#### SCHOLARSHIP N.7

#### THEMES

Mood and Psychosis

#### PROJECT TITLE

Pharmacogenetics for precision medicine in mood and psychotic disorders (*training curriculum Psychiatry*)

#### DESCRIPTION OF THE RESEARCH ACTIVITIES

The candidate doctorate projects should aim at: 1) identifying the genetic component of treatment resistance (TR) across mood and psychotic disorders; 2) combining genetic markers with information obtained through digital phenotyping to develop models predicting TR; 3) validating the predictive models and demonstrating early identification of individuals at risk for TR. The proposed projects should encompass one of the following topics: 1) identification of genetic variants associated with TR transdiagnostically in patients with mood or psychotic disorders; 2) innovative approaches to improve the variance explained in TR, including methods for polygenic risk scores (PRS) estimation enriched with information on the functional role of variants for prioritization/weighting; 3) combination of genetic markers with clinical, lifestyle and tracking information to predict TR using machine learning; 4) designing of randomized controlled trials to validate the predictors of TR identified through machine learning using deep phenotyping and genetic markers.

#### The procedures for carrying out the admission exams

- **Evaluation of qualifications**, including the compulsory submission of a research project according to the competition information;
- **Interview** that will be carried out according to the procedures indicated in art. 5 of the competition;
- **Foreign language** which will be verified during the interview: English.

#### Location and calendar of the competition

Consult the following web page of the Department from **January 23, 2023**

<https://www.salutementaleefisica.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-mediche-cliniche-e-sperimentali>

#### Other useful information

For any useful information, please consult the University website at the following link <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca> and the Department website <https://www.salutementaleefisica.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-mediche-cliniche-e-sperimentali>

#### Useful Contacts

<b>Didactic/scientific referent:</b>	Prof. Armida MUCCI - email: <a href="mailto:armida.mucci@unicampania.it">armida.mucci@unicampania.it</a>
<b>Administration referent:</b>	Dr. Carmela MADDALONI - email: <a href="mailto:carmela.maddaloni@unicampania.it">carmela.maddaloni@unicampania.it</a>



<b>Attachment n. 04</b>	
<b>ADDITIONAL PHD SCHOLARSHIPS - Funded by NextGenerationEU under the National Recovery and Resilience Plan (PNRR) Mission 4 "Education and research", Component 2 "From Research to Enterprise"</b>	
<b>INFORMATION SHEET OF THE PHD COURSE IN BIOMOLECULAR SCIENCES - XXXVIII Cycle</b>	
Coordinator	Prof. Angela CHAMBERY email: <a href="mailto:angela.chambery@unicampania.it">angela.chambery@unicampania.it</a>
Administrative headquarters of the Course	Department of <i>Environmental, Biological and Pharmaceutical Sciences and Technologies</i>
PhD school: Director:	LIFE SCIENCES Prof. Katherine ESPOSITO
Duration	3 years
Scientific areas/Subject matters:	MED/08 - MED/03 - BIO/18 - BIO/10 - BIO/06 - CHIM/08 - M-EDF/01 - CHIM/03 - CHIM/06 - BIO/09 - BIO/11 - BIO/12.
<b>TOTAL ADDITIONAL PHD SCHOLARSHIPS</b>	<b>N. 2</b>
<b>SCHOLARSHIP N.1</b>	
<b>THEMES</b>	
Neuronal plasticity and connectivity	
<b>PROJECT TITLE</b>	
Molecular and cellular mechanisms of neuronal communication & plasticity in vitro and in vivo	
<b>DESCRIPTION OF THE RESEARCH ACTIVITIES</b>	
The candidate doctorate projects should aim at unraveling the molecular and cellular determinants of physiological plasticity and model the altered plasticity to study pathophysiological mechanisms of neurological disorders. The proposal may employ transcriptomics, biochemical, electrophysiological and live imaging techniques in integrated cellular models of murine and human origin, to define the role of epigenetic factors, altered intracellular signalling, protein-protein interaction and homeostasis, neuro-vascular coupling and hormones in neuronal homeostasis and plasticity and their role in pathology, and animal models of neurodevelopmental and neurodegenerative disorders to study neuronal plasticity and connectivity with in-vivo and ex-vivo electrophysiology, live imaging and behavioral analysis.	
<b>SCHOLARSHIP N.2</b>	
<b>THEMES</b>	
Mood and Psychosis	
<b>PROJECT TITLE</b>	
Looking for genetic variants as risk factors for mood and psychotic disorders	
<b>DESCRIPTION OF THE RESEARCH ACTIVITIES</b>	
The candidate doctorate projects should aim at: 1) applying the specific background in the field of rare diseases to mood and psychotic disorders; 2) evaluating how different classes of genomic variants, from single nucleotide variants (SNVs) to copy number variants (CNVs), can contribute to the risk for mood and psychotic disorders; 3) correlating genetic data with specific phenotypes. The proposed projects should encompass one of the following topics: 1) whole exome sequencing (WES) in large cohort of patients with mood or psychotic disorders and controls to evaluate the contribution of different classes of genomic variants as risk factors of the diseases and identification of single nucleotide variants (SNVs), copy number variants (CNVs) and more complex structural variants (SVs); 2) integration of genetic data with clinical features and endophenotypes observed in patients with mood or psychotic disorders.	
<b>The procedures for carrying out the admission exams</b>	
- <b>Evaluation of qualifications</b> , including the compulsory submission of a research project according to the competition	

information;

- **Interview** that will be carried out according to the procedures indicated in art. 5 of the competition;
- **Foreign language** which will be verified during the interview: English.

#### ***Location and calendar of the competition***

Consult the following web page of the Department from **January 23, 2023**

<https://www.distabif.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-biomolecolari>

#### ***Other useful information***

For any useful information, please consult the University website at the following link <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca> and the Department website <https://www.distabif.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-biomolecolari>

#### ***Useful Contacts***

<b>Didactic/scientific referent:</b>	Prof. Angela CHAMBERY- email: <a href="mailto:angela.chambery@unicampania.it">angela.chambery@unicampania.it</a>
<b>Administration referent:</b>	Dr. Silvana ESPOSITO - email: <a href="mailto:silvana.esposito@unicampania.it">silvana.esposito@unicampania.it</a>



<b>Attachment n. 05</b>	
<b>ADDITIONAL PHD SCHOLARSHIPS - Funded by NextGenerationEU under the National Recovery and Resilience Plan (PNRR) Mission 4 "Education and research", Component 2 "From Research to Enterprise"</b>	
<b>INFORMATION SHEET OF THE PHD COURSE IN MIND SCIENCES - XXXVIII Cycle</b>	
Coordinator	Prof. Gabriella SANTANGELO email: <a href="mailto:gabriella.santangelo@unicampania.it">gabriella.santangelo@unicampania.it</a>
Administrative headquarters of the Course	Department of <i>Psychology</i>
PhD school: Director:	HUMANITIES AND SOCIAL SCIENCES Prof. Domenico AMIRANTE
Duration	3 years
Scientific areas/Subject matters:	M-PSI/01 - M-PSI /02 - M-PSI /03 - M-PSI/04 - M-PSI/05 - M-PSI/06 - M-PSI/08 - INF/01 – L-LIN/12 - M-PED/01 -SPS/11
<b>TOTAL ADDITIONAL PHD SCHOLARSHIPS</b>	<b>N. 1</b>
<b>SCHOLARSHIP N.1</b>	
<b>THEMES</b>	
Neuronal plasticity and connectivity	
<b>PROJECT TITLE</b>	
Integrated technologies for brain connectomics	
<b>DESCRIPTION OF THE RESEARCH ACTIVITIES</b>	
The candidate doctorate projects should aim at contributing to the integration of multi-modal imaging technologies for brain connectomics into medically interpretable AI models and to the development of connectivity-based machine learning algorithms in order to address neuronal plasticity in health and disease for the design of personalized treatments. The proposal should possibly encompass the topic of brain connectivity addressing the role of brain areas and networks in mediating cognition, as well as their plastic changes, using neuropsychological evaluation in healthy human subjects and patients with different neurological disorders.	
<b>The procedures for carrying out the admission exams</b>	
<ul style="list-style-type: none"> <li>- <b>Evaluation of qualifications</b>, including the compulsory submission of a research project according to the competition information;</li> <li>- <b>Interview</b> that will be carried out according to the procedures indicated in art. 5 of the competition;</li> <li>- <b>Foreign language</b> which will be verified during the interview: English.</li> </ul>	
<b>Location and calendar of the competition</b>	
Consult the following web page of the Department from <b>January 23, 2023</b> <a href="https://www.psicologia.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-della-mente">https://www.psicologia.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-della-mente</a>	
<b>Other useful information</b>	
For any useful information, please consult the University website at the following link <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> and the Department website <a href="https://www.psicologia.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-della-mente">https://www.psicologia.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-della-mente</a>	
<b>Useful Contacts</b>	
<b>Didactic/scientific referent:</b>	Prof. Gabriella SANTANGELO email: <a href="mailto:gabriella.santangelo@unicampania.it">gabriella.santangelo@unicampania.it</a>
<b>Administration referent:</b>	Dr. Luciana MAINOLFI - email: <a href="mailto:luciana.mainolfi@unicampania.it">luciana.mainolfi@unicampania.it</a>