



UNIONE EUROPEA
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NOTICE OF PUBLIC SELECTION FOR THE ADMISSION TO THE PH. D. PROGRAMMES WITH ADMINISTRATIVE SEAT AT THE UNIVERSITÀ DEGLI STUDI MAGNA GRÆCIA DI CATANZARO A.Y. 2020/21

PLEASE NOTE: THE OFFICIAL VERSION OF THIS CALL IS IN ITALIAN AND IS AVAILABLE ON THE MAGNA GRÆCIA UNIVERSITY WEBSITE

THIS TRANSLATION CANNOT BE USED FOR LEGAL PURPOSES AND IS ONLY MEANT TO PROVIDE INFORMATION IN ENGLISH ON THE CALL FOR APPLICATIONS

THE DEAN DECLARES

Art. 1 – Accreditation

The following three-year-long Ph. D. programmes have been planned by the Catanzaro *Magna Graecia* University for academic year 2020/21 (XXXVI cycle):

BIOMARKERS OF CHRONIC AND COMPLEX DEASESES

Curricula:

- Analysis of imaging data, neurophysiological biosignals and molecular profiling for the identification of biomarkers applied to Neurosciences
- New biomedical technologies for identifying dysmetabolic and nutritional disease markers
- Molecular and physiopathological aspects of chronic-degenerative and inflammatory diseases
- Chronic cardio-pulmonary diseases and biotechnological and engineering solutions for regenerative medicine
- Methods and techniques of computer engineering for processing, management and for efficient analysis data

MOLECULAR AND TRANSLATIONAL ONCOLOGY AND INNOVATIVE MEDICAL-SURGICAL TECHNOLOGIES

Curricula:

- Molecular oncology
- Biomedical engineering, systems and nanotechnologies applied to oncology
- Medical and translational oncology
- Innovative technologies and therapies in urological and gynecological surgery and fertility preservation



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LIFE SCIENCES

Curricula:

- Pharmaceutical Sciences
- Toxicology and food sciences
- Biotechnological and veterinary sciences
- Medical Sciences and Public Health

EUROPEAN LEGAL AND ECONOMIC SYSTEMS

Curricula:

- *Theory and history of law:* sociality and public sphere supranational
- Laws, protections, markets: negotiating autonomies and business disciplines
- Companies, institutions and markets in the European Union
- Migration, European health systems and protection of fundamental rights – MISED

Art. 2 – Public Selection Announcement

We hereby announce the public selection, through competitive examinations, for admission to the 2020/21 Ph.D. programmes listed in the above art. 1 of the present Call for Applications.

For each of the Ph.D. programmes, **Annex A – Details of A.Y. 2020/21 Ph.D. Programmes, integral part of the present call for applications**, outlines the scientific-disciplinary sectors and the academic fields, educational objectives, proposed *curricula*, duration, name of the Coordinator and his e-mail, degrees required for admission, number of positions and scholarships offered, project details, date and venue of the qualifying examinations, dates of results publication for qualifications evaluation and foreign language requirement.

Candidates who have graduated from foreign universities can request to participate in reserved positions by submitting a specific request when completing the application form with the online procedure referred to in the following art. 4. If the reserved positions in Annex A are not assigned due to lack of suitable candidates, these positions will be made available for the admission procedures for ordinary positions.

The number of positions, listed in Annex A, may be increased if additional scholarships financed by PON-R&I/PSRI are made available (MUR Director's Decrees n.1233/2020). The holders of the above scholarships are subject to compliance with any requirements and the obligations imposed by the funding Institution under the MIUR decree n.1233/2020 and handbook "Implementation discipline Innovative doctorates with industrial characterization".

The aforementioned additional PON R&I/PSRI grants will be assigned to candidates placed in the general ranking, according to the order of merit, starting from the first in the ranking, after evaluating the scientific relevance of the candidates in accordance with the research projects approved by the MUR.



UNIONE EUROPEA
Fondo Sociale Europeo



The present Call for Applications acts as official notification. Amendments, updates or additions will be published **exclusively on the website of the University at the address <http://web.unicz.it/it/category/dottorati-di-ricerca>** .

Candidates must present, under penalty of exclusion, a research project that must be inherent to the topics related to the educational objectives described for each course in Annex A of this announcement, with reference to the chosen curriculum. The project must be drafted according to the details indicated for each PhD course in the aforementioned Annex A; the research project can be presented in English or in Italian. **The research project developed by the candidate does not oblige the Ph.D. Teaching Body on the subsequent assignment of the Doctoral thesis.**

For all further information, details and obligations on the PON R & I / PSRI grants, see the Italian version of the announcement.

Art. 3 – Admission requirements

Anybody possessing a “laurea magistrale” belonging to one of the degree classes indicated in the respective programme profile, that is a degree obtained under regulations prior to Italian D.M. 509/1999, approved with D.I. 9 July 2009, or any suitable foreign degree, **as well as those who will obtain at an Italian University the required qualifications for admission by no later than 31 October 2020** (failure to do so will result in exclusion from the selection process), may apply to take part in the selection process for admission to the Ph.D. programmes listed in **Annex A – Details of A.Y. 2020/21 Ph.D. programmes**, without age or citizenship limits.

Foreign qualification suitability will be established by the Ph.D. committee following the guidelines and current regulations in Italy and in the qualification issuing country, as well as of treaties or international agreements on qualification recognition for further study and will have to be confirmed by the Academic Senate.

In the case of a qualification obtained abroad, candidates must attach to their application any document which might be relevant to the assessment, translated and certified by the relevant Italian bodies in the country of origin, and following current regulations for the admission of foreign students to Italian University post-graduate programmes.

In the case of qualifications obtained in non-EU countries, candidates may submit, in place of the documents indicated above, a Certificate of comparability of the foreign qualification issued by CIMEA. The certificate of comparability can be found at the following link: <http://cis.cimea.it/estero/> ; **It remains understood that the candidate who will win must submit the documentation referred to in the previous paragraph.**

Anyone expected to obtain their Italian degree in the period between application and the **31 October 2020 will be admitted conditionally and will be expected to present to Area Affari Generali, University Magna Graecia of Catanzaro, within five (5) days from the obtainment of the qualification, and in any case and no later than 5 November 2020 a statement *in lieu* of the certificate**, containing the name of the qualification issuing University, the date of obtainment, the type of diploma (*vecchio ordinamento, specialistica/ magistrale*) and relative marks, accompanied by a valid piece of ID, exclusively **via email** at affarigenerali1@unicz.it or affarigenerali@cert.unicz.it. Failure to do so will result in their exclusion.



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Art. 4 – Applications procedures

Candidates may apply for more than one Ph.D. programme but they may choose only one curriculum for each programme. Failure to do so will result in their exclusion.

Candidates wishing to apply for more than one Ph.D. programme must present separate applications, **one for each Ph.D. programme they are applying for.**

In case of application to more than one Ph.D. programme, it is necessary to **declare in each application the order of priority of the Ph.D. programmes applied for; such order must be identical in each of the application forms; failure to comply will result in exclusion.**

Should the candidate result suitable for more than one Ph.D. programme, the order of priority expressed in their application will, through declaration *in lieu of affidavit*, be considered a binding criterion for programme admission.

Applications for participation in the competitive selection examination **must be sent both in online application and via e-mail/PEC or paper format** (a print-out of the online application) **to the following addresses:**

- **online application** by logging on the University website: <https://unicz.esse3.cineca.it/Home.do> , which will be available from the day following the publication of the present call for applications.

The procedure involves an initial registration, after which you print the memo containing username and password for login to the Web portal.

However username and password will also be sent via email from the email address "helpesse3@unicz.it".

N.B. It is required to indicate a valid email address in order to recover the credentials in the system Esse3 and for any communications.

For online application is available a Short Guide for admission to PhD announcement a.y. 2020/21 on the website at the following address <http://web.unicz.it/it/category/dottorati-di-ricerca> .

N.B. When you finish filling out the online procedure and click on "COMPLETA AMMISSIONE AL CONCORSO" the application can not be modified, and you can not cancel the process .

When completing the online application, it is necessary to declare the order of priority of the courses in which you intend to participate. This order must be identical in each of the submitted applications (for those who submit a single application form: the only choice made appears in the printing of the application).

Candidates with qualifications obtained abroad who intend to participate in reserved positions must choose this option when completing the online application and must attach the relevant request in pdf format, duly signed, in the appropriate section. The facsimile of the request is available at <https://web.unicz.it/it/category/bandi-ateneo> .

Please note that for any technical problem, while filling the online application form, you can send a ticket: <http://www.asi.unicz.it/helpdesk/> .

Online applications will automatically close **at 12:00 (Italian time)** on the **deadline date (October 12th 2020)** of the present call for applications.



UNIONE EUROPEA
Fondo Sociale Europeo



The closing date is peremptory and it is responsibility of the candidate to check the correct conclusion and sending off of the online application.

Candidates are strongly advised not to wait until the last few days for application. The University declines any responsibility due to technical problems, overload, or other, in its application and communication systems which may cause a delay in applications.

- **in paper/ PEC or e-mail (only for candidates for reserved positions)** a print-out of the online application, must be delivered by registered post with notification of receipt, **within and no later than the deadline of the present call for applications**, to the following address: Magnifico Rettore - Università degli Studi Magna Græcia di Catanzaro – Ufficio Protocollo, Edificio Direzionale, Campus universitario, Viale Europa, Loc. Germaneto - 88100 Catanzaro.

Applications must be received within 12 October 2020.

a- sent by PEC (certified mail) or e-mail protocollo@cert.unicz.it :

The application must be sent exclusively by certified e-mail personal users (institutional PECs accredited to public bodies are not allowed); Therefore, applications sent by simple / ordinary e-mail address or sent by non-personal certified e-mail or institutional certified e-mail will be excluded, except for candidates residing abroad who compete for positions reserved for foreign graduates who can send the application by ordinary e-mail.

The PEC for participation in the competition notice must include: Domanda di partecipazione Dottorato 36 _____ Subject: **“Domanda di partecipazione selezione Dottorato 36 _____ (name of Ph.D. programme shortly for which one is applying and the sender e.g. Biomarcatori, Oncologia, etc.)” – Area Affari Generali.**

The application form (printed exclusively from the online compilation procedure) must be signed by the candidate and scanned in PDF format with the relative attachments.

A compressed folder must also be attached (zip file no larger than 40 megabytes) which must contain all the documentation listed below:

- 1) **the application form duly signed**
- 2) **a copy of both sides (front and back) of a valid piece of ID;**
- 3) **a payment receipt for the non-refundable fee of € 50 made by PagoPA payment”;**
- 4) - the **research project** that must be inherent to the topics related to the educational objectives described for each course in Annex A of this announcement, with reference to the chosen curriculum. The project must be drafted according to the details indicated for each PhD course in the aforementioned Annex A;
- 5) - **curriculum vitae et studiorum** (the format of which must be the same as the *facsimile* available online <http://web.unicz.it/it/category/dottorati-di-ricerca>),
- 6) - the **declaration of certification exams** containing the indication of the grade, the date ;
- 7) - the **publications**, relating to the topics of the Doctorate including the degree thesis;
- 8) - any **qualifications** relating to the topics of the Doctorate;
- 9) - eventually, **“Request to participate for reserved positions for candidates with qualifications obtained abroad”;**



UNIONE EUROPEA
Fondo Sociale Europeo



- 10) - a list of all documents provided,
- 11) - eventually, “Richiesta di svolgere il colloquio in via telematica” (see article 6 below);

b-sent by registered post with notification of receipt, within and no later than the above stated deadline.

In accordance with article 2 of D.P.R. n. 1077/70, the stamp and date of the post office will be proof of conveyance. In any case, and even where sent on time, applications which for whatever reason will arrive later than 7 (seven) days after the deadline will not be considered.

No complaints are accepted for late applications. Applications sent by priority post will not be accepted.

Application delivery is at the exclusive risk of the sender, should the application, for whatever reason, not get to destination in time.

After filling out the online application form for selection must be printed, signed and **included** in an envelope.

The envelope will have to clearly state the following:

The sender: candidate’s name, surname, address ;

Subject: “**Domanda di partecipazione selezione Dottorato 36 _____ (name of Ph.D. programme shortly for which one is applying and the sender e.g. Biomarcatori, Oncologia, etc.)**”;

Address: Magnifico Rettore – Università degli Studi Magna Græcia di Catanzaro – Ufficio Protocollo, Edificio Direzionale, Campus universitario, Viale Europa, Loc. Germaneto – 88100 Catanzaro.

AOO: Area Affari Generali - NON APRIRE.

Inside the above-mentioned envelope must be included:

- 1) **the application form duly signed**
- 2) **a copy of both sides (front and back) of a valid piece of ID;**
- 3) **a payment receipt for the non-refundable fee of € 50 made by PagoPA payment”;**
- 4) - eventually, “Request to participate for reserved positions for candidates with qualifications obtained abroad”;
- 5) - eventually, “Richiesta di svolgere il colloquio in via telematica” (see article 6 below);
- 6) **a sealed envelope named PROGETTO E TITOLI- SURNAME CANDIDATE** containing:
 - the **research project** that must be inherent to the topics related to the educational objectives described for each course in Annex A of this announcement, with reference to the chosen curriculum. The project must be drafted according to the details indicated for each PhD course in the aforementioned Annex A;
 - **curriculum vitae et studiorum** (the format of which must be the same as the *facsimile* available online <http://web.unicz.it/it/category/dottorati-di-ricerca>),
 - the **declaration of certification exams** containing the indication of the grade, the date ;
 - the publications, relating to the topics of the Doctorate including the degree thesis;
 - any qualifications relating to the topics of the Doctorate;
 - a list of all documents provided,



UNIONE EUROPEA
Fondo Sociale Europeo



Inside the above-mentioned envelope must be included also compulsorily a CD, pen drive, etc. containing, in digital format, the same application form, as well as all the attachments presented for the purposes of the evaluation. This digital documentation will allow the exam in video conference.

Applicants are also advised to name the files with a meaningful name: eg. application form, degree certificate / self-certification, research contracts, c.v., publications, etc

In their application form, candidates must state clearly and truthfully, under their own responsibility:

- their personal details, date and place of birth, tax payer number, citizenship, home and contact addresses;
- the exact title of the Ph.D. programme applied for and the chosen *curriculum*;
- the degree possessed, stating the result, date and issuing University, or the academic qualification obtained from a foreign University, or for those in the process of finishing their degree, a statement declaring the candidate's commitment to providing the declaration in lieu of degree certificate by the 31.10.2020;
- that they undertake the Ph.D. on a full-time basis, without prejudice to art. 12, c.1, of D.M. 45/2013;
- that they commit to informing the University in a timely manner of any changes to their home or contact address;
- that they have read and accepted all clauses of the call for applications, and in particular that they are aware that the selection procedures will follow the calendar set out in **Annex A, which acts as official convocation for the exams themselves without further notice, and that any changes to such calendar will be communicated exclusively through publication on the University website <http://web.unicz.it/it/category/dottorati-di-ricerca>**;
- **the order of priority** in case of useful placement for several programmes; in case of application for more than one Ph.D. Programme, **it is necessary to declare in the online application the order of priority for the chosen programmes; the order must be identical in each of the application forms received, should it not be so the candidate will be excluded;**

For those with a single application form: in the printing of the application appears the only choice you make

- that they are aware that the scholarships cannot be cumulated with research grants or other scholarship of any kind, except those granted by national or foreign institutions aiming at integrating the educational and research activity of the scholarship holder with trips and stays abroad;
- that they are aware of and consent to treatment of the personal data provided in the application exclusively for purposes of the selection process and future relations with the University, in accordance with D.lgs. n. 196/2003.

In accordance with law 5/2/1992 n.104, disabled candidates or applicants with learning disabilities must explicitly state their special requirements and whether, given their handicap, they will require extra time to complete the selection exams.

Failure to present both forms (online application and by registered post/PEC or e-mail) will result in the exclusion of the candidate from the selection process.



UNIONE EUROPEA
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Any alternative form of application is excluded.

Application forms will be automatically excluded **which:**

- a. even if correctly completed online, are not received on time by certified e-mail except only for candidates residing abroad who compete for positions reserved for foreign graduates who can send the application by ordinary e-mail;
- b. even if correctly completed online, are not delivered on time by registered post;
- c. even if received or delivered by registered post or PEC/e-mail, are not completed online;
- d. are sent not following the above mentioned guidelines;
- e. are sent or delivered after the deadline established by the present call for applications or, even if sent on time, are delivered to the University later than 7 (seven) days from the deadline;
- f. sent by certified e-mail after the expiry date of this announcement
- g. do not bear the original signature of the candidate (by registered post or PEC/e-mail);
- h. do not contain the back/front photocopy of a valid piece of ID (by registered post or PEC/e-mail);
- i. are missing the payment of €50.00 for the selection process participation fees made by Pago PA payment ”;
- j. each envelope /PEC/e-mail may contain only one application form for one Ph.D. Programme. In case of more than one application in the same envelope, all applications contained in one envelope will be automatically excluded;
- k. applications by the same candidate for the same Ph.D. Programme but with different *curricula* will be automatically excluded;
- l. in case of application to more than one Ph.D. Programme, applications containing a different order of priority in each application will be automatically excluded;
- m. sent by certified e-mail from a simple / ordinary e-mail address, sent by non-personal PEC, sent by institutional PEC, except only for candidates residing abroad who compete for positions reserved for foreign graduates who can send the application by ordinary e-mail.

Following formal checks on the application received along the above stated guidelines, the list of candidates admitted to the selection process will be published, before results evaluation publication dates, on the University website at <http://web.unicz.it/it/category/dottorati-di-ricerca> . The University will provide no other form of notification.

Candidates will be expected to give proof of Public Administration-issued qualifications by means of a declaration in lieu of certification (or self-certification) as set out by art. 46 of D.P.R.445/2000 and subsequent amendments. **All self-certifications must contain the date and authentic signature.**

The same procedures should also be followed by:

- EU citizens;
- citizens of non-EU states who are settled in Italy, limited to the verifiability of status, personal qualities and achievements from Italian public bodies (for example, if they obtained a degree from an Italian University).

Non EU candidates who have studied abroad must attach the original certificates and their relative translations (see art. 3 above). Such candidates will be admitted to selection conditionally, and will be



UNIONE EUROPEA
Fondo Sociale Europeo



excluded from the Ph.D. programme should it emerge, upon verification, that the title held does not correspond to the requisites listed by the present call for applications and therefore does not allow for enrolment in the Ph.D. programme.

Candidates must attach the adequate declaration in lieu of affidavit, in accordance with art. 47 of D.P.R. 445/2000 and subsequent amendments, in which they certify compliance to the original of the publications presented. Further, candidates must declare under their own responsibility and in accordance with D.P.R. n. 445/2000 the truthfulness of the data and information in the *curriculum vitae et studiorum*.

It is necessary to specify, for all qualifications and all information included in the *curriculum vitae et studiorum*, all elements which may aid the process of verification by the Administration (e.g. *Start/end date, institution/company, duration of grant/contract, marks, position filled, etc.*)

All candidates are admitted to selection upon condition of verification that they fulfil the requisites set out by the call for applications.

For reasons linked to organisation of workload and timeliness, effectiveness, and efficiency of administrative action, the Administration will only carry out checks on those applicants who will have taken and passed the admission tests.

The University may, at any time during the process and following the start of the Ph.D. programme, carry out checks on the truthfulness of the information provided, in accordance with law DPR n. 445/2000 and its subsequent amendments.

Should motives for exclusion be determined after the start of the programmes, the University may arrange, through a provision justified by the Dean, for the exclusion of the candidate from the selection process or the Ph.D. programme and the revoking of any related benefits, with no prejudice to the penal responsibilities for falsification of documents and false/untrue/fraudulent statement as set out in art. 76 DPR 445/2000, as may apply.

Art. 5 - Judging Committees

The Judging Committee is appointed with an ordinance issued by the dean upon consultation with the coordinator of the Ph.D. programme; it is composed of the coordinator himself, President of the Committee, and the *curricula* coordinators, always guaranteeing an odd number of components through the appointment, where necessary, of an extra component taken from the teaching body. The same ordinance appoints also substitute components taken from the teaching body.

The composition of each commission will be published, after the call for applications deadline, on the website of the University at <http://web.unicz.it/it/category/dottorati-di-ricerca>.

Art. 6 – Selection Process

Admission to the Ph.D. programme will be granted on the basis of a selection process testing the candidate's knowledge and aptitude for scientific research.



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For all candidates the selection process consists of evaluation of the qualifications, evaluation of a research project prepared by the candidate and in an interview that will focus on the discussion of the proposed research project and the scientific experiences.

50 points are reserved for the evaluation of the qualifications and of the project:

The project can be awarded a maximum score of 25 points.

Titles can be assigned a maximum score of 25 points:

max 10 for the Curriculum Vitae (CV) with attached Master's Degree certificate (or equivalent) with analytical indication of the exams taken and relative grades; for undergraduates it is sufficient to certify the exams taken and the relative marks;

max 10 points for publications related to the themes of the Doctorate, including the thesis;

max 5 points for postgraduate courses, research scholarships related to the PhD themes.

Typescripts and forthcoming papers which have not already been accepted for publication will not be considered.

For admission to the interview, the candidate is considered suitable with a score of no less than 30/50 (sum of the points relating to the evaluation of the qualifications and of the research project).

50 points are reserved to the interview. The minimum score for passing the interview is 30/50.

During the interview will be tested knowledge of English. The candidate can decide whether to take the interview in English or in Italian.

Exam dates for each of the programmes are listed in Annex A; this will be the only notification. In accordance with art. 4, successful applicants will be expected to attend the examinations at the venues, dates and times indicated below.

Changes to the calendar will be communicated only on the University website at the following address <http://web.unicz.it/it/category/dottorati-di-ricerca>.

Results of the qualifications evaluation and of research project will be published by the Judging Committee, by the date indicated for each programme in Annex A on the University website <http://web.unicz.it/it/category/dottorati-di-ricerca>.

Published evaluation of the qualifications and the research project scores will constitute, for those with a score of no less than 30/50, notice of convocation to interview, with no further notification from the University.

Candidates admitted following the formal verification of applications pursuant to Article 4 above and who have achieved a score of no less than 30/50, following the evaluation of qualifications and the project, are required to present themselves or log in online on the day and at the time indicated in Annex A for the interview. Hours may be subject to increasing variations.

For admission to exams candidates must have a valid piece of ID.

The interview with the candidates will take place in the following ways:

- a) The Judging Committee will be physically present in the classroom on the day indicated for each PhD course



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- b) Preliminarily, interviews with candidates for face-to-face interviews in alphabetical order. Only at the end of the aforementioned interviews will the examinations be carried out on the same day, always in alphabetical order, if time permits; otherwise, the Committee will notify candidates the new date for video conference interviews
- c) Candidates who decide to take the interview in videoconference due to difficulties in reaching the Campus, health precautions or particular states of fragility, must communicate, giving reasons, within 48 working hours from the day on which the interview is scheduled (for example, if the exam is scheduled for Monday, the communication must be received no later than the previous Thursday) at the address affarigenerali@cert.unicz.it and at the address of the Course Coordinator indicated in the Annex A for each course. A copy of a valid identity document must be attached to the request.

Candidates who have chosen to participate in reserved position for holders of foreign qualifications will carry out the interview in videoconference. The interviews will be carried out via Meet Gmail platform on the date established for each course in Annex A unless the Committee notifies candidates a new date. In any case, the publicity of the interviews must be guaranteed.

Candidates who will carry out the interview in video conference are required to log in on the day and at the time indicated in Annex A to conduct the interview on the Meet Gmail platform. The Committee, on the established day and time, will communicate via e-mail to candidates the link to connect. Clicking on the link, the name of the candidate will appear on the screen of the Committee that will be able to see and hear it. The Committee will ask to identify the student by asking him to bring the valid identity document to the camera. The Committee can mute the microphone of all candidates; in this way the other candidates can listen (both the Committee and the candidate questioned), effectively making the exam public. At the end of the interview the Committee will silence the microphone of the interviewed candidate and will ask the next candidate to reactivate his / her microphone (the microphone cannot be reactivated directly by the Committee).

The candidate must be available on the account indicated in the application form on the day scheduled for the interview, according to the calendar in Annex A. The Committee can agree with the candidate a specific time for the beginning of the interview. The Committee has the right to ask the candidate, before starting the interview, to frame the room and frame the table, on which there must be nothing outside the computer (it is not possible to keep books and notes, unless authorized by Committee).

Candidates who have not indicated a valid e-mail address for the electronic connection, who are unavailable on the day or at the established time, who do not exhibit a valid identity document or if the connection does not work, are excluded from the competition. These causes for exclusion do not apply if the candidate, with a valid identification document, physically presents himself on the day set for the interview to take the oral exam.

The University of Magna Græcia of Catanzaro is not responsible in the event that technical problems prevent the regular interview. Please note that the University of Magna Græcia of Catanzaro does not provide technical assistance to candidates in any way and that it is the responsibility of the participants to verify both the functionality of their connection and whether the device used is suitable and functional for the connection.



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In dependence on emergency from COVID-19 the interviews could be carried out exclusively in video conferenza even with all candidates for ordinary positions; Should it be necessary to adopt this method as a measure of containment and management of the emergency and in the event of any calendar update, no personal communication will be given to candidates. **Therefore, candidates are responsible for checking for any updates on the University website at <https://web.unicz.it/it/category/dottorati-di-ricerca> even in the vicinity of the scheduled dates.**

Changes to results publication dates for qualification and interview will be communicated only through the University website at <http://web.unicz.it/it/category/dottorati-di-ricerca> .

The committee will produce a written report with the minutes for each of the meetings. At the end of each interviewing session the Committee lists the interviewed candidates and establishes their scores. The list, undersigned by the Committee President and Secretary, is posted on the same day as the interviews. At completion of all examinations, the Committee produces a general list, in descending order, summing the scores obtained by candidates in the single examinations and the score obtained from the qualifications and research project evaluation.

The general list of merit will be published on the website of the University at <http://web.unicz.it/it/category/dottorati-di-ricerca> .

The President of the Judging Committee promptly forwards the reports to the Dean who within 15 days approves by ordinance the proceedings of the selection process or rejects them where further regularisation is deemed appropriate.

From the day following the date of publication of the said official approval of the selection proceedings, on the website <http://web.unicz.it/it/category/dottorati-di-ricerca> , shall take effect, on pain of forfeiture, the terms of submission of the application registration referred to in art. 8 of this notice.

Art. 7 – Admission to the programmes

Candidates are admitted to the programmes and granted scholarship following the order of the list of merit until the number of places offered for each programme is filled. For position with grant, in accordance with art. 4 of law 210/1998, in a case of equal positioning in the general merit ranking, an evaluation of the financial situation in accordance with d.P.C.M. 09/04/2001 will prevail. In case of equality in financial assessment, the younger candidate will prevail, in accordance with art. 3, c.7 of law 127/1997, as integrated by art. 2 law 191/1998.

The candidates in the *ex aequo* position are required to submit the ISEE (“ISEE parificato” for candidate residing abroad) request online or at the authorized counters within 3 days of the request for the ISEE form made by the university administration.

For position without grant, the younger candidate will prevail, in accordance with art. 3, c.7 of law 127/1997, as integrated by art. 2 law 191/1998.

Admission to the PhD courses with the relative scholarship will be carried out with a rectoral decree, on the basis of the general merit ranking.

If reserved places are not assigned due to lack of suitable candidates, these positions will be made available for the admission procedures for ordinary positions.



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In case of useful placement for more than one Ph. D. Programme, the order of priority expressed in the application form will act as a binding criterion for admission.

The activation of *curricula* depends on the success of candidates having chosen a certain *curriculum*. This means that only the *curricula* chosen by winning candidates will be activated.

Should the successful candidate, civil servant or public institution employee admitted to the programme renounce their scholarship, in accordance with art. 2 Law 476/1984 and subsequent amendments, included the later art. 10, the next suitable candidate in the list of merit will be admitted to the programme with scholarship.

The start date for the programmes is the **January 2nd 2021**.

Art. 8 – Required action for successful candidates

Successful candidates must fill online, in accordance with informations available on the website <http://web.unicz.it/it/category/dottorati-di-ricerca>, an enrolment form to first year; for this purpose **successful candidates must login** on the website <https://unicz.esse3.cineca.it/Home.do>, choose LOGIN, and then “Segreteria- Immatricolazione /Scelta tipologia corso di studio”. Connect with the same username and password used for the initial registration. If you have lost the username and password, you can send an you can send a ticket: <http://www.asi.unicz.it/helpdesk/>.

N.B. Only registration on line does not perfect the enrolment to first year.

Enrolment form to first year **must be sent in paper format** (a print-out of the online application) with a **payment receipt made by Pago PA payment**.

The following documents must be attached to the Enrolment form:

- a photocopy of a valid piece of ID;
- a photocopy of the taxpayer code (CODICE FISCALE);
- **a payment receipt** of € 506,00 made by PagoPA for payment “Tassa iscrizione e frequenza corso di dottorato di ricerca (including I rata - I anno € 360,00, tax for the right to study PhD programme € 130,00 (acconto) + stamp duty paid virtual system € 16,00”;

Successful candidates must hand deliver, personally or by courier or send by registered post with notification of receipt, the enrolment form to the following address: Magnifico Rettore – Università degli Studi Magna Græcia di Catanzaro – Ufficio Protocollo, Edificio Direzionale, Campus Universitario, Viale Europa, Loc. Germaneto - 88100 Catanzaro. **Failure to do so will result in their exclusion** .

Request of enrolment (with documents attached) must arrive within and no later than 7 (seven) days after the issuing of D.R. approving selection documents and reports on the University website <http://web.unicz.it/it/category/dottorati-di-ricerca> in one of the following ways:

a- sent by PEC (certified mail) or e-mail (only for candidates for reserved positions residing abroad) protocollo@cert.unicz.it :



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b- sent via registered post with notification of receipt by and no later than the above stated date.

In accordance with art. 2 of the D.P.R. n. 1077/70, the post office stamp and date will certify the date of conveyance. In any case, applications which for ever reason are not delivered within 7 (seven) days from the deadline above shall not be considered even where they have been sent in good time.

No complaints are accepted for late applications. No applications sent with priority mail will be accepted.

Should the application not arrive at the destination in good time, for whatever reason, the sole responsibility for the delay lies with the sender.

Should the deadline fall on a bank holiday, it will be extended to the first next working day.

In the enrolment form candidates will have to provide/declare the following, in accordance with articles 46 and 47 of P.D.R. 445/2000 and its subsequent modifications:

- name/surname, date and place of birth, home and contact address for Ph.D. related correspondence;
- nationality and CODICE FISCALE;
- secondary school diploma or for non-Italians, the highest school diploma obtained (original document);
- a degree certificate;
- that they are not currently enrolled in any other university course (I or II cycle degrees, non-medical specialisation school, other Ph.D. programme) or their commitment to giving this up before the start of the courses; or that they are enrolled in the last year of a medical specialisation school at the University of Catanzaro, thereby recognising the University as administrative centre of the school;
- their commitment to exclusive and full time attendance of the Ph.D. course with no prejudice to the provisions of art. 12, ch.1 of D.M. 45/2013;
- that they have not previously benefited from a Ph.D. scholarship;
- that they are not in a situation of accumulation of research grants or scholarships, except for those granted by national or foreign institutions aimed at integrating, with trips or stays abroad, the educational and research activity of the scholarship holders and that they commit to respecting this condition for the duration of their Ph.D.;
- whether they are civil servants or employees of a public law institution, and in this case that they have requested and obtained paid or unpaid time off or special leave for reasons of further study, in accordance with art. 2 law 476/1984 and subsequent amendments, and if they receive payment that they renounce their scholarship;
- that they undertake to inform the University Administration in good time of any changes in any of the above stated conditions;
- that they accept the norms of treatment of personal data.



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Candidates for assignment of the scholarship are also required to attach to the enrollment application the presumptive declaration relating to the total gross personal income. The fac simile is available on the website <https://web.unicz.it/it/category/dottorati-di-ricerca> .

The above conditions are subject to Administration checks in collaboration with the tax and revenue authorities.

Anyone who will not have thus officialised their enrolment will be considered to have renounced their post and the vacant positions will be assigned to the remaining candidates based on the merit list, within two months of the start of the programmes. Candidates selected from the waiting list will be notified via registered post with notification of receipt, with the same procedures as for successful candidates, to the contact address provided in the selection process; candidates will have to proceed to taking the above stated steps for enrolment for successful candidates.

In selecting candidates from the waiting list based on merit after the beginning of the programmes, candidates resulting already enrolled in other Ph.D. programmes will not be considered.

The number of people admitted to the programmes in the two months after their start will correspond exactly to the number of people who renounce their positions.

The University administration will not be responsible for any communication problem dependant on inaccurate or inexact candidate contact details, nor lack or delay in communicating a change, nor for any glitch or problem with the post or communication system which are not imputable to the Administration itself.

Art. 9 – Scholarships

Scholarships are assigned by ordinance of the Dean following the order established by the list of merit and the procedures set out in art. 7 above.

The yearly amount of the scholarship, before taxes, is of € 15.343,28; this is paid in monthly deferred instalments. The amount may be increased by 50% for a period of no longer than 18 months should the Ph.D. candidate be authorised by the Teaching Body to carry out research activities abroad.

For the scholarship, the limit of total gross annual personal income is set at € 15,000.00. The income refers to the year of disbursement of the scholarship.

The determination of this income is made up of income of patrimonial origin, as well as emoluments of any other nature, having a recurring and occasional nature, personal income deriving from work services with the exclusion of the amount of the scholarship or any benefits to support income paid on the basis of the scholarship (maternity allowance).

The PhD student is required to return, even in the event of renunciation of the Course, the installements of the scholarship already received in cases where the aforementioned income limit is exceeded.

The scholarship has a yearly duration and is renewed upon completion by the Ph.D. candidate of the planned activities for the previous year. At the end of each year, candidates present a written report on their research to the Teaching Body. This is accompanied by an explicative report of the supervising professor and discussed by the candidate before the Ph.D. Teaching Body.



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Scholarships cannot be cumulated with research grants or other scholarships, except for those granted by national or foreign bodies aimed at integrating the research activities of the Ph.D. candidate with trips or stays abroad.

The scholarship is subject to the payment of INPS social contributions in accordance with art. 2, c. 26, of law 8 August 1995, n. 335, and subsequent amendments, in the measure of two thirds by the administration and one part by the scholarship holder. The Ph.D. candidates benefit from all relative security and rights.

Anyone who has already benefited from a Ph.D. scholarship even for a year or a fraction of a year will not be able to benefit from one again.

Starting from the second year, to each Ph.D. candidate, excluding the supernumerary student, is assigned a budget, annually established by the Board of Directors within the existing financial resources of the University, for research activity in Italy and abroad.

As regards tax, art. 4 Law 13 August 1984 n. 476 apply to the scholarships for Ph.D. programme attendance.

For all further information, details and obligations on the PON R & I / PSRI grants, see the Italian version of the announcement, article 9.

Art. 10 – Ph.D. students Rights and Duties

Admission to the Ph.D. programme involves exclusive and full time commitment, without prejudice to the possibility of a specific discipline as established by art. 7 and 12, comma 4, of D.M. 45/2013.

The Ph.D. students, as integral part of the educational project and provided that they have the *nulla osta* of the Teaching Body without this involving an increase in scholarship, may carry out tutoring activities for undergraduate students, as well as supplementary didactic activities, in any case not exceeding a maximum of forty hours per academic year. After the third year of Ph.D. the limit is revoked. Medical field Ph.D. students may participate in clinical activities.

Civil servants admitted to the Ph.D. programme benefit for the duration of the programme of the time off work as provided for by collective bargaining or, for employees in the public sector, of special leave for reasons of study, as compatible with the needs of the administration they belong to, in accordance with art. 2 of Law 13 August 1984 n. 476 and subsequent amendments, with or without pay and except in case of explicit renunciation, only if they are enrolled in a Ph.D. programme for the first time, and notwithstanding the disciplinary ambit.

The provisions of legislative decree 29 March 2012 n.68 are extended to Ph.D. students, within the modalities herein established.

Female Ph.D. students benefit from the maternity provisions of the Ministero del Lavoro e Previdenza Sociale decree 12 July 2007, published in the Gazzetta Ufficiale della Repubblica Italiana n. 247 on 23 October 2007.

Ph.D. students may carry out training or study periods at Italian or foreign universities and research centres. All Ph.D. students are required carry out a period of no less than over the three-year period, a research period abroad of no less than 3 months (90 days) and not exceeding 18 months.



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Failure to benefit from the scholarship, which also occurred during the year, does not imply exemption from the payment of tuition and attendance fees for the entire year.

The enjoyment of the scholarship for attending the doctorate is compatible with other income, also received continuously in the calendar year in which the scholarship is received, as long as they do not exceed the maximum limit established. If the income limit is exceeded, the scholarship is considered revoked for the entire year. The PhD student is required to declare the income received annually and to report any exceeding of the prescribed limit.

The Ph.D Committee can authorize the PhD student to pursue paid employment activities.

For all that which is not explicitly set out in the present call for applications refer to art. 12 of the Regulations concerning PhD programmes of the University of Catanzaro.

The tuition fees and attendance at the PhD courses are determined for a.y. 2020/21, in the amount of € 1.124,45 to be paid in three installments according to the following table, and the Tax for the right to study determined by the Regione Calabria:

Category	Income	Annual amount university tax	I installment	II installment	III installment	Stamp duty paid virtual system	Tax for the right to study PhD programme
PhD student with grant	N.A.	€ 1.124,45 at the time of enrolment	€ 360,00 by 28.02.2021	382,23 by 30.06.2021	382,22	€ 16,00 at the time of enrolment	To be paid in the amount established by the DGR n. 286 of 13.07.2018
PhD student without grant		exoneration				€ 16,00	To be paid in the amount established by the DGR n. 286 of 13.07.2018

PhD students who are winners of doctoral grant who renounce the use of the scholarship are required to pay the annual university fee for the entire academic year, the regional tax for the right to study and stamp duties. Tuition and attendance fees for PhD courses for subsequent academic years are determined according to the aforementioned statement, unless otherwise determined at the time of approval of the University student contribution regulations.

Successful candidates enrolled in a non-medical specialisation school, first or second level degree programme or Masters, are required to suspend attendance of such courses from the start of the programme and for the entirety of its duration. Combined attendance of the Ph.D. programme and a



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medical specialisation school is permitted, with consequent reduction to a minimum of two years for the Ph.D. programme itself and in accordance with art. 19, L 240/2010 and D.M. 45/2013.

Loss of Ph.D. status, by means of an ordinance issued by the Dean following a motivated decision by the Ph.D. Teaching Body may occur in case of:

- a. negative end of year evaluation on the part of the Teaching Body;
- b. unjustified and prolonged absences;
- c. behavior in contrast with the incompatibility rules

In case of over thirty days of unmotivated absence or of exclusion from the programme, the scholarship will not be disbursed.

Loss of Ph.D. status in case of non-compliance with “Codice di comportamento dei dipendenti pubblici, a norma dell’art. 54 del D Lgs 165/2011 and with “Codice di comportamento dell’Università Magna Græcia, DR n. 370/2016”. The above-mentioned “Codici” are available on the Magna Graecia University website <http://web.unicz.it/it/page/codice-disciplinare-e-codice-di-condotta> .

For all further information, details and obligations on the PON R & I / PSRI grants, see the Italian version of the announcement, article 10.

Art. 11 – Attainment of the title

The title of Ph.D., abbreviated in Italian with “Dott. Ric.” (dottore di ricerca), is granted by the Dean following the public discussion of a theses which contributes to advancement of the knowledge and methodologies in the chosen field of research.

At the end of the discussion, the thesis is approved or rejected, with a motivated judgement in writing of the judging committee. The committee may unanimously attribute honours (*laude*) to works that make a significant scientific contribution to their field.

Art. 12 – Treatment of personal data

In accordance with **General Data Protection Regulation (GDPR)** (EU) 2016/679 and D. lgs. n. 196/2003 the University will respect the privacy of the information provided by candidates. All personal data will be used solely for the purposes of the selection process and subsequent relations between the successful candidates and the University.

Art. 13 – Ph.D. application procedure Manager

In accordance to the provisions of art. 5 law 7 August 1990 n. 241, the person in charge for the procedures established in the present call for applications, with exclusion of the phases selective, is Dott.ssa Eleonora Consoli, Area Affari Generali- Università Magna Græcia di Catanzaro- Campus Universitario- Viale Europa, Loc. Germaneto, Catanzaro- tel. + 39 0961/3696083, e-mail consoli@unicz.it ; overseeing the procedure is Sig.ra Viviana Borelli - tel. + 39 0961/3696075, fax +39 0961 3696150, e-mail affarigenerali1@unicz.it .



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Art. 14 – Norms of reference

For all that which is not explicitly set out in the present call for applications, legislative dispositions and norms on Ph.D. studentships apply.

Art. 15 – Publicity

The present call for applications, both in Italian and English, will be published on the website of the *Magna Græcia* University of Catanzaro at the address <https://web.unicz.it/it/category/bandi-ateneo>, <http://web.unicz.it/it/category/dottorati-di-ricerca> on the European website Euraxess and on the website of the MIUR.

In case of litigation, the text of reference will be exclusively the original text in Italian.



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ANNEX A – DETAILS OF A.Y. 2020/21 PH.D. PROGRAMMES

CHRONIC AND COMPLEX DISEASES BIOMARKERS

Disciplinary/Scientific Sectors

ACADEMIC FIELDS

MED/09– INTERNAL MEDICINE

MED/26-NEUROLOGY

MED/11-CARDIOVASCULAR SYSTEM DISEASES

MED/13-ENDOCRINOLOGY

MED/49-APPLIED DIETETICAL TECHNOLOGIES

ING-INF/05-DATA ELABORATION SYSTEMS

MED/23-CARDIAC SURGERY

ING-IND/34 - INDUSTRIAL BIOENGINEERING

MED/05 - CLINICAL PATHOLOGY

MED / 10 - DISEASES OF THE RESPIRATORY SYSTEM

MED / 12 – GASTROENTEROLOGY

MED / 14 - NEFROLOGY

MED / 18 - GENERAL SURGERY

MED / 22 - VASCULAR SURGERY

MED / 27 - NEUROSURGERY

MED / 30 - VISUAL SYSTEM DISEASES

MED/33 - LOCOMOTOR SYSTEM DISEASES

MED / 36 - DIAGNOSTICS FOR IMAGES AND RADIOTHERAPY

MED / 37 - NEURORADIOLOGY

MED / 39 - CHILD NEUROPSYCHIATRY

MED / 41 –ANESTHESIOLOGY



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MED / 43 - FORENSICS

MED / 48 - NURSING AND TECHNICAL NEURO-PSYCHIATRIC AND REHABILITATION SCIENCES

BIO/14 – PHARMACOLOGY

VET/07 – PHARMACOLOGY AND VETERINARY TOXICOLOGY

EDUCATIONAL OBJECTIVES

Chronic and complex diseases are pathologies with a multi-factorial etiological origin and constitute the most common human pathologies in the world (Global Status Report on NCD, WHO 2010, www.who.org), representing on their own about 80% of the load of disease of European national health systems. are some of the priorities of the World Health Organization (2008-2013 Action Plan for the Global Strategy for the Prevention and Control of Non-infectious Diseases). Chronic and complex diseases as a priority target for the global health economy, the WHO has indeed stated that: a) "their treatment does not exist or existing therapies are insufficiently effective" and b) "these are diseases where basic and clinical research together they are necessary to establish new biomarkers ". Therefore the PhD course will be aimed at training research doctoral figures who (a) have a complete understanding of the cellular and molecular mechanisms of chronic and complex diseases, in order to identify new biomarkers and which (b) are able to use the most modern technologies and investigation tools for solving complex scientific problems in this area. The skills acquired will be multidisciplinary in order to train highly qualified personnel for research in the university and private sectors.

Curriculum Analysis of imaging data, neurophysiological biosignals and molecular profiling for the identification of biomarkers applied to Neurosciences, main objectives: Identification of new imaging biomarkers for the diagnosis of neurological diseases.

Curriculum New biomedical technologies for identifying dysmetabolic and nutritional disease markers, main objectives: Identification and validation of markers for response to interventions on hepatic steatosis or complicated obesity; New biomedical technologies for the identification of diagnostic markers of insulin resistance and metabolic syndrome.

Curriculum Molecular and physiopathological aspects of chronic-degenerative and inflammatory diseases, main objectives: Mechanisms of damage and regeneration of pancreatic beta-cells; Genetic predisposition and low-grade chronic inflammation in chronic-degenerative diseases

Curriculum Chronic cardio-pulmonary diseases and biotechnological and engineering solutions for regenerative medicine, main objectives: Identification of new biomarkers for chronic cardiovascular and pulmonary diseases; Molecular mechanisms of coronary stenosis / restenosis; Biotechnological approaches for cardiac regeneration.

Curriculum Methods and techniques of computer engineering for processing, management and for efficient analysis data, main objectives: Big Data in bioinformatics and medical informatics; Data mining / deep learning analysis of omics and clinical data; Analysis and alignment of biological networks.



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Curricula

- Analysis of imaging data, neurophysiological biosignals and molecular profiling for the identification of biomarkers applied to Neurosciences
- New biomedical technologies for identifying dysmetabolic and nutritional disease markers
- Molecular and physiopathological aspects of chronic-degenerative and inflammatory diseases
- Chronic cardio-pulmonary diseases and biotechnological and engineering solutions for regenerative medicine
- Methods and techniques of computer engineering for processing, management and for efficient analysis data

Programme Duration: 3 years

Coordinator: Prof. Daniele Torella

e-mail: dtorella@unicz.it

Degree classes required for admission:

LM-6 Biology

LM-8 Industrial Biotechnologies

LM-9 Medical, veterinary and pharmaceutical biotechnologies

LM-13 Pharmaceuticals and industrial pharmaceuticals

LM-17 Physics

LM-18 Informatics

LM-21 Biomedical engineering

LM-27 Telecommunications engineering

LM-29 Electronics

LM-31 Engineering Management

LM-32 Computer Science

LM-33 Mechanics

LM-40 Mathematics

LM-41 Medicine



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LM-44 Mathematical/physical modelling for engineering

LM-51 Psychology

LM-54 Chemical Sciences

LM- 61 Human Nutrition Sciences

LM-82 Statistical sciences

LM-91 Techniques and methods for the information society

LM/SNT2 Rehabilitation and health professions sciences

LM/SNT3 Health sector technologies professions sciences

Positions with scholarship n. 11: n. 9 ordinary positions

n.2 reserved positions for candidates who have graduated from foreign universities

Positions without grant n. 3

Details research project: The research project, which can be presented in English or in Italian, must be written in a maximum of 4 folders (30 lines of 90 characters each) including any diagrams or graphs, and must be inherent to the issues concerning the objectives course training courses, described above, with reference to the chosen curriculum

Qualifications and research project evaluation results publication date:

6 November 2020 on website <http://web.unicz.it/it/category/dottorati-di-ricerca>

Interviews:

11 November 2020 9:00 a.m. aula A- Edificio Preclinico, livello 0, Campus Universitario, V.le Europa, Loc. Germaneto, Catanzaro

See art.6 for interview in videoconference

Foreign Language: English



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MOLECULAR AND TRANSLATIONAL ONCOLOGY AND INNOVATIVE MEDICAL SURGICAL TECHNIQUES

Disciplinary/Scientific Sectors

ACADEMIC FIELDS

BIO / 16-HUMAN ANATOMY

BIO / 12 - CLINICAL BIOCHEMISTRY AND CLINICAL MOLECULAR BIOLOGY

MED / 50 - APPLIED MEDICAL TECHNOLOGIES

MED / 18 - GENERAL SURGERY

*FIS / 07- APPLIED PHYSICS (ENVIRONMENT AND HERITAGE, BIOLOGY AND MEDICINE) CHIM / 01-
ANALYTICAL CHEMISTRY*

CHIM/01 - CHEMISTRY

BIO / 10-BIOCHEMISTRY

BIO / 11-MOLECULAR BIOLOGY

BIO / 13-APPLIED BIOLOGY

MED / 03-MEDICAL GENETICS

MED / 04-GENERAL PATHOLOGY

MED / 06-MEDICAL ONCOLOGY

MED / 19-PLASTIC SURGERY

MED / 24-UROLOGY

MED / 36-DIAGNOSTICS FOR IMAGES AND RADIOTHERAPY

MED / 40-GYNECOLOGY AND OBSTETRICS

MED / 45-GENERAL, CLINICAL AND PEDIATRIC NURSING SCIENCES

ING-INF / 04-AUTOMATICS

ING-INF / 06- BIOENGINEERING, ELECTRONICS AND INFORMATION TECHNOLOGY

FIS / 01-EXPERIMENTAL PHYSICS



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EDUCATIONAL OBJECTIVES

The aim of the Ph.D. is to train professionals with interdisciplinary skills in oncological research, autonomy in planning, execution and interpretation of experiments, formulation of research projects and writing of scientific articles. The programme is divided into four curricula:

Molecular Oncology – Study of the molecular alterations involved in the onset, progression and dispersal of family and sporadic tumours, through experimental models in vitro, ex-vivo and in vivo. Use of “high-throughput” approaches for the definition of tumour genomic and epigenomic panorama, proteomics and metabolics.

Biomedical, Systems and applied nanotechnologies Engineering – Methods and technologies for the modelling, simulation, and control of biological systems, the elaboration of images aimed at the planning of therapeutic interventions, the planning of nanotechnologies based innovative biomedical devices.

Medical translational oncology – Innovative approaches for the development of high-selectivity diagnostic, therapeutic and/or pre-emptive strategies in medical oncology.

Innovative technologies and therapies in urological, gynaecological surgery and in fertility preservation – clinical research methodology applies to oncological pathologies relating to urology and gynaecology (primary prevention, precocious diagnosing and treatment) and to innovative fertility preservation therapies.

Curricula

- ***Molecular Oncology***
- ***Biomedical Engineering, Systems and Nanotechnologies applied to Oncology***
- ***Medical and translational oncology***
- ***Innovative technologies and therapies in urological, gynaecological surgery and in fertility preservation***

Programme Duration: 3 years

Coordinator: Prof. Giovanni Cuda

e-mail cuda@unicz.it



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Degree classes required for admission:

LM-6 Biology

LM-9 Medical, veterinary and pharmaceutical biotechnologies

LM-13 Pharmaceuticals and industrial pharmaceuticals

LM-17 Physics

LM-18 Informatics

LM-21 Biomedical engineering

LM-22 Chemical engineering

LM-25 Automation engineering

LM-26 Security engineering

LM-27 Telecommunications engineering

LM-28 Electrical energy Engineering

LM-29 Electronics

LM-31 Engineering Management

LM-32 Informatics Engineering

LM-33 Mechanics

LM-35 Environment and territory engineering

LM-40 Mathematics

LM-41 Medicine

LM-44 Mathematical/physical modelling for engineering

LM-53 Material science and engineering

LM-54 Chemical sciences

LM-82 Statistical sciences

Positions with scholarship n. 9:

n. 7 ordinary positions

n.2 reserved positions for candidates who have graduated from foreign universities

Positions without grant n. 2



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Details research project: The research project, which can be presented in English or in Italian, must be written in a maximum of 4 folders (30 lines of 90 characters each) including any diagrams or graphs, and must be inherent to the issues concerning the objectives course training courses, described above, with reference to the chosen curriculum

Qualifications and research project evaluation results publication date:

By 9 November 2020 on website <http://web.unicz.it/it/category/dottorati-di-ricerca>

Interviews:

12 November 2020, 9:00 a.m., Aula Magna C, Corpo G, livello 2, Campus Universitario, V.le Europa, Loc. Germaneto, Catanzaro

See art.6 for interview in videoconference

Foreign Language: English

LIFE SCIENCES

Disciplinary/Scientific Sectors

ACADEMIC FIELDS

AGR / 18 - NUTRITION AND ANIMAL FEEDING

CHIM / 06 - ORGANIC CHEMISTRY

CHIM / 08 - PHARMACEUTICAL CHEMISTRY

CHIM / 09 - PHARMACEUTICAL APPLIED TECHNOLOGIES

BIO / 10 – BIOCHEMISTRY

BIO / 11 -MOLECULAR BIOLOGY

BIO / 14 - PHARMACOLOGY

BIO / 15 - PHARMACEUTICAL BIOLOGY

MED / 04 - GENERAL PATHOLOGY

MED / 07 - MICROBIOLOGY AND CLINICAL MICROBIOLOGY

MED / 17 - CONTAGIOUS DISEASES



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MED / 35 - SKIN AND VENEREAL DISEASES

MED / 38 - GENERAL AND SPECIALIST PEDIATRICS

MED / 42 - GENERAL AND APPLIED HYGIENE

MED / 43 - FORENSICS

MED / 49 - APPLIED DIETETICS AND TECHNOLOGIES SCIENCES

MED / 50 - APPLIED MEDICAL TECHNICAL SCIENCES

VET / 06 - PARASITOLOGY AND ANIMAL PARASITIC DISEASES

VET / 07 – PHARMACOLOGY AND VETERINARY TOXICOLOGY

ING-INF / 01 – ELECTRONICS

CHIM / 03 - INORGANIC GENERAL CHEMISTRY

MED / 12 – GASTROENTEROLOGY

MED / 14 – NEFROLOGY

MED / 25 - PSYCHIATRY

BIO / 13 - APPLIED BIOLOGY

MED / 13 – ENDOCRINOLOGY

MED / 28 - ODONTOSTOMATOLOGICAL DISEASES

MED / 18 - GENERAL SURGERY

VET / 05 - INFECTIOUS DISEASES OF PETS

CHIM/10 – FOOD CHEMISTRY

M-EDF/01 - METHODS AND DIDACTICS OF MOTOR ACTIVITIES

M-PSI/04 – DEVELOPMENTAL PSYCHOLOGY AND EDUCATIONAL PSYCHOLOGY

EDUCATIONAL OBJECTIVES

The aim of the programme is the training of experts in Life Sciences research following one of the four curricular areas:

Pharmaceutical sciences, which includes themes relating to the development of the drug in a general sense: from drug discovery, in silico, to the preparation and extraction of active principles, privileging the



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green chemistry approaches, their conveying, through advanced drug delivery systems, and in vitro and in vivo bio-pharmaceutical characterisation.

Food toxicology, regarding themes linked to food security for both men and animals, included the valorisation of the agricultural and food heritage.

Biotechnological and Veterinary Sciences, which studies the characterisation of molecular mechanisms causing physio-pathological phenomena through advanced biotechnological and veterinary approaches of genomics and proteomics

Medical Sciences and public health which includes interdisciplinary medical research topics concerning human and animal pathologies with applicative implications in Public Health

The transversal theme of the polypharmacological approach implemented in the COST Action CA15135 allows the PhD students, framed in one of the four curricula, to deal with complex problems characterized by a strong multidisciplinary also in an international key.

Curricula

- **Pharmaceutics**
- **Food sciences and toxicology**
- **Biotechnological and veterinary sciences,**
- **Medical Sciences and Public Health**
-

Programme Duration: 3 years

Coordinator: Prof. Stefano Alcaro

e-mail alcaro@unicz.it

Degrees required for admission:

LM-6 Biology

LM-8 Industrial biotechnologies

LM-9 Medical, veterinary and pharmaceutical biotechnologies

LM-13 Pharmaceutics and industrial pharmaceutics

LM-17 Physics

LM-21 Biomedical engineering

LM-22 Chemical engineering



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LM-41 Medicine

LM-42 Veterinary medicine

LM-46 Dentistry and dental prosthetics

LM-53 Material science and engineering

LM-54 Chemical sciences

LM-60 Nature sciences

LM-69 Agricultural sciences and technologies

LM-70 Food sciences and technologies

LM-71 Industrial chemistry science and technologies

LM-75 Environment and land sciences and technologies

LM-86 Animal husbandry science and technology

Positions with scholarship n. 9:

n. 7 ordinary positions

n.2 reserved positions for candidates who have graduated from foreign universities

Positions without grant n. 2

Details research project: The research project, which can be presented in English or in Italian, must be written in a maximum of 4 folders (30 lines of 90 characters each) including any diagrams or graphs, and must be inherent to the issues concerning the objectives course training courses, described above, with reference to the chosen curriculum

Qualifications and research project evaluation results publication date:

By 16 November 2020 on website <http://web.unicz.it/it/category/dottorati-di-ricerca>

Interviews:

19 November 2020, 9:00 a.m., Aula Magna C, Corpo G, livello 2, Campus Universitario, V.le Europa, Loc. Germaneto, Catanzaro

See art.6 for interview in videoconference

Foreign Language: English



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EUROPEAN LEGAL AND ECONOMIC SYSTEMS

Disciplinary/Scientific Sectors

ACADEMIC FIELDS

IUS / 05 – ECONOMIC LAW

SECS-P / 10 - BUSINESS ORGANIZATION

SECS-P / 03 - SCIENCE OF FINANCE

IUS / 13 - INTERNATIONAL POLICY

SPS / 07 - GENERAL SOCIOLOGY

IUS / 17 - CRIMINAL LAW

SPS / 09 -SOCIOLOGY OF ECONOMIC PROCESSES AND WORK

IUS / 09 - PUBLIC LAW INSTITUTION

IUS / 15 - CIVIL PROCEDURE LAW

IUS / 01-PRIVATE LAW

IUS / 07-LABOUR LAW

IUS / 08 — CONSTITUTIONAL LAW

IUS / 10-ADMINISTRATIVE LAW

IUS / 10 – CANON LAW AND ECCLESIASTICAL LAW

IUS/16-CRIMINAL PROCEDURE

IUS/18- ROMAN LAW AND ANCIENT LAWS

IUS / 19-HISTORY OF MEDIEVAL AND MODERN LAW

IUS / 20-PHILOSOPHY OF LAW

SPS/12-SOCIOLOGY OF LAW, DEVIANCE AND SOCIAL CHANGE

SECS-P / 02-ECONOMIC POLICY

SECS-P/07-BUSINESS ADMINISTRATION AND MANAGEMENT

SECS-P / 11-ECONOMY OF FINANCIAL INTERMEDIARIES

SECS-P / 12-ECONOMIC HISTORY



UNIONE EUROPEA
Fondo Sociale Europeo



EDUCATIONAL OBJECTIVES

The programme provides multidisciplinary skills and knowledge in the fields of the theory of law, of laws (civil, business and labor law), in economics, in the European context, with reference to public and private companies, institutions and markets, and in sociology, concerning the issues of migration and the right to health. The aim is to put into practice an articulated on juridical supranationality and in particular on the European economic constitution.

The *ad hoc* objectives for each of the four curricula are as follows:

The **Theory and history of law: sociality and public sphere supranational** focuses on issues related to the revival of a new supranational common law, with special attention to the process of globalization, to European integration and their constitutionalization .

The **Laws, protections, markets: negotiating autonomies and business disciplines** is aimed at guaranteeing juridical knowledge, which go from themes of consumer protection to contract, and the regulation of labor relations.

The **Companies, institutions and markets in the European Union** provides specialised in depth analysis (managerial, economic and legal), in terms of rules, patterns of functioning and financing for businesses, real and financial markets, institutions and economic policies in EU.

The **Migration, European health systems and protection of fundamental rights – MISED** curriculum provides competences for the analysis of social and legal relations, and fundamental rights, in relation to migration and health in a European perspective.

Curricula:

- **Theory and history of law: sociality and public sphere supranational**
- **Laws, protections, markets: negotiating autonomies and business disciplines**
- **Companies, institutions and markets in the European Union**
- **Migration, European health systems and protection of fundamental rights – MISED.**

Programme Duration: 3 years

Coordinator: Prof. Massimo La Torre

e-mail mlatorre@unicz.it



UNIONE EUROPEA
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Degrees required for admission:

LMG/01 Law

LM-52 International Relations

LM-56 Economics

LM-63 Public administration sciences

LM-76 Economics for environment and culture

LM-77 Business and management studies

LM-78 Philosophy

LM-88 Sociology and social research

LM-90 European Sciences

Positions with scholarship n. 13:

n.11 ordinary positions

n.2 reserved positions for candidates who have graduated from foreign universities

Positions without grant n. 3

Details research project: The research project, which can be presented in English or in Italian, must be written in a maximum of 3000 words, and must be inherent to the issues concerning the objectives course training courses, described above, with reference to the chosen curriculum

Qualifications and research project evaluation results publication date:

6 November 2020 on website <http://web.unicz.it/it/category/dottorati-di-ricerca>

Interviews:

9 November 2020 ore 9:30 a.m. Sala Riunioni, piano terra, Dipartimento di Giurisprudenza, Economia e Sociologia - Edificio Giuridico - Economico, Campus Universitario, V.le Europa, Loc. Germaneto, Catanzaro

See art.6 for interview in videoconference

Foreign Language: English or Spanish