



Call for Doctoral positions in the International Doctoral School in Biomolecular Sciences - 26th Cycle

THE RECTOR

In accordance with Law no. 210 of 3rd of July 1998 and in particular, art. 4, which assigns the organization of doctoral schools to universities given the general criteria stipulated by ministerial regulations;
In accordance with the Ministerial Decree no. 224 of 30th of April 1999, regarding the general criteria to be followed by individual universities in the organization of doctoral schools;
In accordance with the Decree by the Prime Minister of 9th of April 2001, and subsequent amendments on the general criteria for uniform treatment regarding the right to higher education;
In accordance with the Charter of the University of Trento and in particular art. 12, paragraph 9;
In accordance with the University Regulations for Doctoral Schools, issued with the Rector's Decree no. 997 of 16th of December 2003; and subsequently modified with Rector's Decree no. 359 of 19th of April 2006;
In accordance with the proposal of the Centre for Integrative Biology (CIBIO);
Given the report of the internal Evaluation Committee of 29th of December 2009 on the requirements for the Doctoral Programmes proposed;
Given the resolution made jointly by the Academic Senate and the Scientific Research Committee on the 3rd of February 2010;

DECREES

Art. 1 – INSTITUTION

The University of Trento announces the 26th cycle of the Doctoral School in *Biomolecular Sciences*.

Length: three years

Scientific areas:

BIO/06 Comparative anatomy and Cytology
BIO/10 Biochemistry
BIO/11 Molecular Biology
BIO/13 Applied Biology
BIO/18 Genetics
BIO/19 Microbiology
CHIM/06 Organic Chemistry
INF/01 Informatics

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Official language: English

The selection for **10 doctoral positions** is announced. **8 positions** will be assigned scholarships.
The scholarships are funded as follows:

- no. **3** scholarships funded by the University of Trento on research projects to be carried out at the laboratories of CIBIO.

To get more info please visit the webpage: <http://portale.unitn.it/cibio>

- no. **1** scholarship funded by the University of Trento, CIBIO – Centre for Integrate Biology, concerning the research subject “*Construction of genetically encoded in vitro sensory elements*”.

To get more info please visit the webpage: <http://www.smansy.org/>



- no. 1 scholarship funded by the Fondazione Bruno Kessler (FBK) - concerning the research subject "*Materials and surface processes for the development of label-free detection systems in molecular diagnostic applications*".

To get more info please visit the webpage: <http://m2b2.fbk.eu/>

- no. 1 scholarship funded by the Fondazione Bruno Kessler (FBK) **reserved** for the research project in "*Computational Functional Genomics*". The assignment of this grant required a **specific suitability** to be evaluated during the oral exam.

The ideal candidate will have a strong interest in developing an interdisciplinary expertise in computational methods for high-throughput functional genomics, with special attention to next generation sequencing. Some basic knowledge of the mechanisms of regulation at DNA, RNA (miRNA), and protein levels and of standard DNA/RNA sequencing concepts is required. Intermediate or higher IT skills are expected in algorithmics for bioinformatics, programming languages (Python and C as baseline), competence in the use of *nix O.S., in interacting with databases, use of standard bioinformatics tools, knowledge of the R statistical and visualization environment. Basic mathematics competence should cover calculus linear algebra. Bases of statistical machine learning are also required. Preference will be given to a candidate with a Master degree (Laurea magistrale/specialistica or equivalent) in Mathematics, Biotechnology, Bioinformatics or Bioengineering.

To get more info please visit the webpage: <http://mpba.fbk.eu/en/home>

- no. 1 scholarship: funded by the Fondazione Edmund Mach (FEM) **reserved** for the research project in "*The effect of fruit consumption on mammalian metabolism*". The assignment of this grant required a **specific suitability** to be evaluated during the oral exam.

The selected candidate will develop sample preparation methods, analysis of small molecule biomarkers, identification of organic metabolites in both fruits and biological matrices (fluids, tissue and cell cultures) by using mass spectrometry and data modelling for metabolic pathway visualisation and interpretation. The candidate should have a solid background in mass spectrometry and chromatographic methods of small molecules. Moreover, the candidate should have knowledge of the biochemistry, a strong interest in human nutrition and metabolomics. Some basic knowledge of the data modelling for pathway visualisation and interpretation is expected. Knowledge of metabolomics software and data interpretation is also required. Preference will be given to candidates with a Masters degree (Laurea magistrale/specialistica or equivalent) in Chemistry, Biochemistry, Pharmacy, or Biology.

To get more info on laboratory please visit the webpage: http://www.iasma.it/CRI_metabolomics

- no. 1 scholarship: funded by the Fondazione Edmund Mach (FEM) **reserved** for the research project in "*Metabolic imaging: looking fruits at the molecular level*", The assignment of this grant required a **specific suitability** to be evaluated during the oral exam.

The selected candidate will be responsible of developing sample preparation methods, analysis of low-molecular-weight biomarkers and identification of organic metabolites in both fruits and other plant tissues by using mass spectrometry (e.g. MALDI, DESI) and by chemical and biological data modelling. The candidate should have motivation and attitude towards interdisciplinary research; creativity; good English communication skills. The selected candidate should have skills in mass spectrometry and chromatographic analysis of small molecules. Moreover, the candidate should have knowledge of the plant physiology and plant biochemistry. Some basic knowledge of the data modelling for pathway visualisation and interpretation is required. Preference will be given to candidates with a Masters degree (Laurea magistrale/specialistica or equivalent) in Chemistry, Biochemistry, Bioinformatics, Plant physiology, Plant biotechnology.

To get more info please visit the webpage: http://www.iasma.it/CRI_metabolomics

Research areas:

1. Biochemistry
2. Bioinformatics
3. Bioorganic Chemistry
4. Developmental Biology
5. Genetics
6. Lipidomics and Biomembranes
7. Metabolomics and metabolic imaging



8. Microbiology
9. Molecular and Cellular Biology
10. Nanobiotechnology
11. Neurobiology
12. Structural Biology
13. Synthetic Biology
14. System and Computational Biology

The number of grant-assisted positions may be increased by funds from universities, public research institutions or qualified private organizations that are become available after the publication of this announcement and before the titles' evaluation. The increase of the grants could determine the increase of the positions too.

Applicants who want to compete for any extra grant-assisted positions concerning a specific research subject are required to ask the Admission Committee for it during the candidate's identification, which takes place before the oral examination. In such case the candidate's competence in the specific subject of the grant is evaluated during the oral examination.

Any increase in the number of available positions resulting from an increase of grants will be posted on the website: <http://portale.unitn.it/en/ec/phd/bs.htm>

Art. 2 – ADMISSION REQUIREMENTS

Applications for the doctoral positions are accepted from candidates, regardless of gender, age and nationality, who have an Italian "laurea specialistica" or "laurea magistrale" in compliance with Ministerial Decree no. 509 of 3.11.1999 as amended, a university degree of the previously enforced Italian regulations, or an equivalent academic degree obtained abroad.

The degree in scientific areas will be a preferential title.

Applicants who have a foreign degree which has not already been officially recognized as equivalent to an Italian degree must request the equivalence in their application for the present competition.

In such cases the documents required at the following art. 4 of the announcement must be enclosed with the application in order to allow the Doctoral School Committee to declare the value of such degree.

This evaluation is valid only to take part in the selection procedure.

Applications are also accepted from students who expect to complete their **by the 29th of October 2010** In such cases admission is "conditional" and applicants must be able to present to the Secretary of the Doctoral School in Biomolecular Sciences (Address: Via Sommarive, 14 – 38123 POVO -Trento, Italy; Fax: +39 0461 283937) the degree certificate, or a self-certification (according to Presidential Decree no. 445 of 28.12.2000 applicable only to EU citizens) that they have gained the degree **within the 3rd of November 2010** or they will be excluded.

Art. 3 – THE DOCTORATE PROGRAMME

The Doctorate School in Biomolecular Sciences is characterized by a program that enables students to acquire high-level skills in different research areas, encouraging the development of scientific and technological progress in innovative areas that require interdisciplinary approaches.

The teaching and research programs of the Doctoral School aim to promote cooperation with other Italian or foreign universities. For this reason, study periods abroad not exceeding one year are considered mandatory.

The training is characterized by an appropriate balance between:

- 1) courses, mostly concentrated in the first and second year and
- 2) research activity in the laboratory.

Each doctorate student attends a timely training course that includes, besides the research performed under the supervision of the tutor and advisor in accordance with the respective competences, base and advanced courses as well as specialization courses at the University of Trento.



The students enrolled at the International Doctoral School in Biomolecular Sciences are obliged to attend courses, seminars, symposia and practical courses organized by the Doctorate School.

Base and advanced courses. The teaching staff of the University of Trento, assisted also by visiting professors, will provide enhancement courses regarding specific topics of biological and biotechnological relevance. Furthermore during the first year, practical laboratory activities are planned, in order to offer to the new students the opportunity to know directly the scientific topics carried out by different research groups. Internationally renowned teachers will be invited to hold specific courses of particular scientific relevance.

Seminars. National and international researches will be invited to present their research within the seminar cycle. Internal seminars (journal clubs and progress report) will be regularly organized in order to present and discuss new published results or to shown data of ongoing research activities.

Symposia. A symposium (named *work in progress*) which all the doctorate students have to attend will be organized once a year. They will present posters regarding their project and will give a short presentation of their results. For the doctorate student, this meeting will be the occasion to socialize and in particular to know the projects and the results of his/her colleagues. Moreover, they will have the opportunity to gain experience in communication and presentation of scientific results.

The 3-year Doctoral School is organized in the following way:

First year: the doctoral students must attend:

- Courses for a total of 60 hours
- Initiatives described above.

The teaching program offered each year by the Doctoral School is presented at the start of the academic year in the School's Manifesto of Studies which will be published on the internet at <http://portale.unitn.it/drbs/>

At the end of the first year, students must submit a plan of study indicating the courses that each of them intends to follow during the second year among those proposed in the manifesto of the studies.

Second year: the doctoral students must attend:

- Courses for a total of 60 hours, selected from the basic courses and other courses offered by the Research Doctoral and possibly those offered by the faculty of Sciences, Initiatives described above

Early in the second year, the student presents the proposal for the PhD thesis.

During the second year of the Doctorate, upon request, the doctoral students in Biomolecular Sciences can be authorized to carry out paid auxiliary and integrative teaching activities for a total of not more than 60 hours as long as this does not affect attendance at the doctoral courses and the student's educational activities.

The third year doctoral students focus predominantly on their research. They must attend the initiatives previously described.

Conditions for the admission to the following year:

For the admission to the second year, the following requisites are essential:

- regular participation to the educational activities proposed by the Doctoral School (80% of attendance for each course and at least 15 seminars every year). In case the candidate should not reach the required attendance hours, the Doctoral School Committee could decide to approve the admission to the following year under condition and to require the doctoral student to attend courses again if necessary.
- to obtain a fulfilling evaluation of the professors and the advisor or the tutor – in case no advisor has been assigned. The professors and the advisor should provide the Committee of Examination with a letter of evaluation before the end of the year. The evaluation must be concise, clear and precise.

Based on the above information, the Commission suggests one of the following scores to the Doctoral School Committee

- APPROVED. The student can access to the second year.



- APPROVED WITH WARNING, the student may continue but shortcomings have been highlighted in the preparation or research project.

- NOT APPROVED, further review and evaluation are needed.

The student, who needs a serious revision of the research project based of comments received from the advisor or tutor or from the Committee of Examination, is invited to a subsequent discussion in front of Doctoral School Committee and in the presence of the advisor and tutor.

At the end of this stage of evaluation, the Doctoral School Committee will inform the student of its decision.

For the admission to the third year, the following requisites are essential:

- regular participation to the educational activities proposed by the Doctoral School (80% of attendance for each course and at least 15 seminars every year). In case the candidate should not reach the required attendance hours, the Doctoral School Committee could decide to approve the admission to the following year under condition and to require the doctoral student to attend courses again if necessary.
- to obtain a fulfilling evaluation which the advisor or the tutor has to provide within the end of the second year.

For admission to the final exam, the tutor submits to the Doctoral School Committee a letter of presentation that assesses the activities carried out by the PhD candidate along with a list of publications that the candidate has submitted or published during the PhD period.

Based on this letter, the Doctoral School Committee will express the opinion of assessment.

Only upon a positive evaluation by the Doctoral School Committee, the student is admitted to the final exam.

Art. 4 – APPLICATION

The application, together with all the attachments required, must arrive at the University of Trento **by the 30th of September 2010** in one of the following ways:

- a) hand-delivered to the University of Trento - Ufficio Protocollo Centrale, Via Belenzani 12 – 38122 Trento (ITALY) from 10:00 am to 12:00 a.m., Monday to Friday;
- b) by mail to the following address: Al Magnifico Rettore dell'Università degli Studi di Trento, Via Belenzani 12 – 38122 Trento (ITALY) (please write "Selection for Doctoral School in Biomolecular Sciences"-26 cycle on the envelope);
- c) on-line application at the following website: <http://portale.unitn.it/en/applyphd.htm> **by 4:00 p.m. (GMT+1) of the 30th of September 2010**

Applications arriving after the 30th of September 2010 will be disregarded, even if sent before the deadline.

The University of Trento does not accept responsibility for mishandling of applications by mail or courier services, or for applications sent to an incorrect address.

According to Italian Law no. 104/92, art. 20 and to Italian Law no. 68/99, art. 16, par. 1, applicants with special needs are expected to indicate explicitly in their application whether they require special assistance or extra time during the examinations. Under Legislative Decree 196/03, all information will be kept confidential.

Attachments:

Applications must include:

1. A photocopy of the applicant's identity card or passport;
The degree certificate, with a list of the examinations successfully passed and scores obtained in each examination.
The candidates who have **a foreign degree** that has not already been officially recognized as equivalent to the Italian degree have to attach, in addition to the above mentioned document, a translation into English of the degree certificate with exams and results obtained, signed by the applicant (or, if available, to submit their degree certificate along with exams taken and results, translated and authenticated by an Italian consulate, embassy or diplomatic representative in the country where the degree was issued and the respective declaration of value "Dichiarazione di Valore") in order to enable



the Doctoral School Committee to state its equivalence, only for the purpose of being admitted to the selection procedure of this announcement.

Applicants expecting to be awarded their degree **by the 29th of October 2010** must submit a certification of the enrolment in the course of studies with a list of the examinations passed and marks obtained.

Applicants expecting to be awarded a foreign degree must submit, furthermore, a translation in English of the exams taken and scores obtained, signed under their own responsibility, valid solely for the purposes of admission to the selection process.

Then, all the applicants will be required to send the degree certificate, stating the awarding of the academic title, with the grade obtained, to the Secretariat of the Doctoral School of Biomolecular Sciences (via Sommarive 14, 38123, POVO (TN); Fax 0039 0461 283937) **within the 3rd of November 2010** or they will be excluded.

The EU citizens will be allowed to submit the required documents through a self-certification according to Presidential Decree no. 445 of 28.12.2000 concerning EU citizens).

3. Curriculum vitae et studiorum;

4. Summary of the degree's thesis, in English for foreign candidates, subdivided in: thesis motivation, investigation methods, results obtained (maximum 3000 characters, font 12, single space).

In the application the candidate **must indicate** two choices among the 14 research areas and specify the order of preference as well.

The candidate interested in obtaining the suitability for one or more reserved scholarship (1. "Computational Functional Genomics" 2. "The effect of fruit consumption on mammalian metabolism" 3. "Metabolic imaging: looking fruits at the molecular level") must indicate the interest and the suitability will be evaluated during the oral exam.

Application may include:

- Any certificates of the English language (e.g. TOEFL, Proficiency Certificate or other);
- any reference letters in English or Italian written by thesis advisor or by experts in the doctoral research areas;
- any other qualifications useful for assessment of the applicant (e.g.: scientific publications, prizes, study and post-graduate activities of research, etc.);
- a letter of motivation

The required documentations for the application must be in Italian or English.

If, subsequent to the submission of their application, applicants need to add further information, this must reach the University offices **within the 30th of September 2010**, through one of the ways listed in the letter a) or b) of this article. The applicant's name, Doctoral School in Biomolecular Sciences and "Integrazione domanda" must be clearly written on the envelope.

The University of Trento has the right to check, even to spot check, declarations and documents provided by the candidates, according of art. 71 and following articles of the Presidential Decree no. 445 of 28th of December 2000. Candidates whose applications do not conform to the admission requirements set out in the present call may be excluded from the selection process by written notice at any time.

Art. 5 – SELECTION

The selection process consists of:

- an evaluation assessment of qualifications according to Art. 4;
- an oral examination.

During the oral exam the Commission assesses the suitability of the candidates requiring to be evaluated for one or more reserved scholarships.

The Commission may make use of an overall score of 100 points, divided in the following way:

- 60 points for the qualifications assessment;
- 40 points for the oral examination.

In order to be admitted to the oral examination candidates must reach a minimum score of 40/60 after the qualifications assessment.



The list of those candidates admitted to the oral examination will be published, after the qualifications assessment, on the web page: <http://portale.unitn.it/en/ec/phd/bs.htm>.

In order to take the oral examination the candidates must present a valid photo ID.

The oral examination is considered passed with a score even or equal to 25/40.

The selection is considered passed with a score even or equal to 65/100.

Candidates not residing in Italy can take the oral examination in their home countries by phone or videoconference. In this case these candidates must provide, filling in the attached Form A, the contact information of the name of a professor or employee belonging to a University or diplomatic institution who may verify the candidate's identity and oversee the oral examination.

The Commission will evaluate the candidate request and decide which way to proceed through. After it the Commission will contact the candidate to agree on the day and time of the oral examination.

Short-listed applicants will be admitted to the Doctoral School according to their placement in the list until all available places have been filled.

At least 20 days before the oral examination, the date, the time and the location of the oral examination will be published on the following webpage: <http://portale.unitn.it/en/ec/phd/bs.htm> as laid out in Art. 20 of the University Regulations of Doctoral Schools.

Art. 6 - PROGRAMME OF THE ORAL EXAMINATION

The interview aims to evaluate the preparation of the candidate and his/her research aptitude. The interview is held in English. The interview focuses on questions relating to the research carried out by the candidate, the contribution to any scientific publications along with general questions aimed to determine the background of the candidate.

As concerns the candidate having required to be evaluated for one or more reserved scholarships (1."Computational Functional Genomics" 2."The effect of fruit consumption on mammalian metabolism" 3. "Metabolic imaging: looking fruits at the molecular level") the Commission will evaluate the specific suitability during the oral exam.

Art. 7 – ADMISSIONS COMMITTEE

Upon hearing the Doctoral School Committee the Rector appoints the Admissions Committee.

It consists of three members chosen among Italian and foreign tenure professors and researchers, who are experts in the scientific areas of the Doctoral School. The Committee may also include two experts, who may be foreign, from public and private national and international research centres.

Having held the qualifications evaluation and the oral examination, the Committee will draw up a merit-based ranking according to the scores obtained by the applicants.

The final ranking of the candidates will be posted on the website: <http://portale.unitn.it/en/ec/phd/bs.htm> Through publication of such list, notification concerning the proceedings is considered to be fulfilled.

Applicants admitted to the School will not receive personal communication of their results.

Art. 8 – ADMISSION TO THE DOCTORAL SCHOOL

Applicants will be admitted to the Doctoral School according to their place on the final ranking until all available places have been filled.

In case of equally ranked candidates, the student's economic situation will be evaluated for the purpose of assigning a scholarship, in accordance with the Decree of the President of the Council of Ministers (D.P.C.M.) of April 9, 2001 as amended. For places without a scholarship, the younger candidate shall be given priority.

If a successful applicant withdraws before the beginning of the course, (1st of January 2011) the next applicant on the ranking will be offered the place.

If a successful applicant withdraws or is excluded during the first three months of the first year of the course, the Doctoral School Committee may decide to fill the vacant place with the next available candidate on the ranking.

According to art.19, paragraph 3 of the University Regulations for Doctoral Schools and according to previous Doctoral School Committee resolutions, the Admissions Committee may admit to the School up to



20% of the total assigned places, candidates who are eligible in the general ranking, if they belong to the following categories:

- applicants from non-E.U. countries who have been awarded any kind of grant¹ at the moment of the application for the admission to the Doctoral School (e.g. assigned by Ministry of Foreign Affairs, or by Government of home country or by International Organizations);
- applicants from a country with a specific intergovernmental agreement with Italy, on the basis of a bilateral agreement between the University of Trento and the foreign university (with no obligatory financial burden for the University of Trento);
- candidates who have been awarded a research grant under Italian Law 449/97, art. 51².

Art. 9 – HOW TO ENROL

Eligible applicants who are admitted to the School should forward their enrolment application on paper with attached stamp duty to: the University of Trento - Direzione Didattica e Servizi agli Studenti – Ufficio Dottorati ed Esami di Stato, Via Inama 5 – 38122 Trento (ITALY) **within 15 days** after the date of the publication of the final ranking at the page: <http://portale.unitn.it/en/ec/phd/bs.htm>
If applicable, the payment receipt of the provincial tax for the right to university study (TDS) must be attached to the application.

In the application (forms are available at the Ufficio Dottorati ed Esami di Stato and on the website: <http://portale.unitn.it/en/ec/phd.htm>) candidates should:

- indicate whether they ask to be awarded a scholarship (successful applicants, who have not been awarded a scholarship should also fill out this section, in case an applicant with scholarship should withdraw);
- state whether they receive another grant, different from the one awarded by the University of Trento, from the Italian Ministry of Foreign Affairs;
- state whether they have already been awarded an Italian scholarship for a doctoral programme;
- declare that they are not already enrolled and undertake not to enrol on any other programme for a degree, an Italian “Scuola di Specializzazione”, a Ph.D., or Master degree of the I or the II level, for the duration of this Doctoral Programme. Or alternatively, commit to stop attending such a school before the start of the Doctoral Programme;
- state whether they are an Italian public sector employee;
- commit to obtain authorization from the Doctoral School Committee before taking up any form of employment;
- commit to promptly inform the University of any changes of their residence or address.

Admitted non-EU applicants holding a non-Italian qualification and admitted EU applicants holding a non-EU qualification must also present their degree certificate along with exams taken and results, translated and authenticated by an Italian consulate, embassy or diplomatic representative in the country where the degree was issued, and the respective declaration of value (“Dichiarazione di Valore”) **within the enrolment date**.

Eligible applicants admitted to the School who do not send their application **within 15 days following the publication date of the ranking** on the web page: <http://portale.unitn.it/en/ec/phd/bs.htm>, lose the right to enrol and their corresponding position will be offered to the next candidate on the list.

Art. 10 – GRANTS

Grants are assigned based on the ranking of applicants drawn up by the Admissions Committee, on request of the applicant.

In the case of one or more externally funded scholarships, the candidates may choose what scholarship to accept according to their position on the final ranking.

The candidate who has been awarded a reserved scholarship for a specific research project cannot decline the offer.

¹ The duration of the grant should cover at least a part of the three-year period of the Doctoral Programme.

² Winners who have research grants can enroll to the Doctoral School as winners by renouncing their research grants awarded under Italian Law 449/97, art. 51 or ask to be admitted to the supernumerary places without renouncing their research grants. The choice is irrevocable.



Should the candidate decline the reserved grant, it will be offered to the next candidate on the ranking suitable for it.

The reserved grants will not be assigned in case no candidates should be suitable for them.

The gross amount of the scholarship is Euro 13,638.47 per year³.

Grants are normally paid bi-monthly and in advance, with the exception of undue payments in case the student is expelled or suspended.

Grants cannot be combined with other scholarships, except those awarded by national or foreign scientific institutes deemed appropriate for the research activities carried out by the doctoral student.

The scholarship will be increased by 50% for research periods spent abroad that are authorized by the Head of the School or by the Doctoral School Committee.

Grants are awarded for the entire duration of the program following confirmation by the Doctoral School Committee of the results achieved every year by the doctoral students.

A doctoral student's failure to attend the program for over thirty days will lead to grant suspension.

Should the candidate leave the doctoral School the candidate loses the right to get the not paid part of the scholarship.

Art. 11 – DOCTORAL STUDENTS RIGHTS AND DUTIES

Doctoral students must attend the doctorate programme and carry out research and studies on a full-time basis according to the schedules and the regulations laid out by the Doctoral School Committee, as specified in art. 3 of the present announcement.

Students participating in a co-tutelle programme are required to carry out study and research activities according to the agreement signed with the foreign University.

In case of a negative evaluation by the Doctoral School Committee regarding a student's participation in School activities and studies, the Rector can exclude him/her from the Doctoral School Programme.

Grants financed by external bodies where specific research is to be carried out, limit the grant holders to carry out that specific work for the entire duration of the Programme.

For the length of the doctorate programme, students are insured by the University against accidents and damage to third parties that occur solely in circumstances pertaining to the doctoral school programme.

From the beginning and for the duration of the doctoral school programme, a public sector employee who is accepted for a doctoral programme may request a leave of absence for reasons of study, without a stipend and may benefit from the doctoral grant, as long as conditions are met.

In the case of admission to a doctorate programme without a grant, or should the applicant not accept it, the person on leave of absence may benefit from the economic remuneration, social insurance and retirement benefits provided by the public institution where he/she is employed. Should the employee terminate employment in public office within two years from having obtained the doctoral degree, the amount paid out during the course of the doctoral studies must be claimed back.

Art. 12 – DOCTORAL TITLE CONFERRAL

The doctoral title, conferred by the Rector, is granted when students pass the final examination which takes place at the end of the doctorate programme.

Upon advice given by the Doctoral School Committee, the Examination Committee is nominated by the Rector, in accordance with the University Regulations for Doctoral Schools and it is made up as follows:

1. one internal member but the tutor;
2. two members not belonging to the University of Trento but to Italian or foreign Universities and not being part of the Doctoral School Committee.

The issuing of the degree certificate is conditional upon the candidate providing the University archive with copies of the final dissertation. The University archives will ensure public accessibility and the proper conservation of the printed thesis. The University will see to it that the National Libraries in Rome and Florence will be provided with a copy of the dissertation, as required by Italian law.

³ At the date of publication of the present call, Italian law (art. 2, §26 of Law 335/95 and subsequent modifications) states that scholarships are subject to pension fund contributions (INPS) starting from 1/01/2009, of 17% or 26,72%, of which 1/3 will be charged to the candidate.



Art. 13 – PERSONAL DATA

The University of Trento, in accordance with Legislative Decree 196/03 “Italian Personal Data Protection Code”, may use applicants’ personal data only for the purpose of selection procedures and for institutional reasons.

In observance of the above-mentioned legislative decree, participation in the selection requires the applicant to give the University of Trento permission to publish his/her personal data concerning the results of the selection procedure on the University website.

Art. 14 – REFERRAL RULE

For matters not explicitly mentioned in the present announcement, please refer to art. 4 of Law no. 210 of 3rd of July 1998, to Ministerial Decree no. 224 of 30th of April 1999 and to the University Regulations for Doctoral Schools issued with the Rector's Decree no. 937 of 16th of December 2003 and amended with the Rector's Decree no. 359 of 19th of April 2006.

Trento, 11th of June 2010

The Rector
prof. Davide Bassi

I, the undersigned, am applying to be included in the selection for the Doctorate Programme in

Biomolecular Sciences – 26th cycle

1) The candidate is required to indicate two choices among the 14 research areas (number 1 = favourite research area; number 2 =second option).

- Biochemistry
- Bioinformatics
- Bioorganic Chemistry
- Developmental Biology
- Genetics
- Lipidomics and Biomembranes
- Metabolomics and metabolic imaging
- Microbiology
- Molecular and Cellular Biology
- Nanobiotechnology
- Neurobiology
- Structural Biology
- Synthetic Biology
- System and Computational Biology

2) Indicate, if any, your preference (not binding) towards grants concerning the advisable following research topics (number 1 = first choice; number 2 =second option)

- Construction of genetically encoded in vitro sensory elements;
- Materials and surface processes for the development of label-free detection systems in molecular diagnostic applications.

3) The candidate interested in obtaining the suitability for one or more reserved scholarship must indicate the preference or the choices in order of progression (number 1 = favourite scholarship; number 2 =second option; number 3= third option). Note: The candidates awarding a reserved grant must accept it.

- Computational Functional Genomics
- The effect of fruit consumption on mammalian metabolism
- Metabolic imaging: looking fruits at the molecular leave

For this purpose I, the undersigned, declare my

SURNAME

NAME

SEX

CODICE FISCALE⁴

DATE OF BIRTH

BIRTHPLACE

Town/City

Country

M	F

PERMANENT RESIDENCE

Address			
Zip Code			Country
Tel.			Fax

ADDRESS FOR CORRESPONDENCE DURING CALL SELECTION PROCESS⁵

Address			
Zip Code			Country
Tel.			Fax
E-mail			

- **THAT I HAVE _____ CITIZENSHIP**
- **THAT I TOOK AN ITALIAN DEGREE conferred on (date) _____ with mark _____ out of _____**

in (subject)			
(Tick the Italian awarded title)	<i>Laurea vecchio ordinamento</i>	<i>Laurea specialistica</i>	<i>Laurea magistrale</i>
at the University of			

- **THAT I TOOK A FOREIGN DEGREE obtained on (date) _____ with mark _____ out of _____ (possibly expressed according to the GPA-Grade Point Average)**

in (subject)	
(Specify the awarded title: MA/MSc/BA(4 years)/BSc(4 years)/other title)	
at the University of	

- TO HOLD A FOREIGN QUALIFICATION DECLARED EQUIVALENT TO AN ITALIAN “LAUREA”⁶**

⁴ Italian tax code, only to be filled out if applicant already has one.

⁵ To be completed only if different from permanent residence address.

⁶ Official recognition is not provided by the University, it is a governmental procedure which needs to be undertaken by the interested person.

If you have already had your titles recognised in the past as equivalent to an Italian Degree, you must indicate the Italian Rector's Decree recognising equivalence number (given by Italian authorities).

Italian Rector's Decree recognizing equivalence	No.
	Date
	University of

IF NOT

I ASK the Doctoral School Committee TO RECOGNISE its equivalence to the Italian degree attaching the required documents (a translation into English of the degree certificate with exams and results obtained, signed by the applicant (or, if available, to submit their degree certificate along with exams taken and results, translated and authenticated by an Italian consulate, embassy or diplomatic representative in the country where the degree was issued and the respective declaration of value "Dichiarazione di Valore") in order to enable the Doctoral School Committee to state its equivalence, only for the purpose of being admitted to the selection procedure of this announcement)

TO HAVE NOT GRADUATED YET, and to be aware that admission to the Doctoral School is conditional upon the achieving of the degree by the 29th off October 2010⁷

currently studying (subject)			
date when you expect to receive your degree			
(for Italian degrees, tick the kind of title)	<i>Laurea vecchio ordinamento</i>	<i>Laurea specialistica</i>	<i>Laurea magistrale</i>
at the University of			

• **THAT I SPEAK ENGLISH**

(on the criteria provided by the CEFR "Common European Framework of Reference for Languages):

<input type="checkbox"/> Elementary A1, A2	<input type="checkbox"/> Intermediate B1	<input type="checkbox"/> Upper Intermediate B2	<input type="checkbox"/> Advanced C1	<input type="checkbox"/> Proficient C2	<input type="checkbox"/> First Language
------------------------------------------------------	----------------------------------------------------	----------------------------------------------------------	------------------------------------------------	--------------------------------------------------	------------------------------------------------

• **THAT I ALSO KNOW THE FOLLOWING LANGUAGES**

<input type="checkbox"/> Italian	<input type="checkbox"/> French	<input type="checkbox"/> Spanish	<input type="checkbox"/> German	<input type="checkbox"/> _____	<input type="checkbox"/> _____
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• **NUMBER OF PUBLICATIONS (Peer reviewed international journals)** _____

• **THAT I TAKE ON THE RESPONSIBILITY to immediately inform the University of any changes of my residence address, living and correspondence address.**

• **THAT I HAVE/DO NOT HAVE⁸ any disabilities (art. 4 Law 104/92) and need**

- The following assistance: _____
- and/or extra time: **YES** **NO**

• **THAT I AM AWARE AND I ACCEPT THE REGULATIONS REGARDING**

- **this call**
- **the University Regulations for Doctoral Schools**
http://portale.unitn.it/en/rr/reg_doct.htm
- **Regulations of the Doctoral School in Biomolecular Sciences**
<http://portale.unitn.it/drbs/>

Date _____

Signature _____

⁷ The candidate will have to send the certificate of the academic title (or a self-certification according to Presidential Decree no. 445 of 28.12.2000 concerning EU citizens) to the Secretariat of the Doctoral School in Biomolecular Sciences within the **3rd of November 2010**.

⁸ Cross out the item that does not correspond to you.

Form A⁹

I, (SURNAME) _____ (NAME) _____

- ask to sit the entrance examination in the country where I am residing

by phone interview

by teleconference (specify technical details: _____)

- For this purpose, I shall sit the examination at:

the University of _____

the Institute of _____

the Italian Embassy in _____

LOCATED IN

Address		No.	Zip Code
Town / City	COUNTRY		
TELEPHONE			

- I declare under my own responsibility that I will be identified by the following person:

SURNAME _____

FIRST NAME _____

QUALIFICATION /POSITION _____

DATE OF BIRTH _____

PLACE OF BIRTH _____

TELEPHONE _____

E-MAIL _____

PLEASE NOTE! the person who will identify the candidate cannot be the candidate him/herself

Date _____ signature _____

⁹ To be filled out only by candidates residing outside of Italy, who are asking the Admissions Committee for the examination to be taken by telephone or teleconference in their countries of residence.

Attachments:

Applications must include:

1. A photocopy of the applicant's identity card or passport;
2. The degree certificate, with a list of the examinations successfully passed and scores obtained in each examination.

The candidates who have a **foreign degree** that has not already been officially recognized as equivalent to the Italian degree have to attach, in addition to the above mentioned document, a translation into English of the degree certificate with exams and results obtained, signed by the applicant (or, if available, to submit their degree certificate along with exams taken and results, translated and authenticated by an Italian consulate, embassy or diplomatic representative in the country where the degree was issued and the respective declaration of value "Dichiarazione di Valore") in order to enable the Doctoral School Committee to state its equivalence, only for the purpose of being admitted to the selection procedure of this announcement.

Applicants expecting to be awarded their degree **by the 29th of October 2010** must submit a certification of the enrolment in the course of studies with a list of the examinations passed and marks obtained.

Applicants expecting to be awarded a foreign degree must submit, furthermore, a translation in English of the exams taken and scores obtained, signed under their own responsibility, valid solely for the purposes of admission to the selection process.

Then, all the applicants will be required to send the degree certificate, stating the awarding of the academic title, with the grade obtained, to the Secretariat of the Doctoral School of Biomolecular Sciences (via Sommarive 14, 38123, POVO (TN); Fax 0039 0461 283937) **within the 3rd of November 2010** or they will be excluded.

The EU citizens will be allowed to submit the required documents through a self-certification according to Presidential Decree no. 445 of 28.12.2000 concerning EU citizens).

3. Curriculum vitae et studiorum;
4. Summary of the degree's thesis, in English for foreign candidates, subdivided in: thesis motivation, investigation methods, results obtained (maximum 3000 characters, font 12, single space).

In the application the candidate **must indicate** two choices among the 14 research areas and specify the order of preference as well.

The candidate interested in obtaining the suitability for one or more reserved scholarship (1. "Computational Functional Genomics" 2. "The effect of fruit consumption on mammalian metabolism" 3. "Metabolic imaging: looking fruits at the molecular level") must indicate the interest and the suitability will be evaluated during the oral exam.

Application may include:

- Any certificates of the English language (e.g. TOEFL, Proficiency Certificate or other);
- a reference letter in English or Italian written by thesis advisor or by experts in the doctoral research areas.
- any other qualifications useful for assessment of the applicant (e.g.: scientific publications, prizes, study and post-graduate activities of research, etc.);

The required documentations for the application must be in Italian or English.

If, subsequent to the submission of their application, applicants need to add further information, this must reach the University offices **within the 30th of September 2010**, through one of the ways listed in the letter a) or b) of this article. The applicant's name, Doctoral School in Biomolecular Sciences and "Integrazione domanda" must be clearly written on the envelope.