Coordinator

Prof. Giovanni Capranico  
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Starting date of the PhD Programme

01/11/2019

Duration

3 calendar years

Language of the PhD Programme

Italian and English

Mandatory stay abroad

Yes (6 months)

Research topics

- Cancer genome instability (Prof. Capranico)
- Structures and functions of metallo-proteins (Prof. Ciurli)
- Molecular biotechnology of phages for the development of theranostic vector platforms (Prof. Danielli)
- Computational and functional genomics (Prof. Ferrè)
- Genetic factors of autism syndromes (Prof. Maestrini, Dr.ssa Bacchelli)
- Molecular basis of neurodegenerative diseases (Prof. Monti)
- Gene expression regulation in cancer (Prof. Perini)
- Cancer modeling in Drosophila (Prof. Pession)
- Mitochondria disfunctions in neurodegenerative diseases and mitochondria gene mutations in cancer (Prof. Porcelli, Prof. Ghelli)
- Molecular and genetic basis of bacterial pathogenesis (Prof. Scarlato)
- Molecular mechanisms of redox signalling and energy metabolism regulations in plants (Prof. Trost, Prof. Sparla)
- Phylogenetic and functional characterization of human and environmental microbial communities: study of the interactions between microorganisms and their habitat (Prof. Vitali)

PhD positions and scholarships

<table>
<thead>
<tr>
<th>Position n.</th>
<th>Financial support</th>
<th>Description</th>
<th>Tema vincolato</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PhD Scholarship</td>
<td>Totally funded by the University of Bologna general budget</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>PhD Scholarship</td>
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<tr>
<td>5</td>
<td>PhD Scholarship</td>
<td>Partly financed from the central budget and co-financed by the Department of Pharmacy and Biotechnology</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>PhD Scholarship</td>
<td>Financed by the Department of Pharmacy and Biotechnology with funds made available by GSK Vaccines srl&quot;</td>
<td>Exploring the potential of self-assembling nanoparticles containing structurally defined antigens</td>
</tr>
<tr>
<td>7</td>
<td>PhD Scholarship</td>
<td>Financed by the Department of Pharmacy and Biotechnology with funds made available by GSK Vaccines srl&quot;</td>
<td>Deciphering the molecular mechanisms underlying N-linked glycosylation in Gram-negative bacteria</td>
</tr>
</tbody>
</table>

Admission requirements

Please, see art. 2 of the Call for applications

Mandatory documents to be attached to the application

Please, see art. 3 of the Call for applications

Further qualifications that may be attached to the application, if in possession of the applicant (only qualifications attested by documents drawn up in Italian, English, French, German and Spanish shall be considered as valid and assessed by the Admission Board)

- Motivational letter. This must include the reasons prompting the applicant to attend the PhD Programme and those relevant experiences and research interests, that make the applicant suitable for the specific PhD Programme (3000 characters maximum, including spaces).
- List of the publications (monographs, articles published on scientific journals, volume’s chapters).
- List of the minor publications (national and international conference papers, etc.).
- List of the abstracts and posters presented during national and international conferences, etc.).
- Professional Master courses completed in Italy (1st or 2nd level) relevant to the PhD Programme.
- Research activity of any kind - whether basic, applied, translational, etc. - carried out in any capacity, including when covered by research grants, and as a staff member of research projects.
- Study periods completed by students outside their countries of origin (e.g. Erasmus programme or other similar mobility programmes).
- Other qualifications attesting the suitability of the applicants (scholarships, prizes, etc.).

## Admission exams (art. 4 of the call for applications)

<table>
<thead>
<tr>
<th>Examination type</th>
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<th>Pubblicazione dei risultati delle prove (i candidati non riceveranno alcuna comunicazione sui risultati delle prove)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Evaluation of qualifications</strong></td>
<td>Non-presential.</td>
<td>The results of the evaluation of qualifications shall be available online starting from the 24/06/2019 at the page <a href="http://studenti.unibo.it">http://studenti.unibo.it</a> (please, select: (please, select &quot;summary of the requests in progress&quot; - “see detail” and open the pdf file “risultati valutazione titoli&quot;)</td>
</tr>
<tr>
<td><strong>Date</strong></td>
<td>01/07/2019</td>
<td>In case that the oral examination cannot be completed in one day due to the large number of applicants, the oral exam schedule shall be made available at the webpage <a href="http://studenti.unibo.it">http://studenti.unibo.it</a> together with the results of the evaluation of qualifications. The results of the oral examination shall be available on the webpage <a href="http://studenti.unibo.it">http://studenti.unibo.it</a> starting from 11/07/2019 (please, select &quot;summary of the requests in progress&quot; - “see detail” and open the pdf file “risultati prova orale&quot;)</td>
</tr>
<tr>
<td><strong>Place</strong></td>
<td>Bologna – Via Selmi 3 Pharmacy and Biotechnology Department - FaBiT Aula FARBIOMOT</td>
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<tr>
<td><strong>Time</strong></td>
<td>09:30.</td>
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</table>

Applicants can ask to take the exam remotely using Skype. For further details please refer to the relevant provision laid down in art. 4 of the Call for applications.

## Evaluation criteria

Points will be allocated to applications out of a total of 100 on the basis of the following weighting:

1. **Qualifications**
   - Minimum for admission to the oral exam: 30 points
   - Maximum: 50 points

   Only qualifications relating to the last 5 calendar years prior to the calendar year of publication of the Call for applications shall be taken into consideration, with the exception of the University Degree (Diploma di laurea). Please, note that qualifications must be consistent with the PhD Programme.

   Points relating to qualifications shall be allocated on the basis of the following criteria:
   - Graduation final mark. Undergraduates shall be evaluated on the basis of the Weighted Average Mark (WAM): max 40 points
   - Publications: max 7 points
   - Other qualifications: max 3 points

2. **Oral examination**
   - Minimum for inclusion in the final ranking list: 30 points
   - Maximum: 50 points

   Oral examination is intended to assess the suitability of the applicant in respect of the pursuing of scientific research as well as the general knowledge of issues connected to the PhD Programme. During the oral examination, knowledge of English language shall be assessed.

   The oral examination is carried out in Italian.

   Points relating to the oral examination shall be allocated on the basis of the following criteria:
   - knowledge of the English language: max 5 points
   - general knowledge of issues connected to the PhD Programme: max 45 points

Possible evaluation sub-criteria will be available on the [Unibo website](http://studenti.unibo.it), selecting the relevant PhD Programme → “PhD programme information” at the bottom of the page in the section “Notices”.

## Final ranking list and enrolment (arts. 6 and 7 of the Call for applications)
After the publication of the results of the oral exam, the final ranking list will be available on the Unibo website, selecting the relevant PhD Programme → “PhD programme information” at the bottom of the page in the section “Notices”. Following the publication of the final ranking list, successful applicants must enroll on http://studenti.unibo.it by the deadline indicated on the Unibo website, selecting the relevant PhD Programme → “PhD programme information”.