Coordinator: Prof. Arcangelo Gentile  
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arcangelo.gentile@unibo.it

Starting date of the PhD Programme: 01/11/2019

Duration: 3 calendar years

Language of the PhD Programme: Italian

Mandatory stay abroad: Yes (6 months)

Curricula

<table>
<thead>
<tr>
<th>Research topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Basic Sciences</td>
</tr>
<tr>
<td>2. Animal Production and Food Safety</td>
</tr>
<tr>
<td>3. Animal Health</td>
</tr>
<tr>
<td>4. Clinical Sciences</td>
</tr>
</tbody>
</table>

PhD positions and scholarships

<table>
<thead>
<tr>
<th>Position n.</th>
<th>Financial support</th>
<th>Financial support</th>
<th>Description</th>
<th>Curriculum</th>
<th>Positions linked to research subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PhD Scholarship</td>
<td>Totally funded by the University of Bologna general budget</td>
<td>1 Basic Sciences</td>
<td>Phylogenetic analysis of Protostrongylidae nematodes for the characterisation of European hare populations (Lepus europaeus) under different conditions of reproductive isolation</td>
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<tr>
<td>2</td>
<td>PhD Scholarship</td>
<td>Financed by the University of Bologna general budget by funds from the 5x100 campaign 2016</td>
<td>1 Basic Sciences</td>
<td>Development of a pig model for the evaluation of mammary clearance of exogenous molecules taken in lactation</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PhD Scholarship</td>
<td>Totally funded by the University of Bologna general budget</td>
<td>2 Animal Production and Food Security</td>
<td>Sustainable and resilient aquaculture to address the impact of climate change and the dynamics of the circular economy</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>PhD Scholarship</td>
<td>Totally funded by the University of Bologna general budget</td>
<td>3 Animal Health</td>
<td>Histopathological diagnostic profile with biomolecular integration in diseases of farm animals caused by biological agents</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>PhD Scholarship</td>
<td>Totally funded by the University of Bologna general budget</td>
<td>3 Animal Health</td>
<td>Research on the role of wild and peridomitable animals as a potential reservoir of Leishmania infantum in epidemic mouths of human leishmaniasis in Emilia-Romagna</td>
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<tr>
<td>6</td>
<td>PhD Scholarship</td>
<td>Totally funded by the University of Bologna general budget</td>
<td>4 Clinical Sciences</td>
<td>Internal Veterinary Medicine</td>
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</tr>
<tr>
<td>7</td>
<td>PhD Scholarship</td>
<td>Totally funded by the University of Bologna general budget</td>
<td>4 Clinical Sciences</td>
<td>Use of prosthetic nets in support of simple perineal herniorrhaphy in the treatment of dog perineal hernia</td>
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<tr>
<td>8</td>
<td>PhD Scholarship</td>
<td>Partly financed from the central budget and co-financed by the Department of Veterinary Medical Sciences</td>
<td>4 Clinical Sciences</td>
<td>Prevalence and prognostic importance of procalcitonin evaluated in laparotomy in horses undergoing exploratory celiotomy for acute abdomen</td>
<td></td>
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<tr>
<td>No.</td>
<td>PhD Scholarship</td>
<td>Status</td>
<td>Main Research Area</td>
<td>Specific Research Theme</td>
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<tr>
<td>9</td>
<td>financed by MIUR under the &quot;Departments of Excellence&quot; initiative</td>
<td>2 Animal Production and Food Security</td>
<td>Food and non-food transmissible pathogens to humans: diagnostic approaches aimed at reducing antibiotic resistance</td>
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<tr>
<td>10</td>
<td>financed by MIUR under the &quot;Departments of Excellence&quot; initiative</td>
<td>3 Animal Health</td>
<td>Study of aquatic animal health for the development and innovation of the aquaculture and fisheries sector</td>
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<tr>
<td>11</td>
<td>financed by MIUR under the &quot;Departments of Excellence&quot; initiative</td>
<td>1 Basic Sciences</td>
<td>Anatomy and histology of the digestive system of fish species of commercial interest reared in the Mediterranean Sea</td>
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<tr>
<td>12</td>
<td>financed by MIUR under the &quot;Departments of Excellence&quot; initiative</td>
<td>3 Animal Health</td>
<td>Integration of traditional molecular methods, next-generation sequencing (NGS) and MALDI-TOF to improve the diagnostic performance of communicable diseases in disease animals</td>
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<tr>
<td>13</td>
<td>financed by MIUR under the &quot;Departments of Excellence&quot; initiative</td>
<td>4 Clinical Sciences</td>
<td>Regenerative and translational medicine in spontaneous pathologies of the newborn equine: creation of a biobank of biological and clinical materials, development of innovative biomolecular diagnostic techniques and study of new therapeutic protocols aimed at stimulating self-repair.</td>
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<tr>
<td>14</td>
<td>financed by MIUR under the &quot;Departments of Excellence&quot; initiative</td>
<td>4 Clinical Sciences</td>
<td>Study of advanced diagnostic methods (contrast ultrasound, transesophageal echocardiography, angiography, cardioTC and angioTC) with the application of innovative mini-invasive treatment techniques for the diagnosis and interventional support of congenital and acquired cardiovascular diseases of small animals (dogs and cats).</td>
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<tr>
<td>15</td>
<td>financed by MIUR under the &quot;Departments of Excellence&quot; initiative</td>
<td>4 Clinical Sciences</td>
<td>International legislation on health, animal welfare and food safety</td>
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<tr>
<td>16</td>
<td>financed by Vetagro S.p.A.</td>
<td>2 Animal Production and Food Security</td>
<td>The role of biologically active substances and phytonutrients on intestinal functionality</td>
<td></td>
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</tr>
<tr>
<td>17</td>
<td>financed by Vetagro S.p.A.</td>
<td>2 Animal Production and Food Security</td>
<td>The role of biologically active substances and phytonutrients on intestinal functionality</td>
<td></td>
<td></td>
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<tr>
<td>18</td>
<td>funded under the three-year High Competence Plan for research, technology transfer and entrepreneurship (POR FSE funds – Resolution n. 462 of 25/03/2019). The assignment of this scholarship is subject to the declaration of residence or domicile of the scholarship holder in Emilia-Romagna.</td>
<td>2 Animal Production and Food Security</td>
<td>Digital Dairy cows: From farm’s data to Welfare and Production optimization</td>
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<td></td>
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<tr>
<td>19</td>
<td>financed by Vetagro S.p.A.</td>
<td>1 Basic Sciences</td>
<td>In vivo pharmacology</td>
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</tr>
</tbody>
</table>

**Positions linked to specific research subjects:** Each position is reserved for one of the four PhD Programme Curricula and devoted to the development of a specific research subject. During the oral test, applicants may express their interest in one or more positions linked to specific subject, in compliance with the Curriculum selected when filling the application form. Considering the expressions of interest above, the Admission Board shall express its view on the suitability of the interested applicants, taking into account their specific skills, experience and aptitudes. In doing such an assessment, the Board shall also take into consideration the information included in the research project attached to the application. The above positions - and possible replacement positions - shall be awarded on the basis of the sub-ranking lists relating to
the specific research subject, as drawn up by the Admission Board.

Possible remaining positions linked to specific research subject shall be proposed to eligible applicants on the basis of the sub-ranking lists relating to the Curricula covering every single specific research subject. Secondly, possible remaining positions linked to specific research topics shall be proposed to eligible applicants, irrespective of the Curriculum chosen.

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)

- Abstract of the second cycle master’s degree thesis. Undergraduate applicants may submit the draft of the thesis approved by their supervisor (please, note that abstracts cannot exceed 5,000 characters, including spaces and formula possibly used. The above figure does not include: the title of thesis, the outline, and images such as graphs, diagrams, tables etc. - where present);
- Multi-annual research project, with special emphasis on the activities to be completed during the first-year course. The proposal must meet the following requirements:
  o It must indicate in the cover page the research topic of the PhD Programme covered by the research project proposal and for which the applicant is applying (Projects without this indication will not be evaluated);
  o It cannot exceed 20,000 characters, including spaces and formula possibly used. This figure does not include: the title of project, the outline, references and images (such as graphs, diagrams, tables etc - where present);
  o It must include: the state of the art; description of the project; expected results; lead-time for implementation; (proposed) criteria to be used to assess the findings obtained; references.
  The research projects that successful applicants shall carry out during their doctoral career may possibly differ from the project proposed at the application stage. This shall be defined together with the supervisor and approved by the Academic Board.
- List of the publications (monographs, articles published on scientific journals, book’s chapters).
- List of the minor publications (conference papers, etc.).
- List of the abstracts and posters presented during national and international conferences, etc.

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

<table>
<thead>
<tr>
<th>Examination type</th>
<th>Schedule (please, note that applicants shall not receive any communication concerning the exams schedule)</th>
<th>Examination results publication (please, note that applicants shall not receive any communication concerning the publication of results)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualifications and research project evaluation</td>
<td>Non-presential.</td>
<td>The results of the qualifications and research project evaluation shall be available online starting from the 17/06/2019 at the page <a href="http://studenti.unibo.it">http://studenti.unibo.it</a> (please, select: (please, select “summary of the requests in progress” - “see detail” and open the pdf file “risultati valutazione titoli e progetto”)</td>
</tr>
<tr>
<td>Oral examination</td>
<td>Date 03/07/2019 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 qualifications and research project evaluation</td>
<td>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 10/07/2019 (please, select “summary of the requests in progress” - “see detail” and open the pdf file “risultati prova orale”)</td>
</tr>
<tr>
<td></td>
<td>Place Ozzano dell’Emilia (BO) - Via Tolara di Sopra 50 Dip. di Scienze Mediche Veterinarie Aula Borgatti</td>
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<td></td>
<td>Time 9.30 a.m.</td>
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</tbody>
</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 and research project**
   - 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 10 points
   - Publications and other qualifications: max 5 points
   - Points relating to the research project shall be allocated on the basis of the following criteria:
     - scientific value and ground-breaking nature of the proposal: max 15 points
     - description and structure of the proposal: max 10 points
     - proposal feasibility: max 10 points

2. **Oral examination**
   - Minimum for inclusion in the final ranking list: 30 points
   - Maximum: 50 points
   Oral examination includes the presentation of the research project and 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 or in English.
   - Points relating to the oral examination shall be allocated on the basis of the following criteria:
     - knowledge of the English language: max 5 points
     - research project presentation: max 20 points
     - general knowledge of issues connected to the PhD Programme: max 25 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](http://studenti.unibo.it), 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 enrol on [http://studenti.unibo.it](http://studenti.unibo.it) by the deadline indicated on the [Unibo website](http://studenti.unibo.it), selecting the relevant PhD Programme → “PhD programme information”.