

PHD PROGRAMME TABLE 37TH CYCLE

Section "Available Positions and Scholarship" integrated on 29/04/2021

Section "Available Positions and Scholarship" integrated on 06/05/2021

Section "Available Positions and Scholarship" modified on 20/05/2021

Section "Available Positions and Scholarship" modified on 11/06/2021

PROGRAMME'S NAME	ONCOLOGY, HEMATOLOGY AND PATHOLOGY
DURATION	3 years
PROGRAMME START DATE	01/11/2021
LANGUAGE	Italian, English
MANDATORY STAY ABROAD	3 months
COORDINATOR	Prof. Manuela Ferracin (manuela.ferracin@unibo.it)
CURRICULA	N/A
RESEARCH TOPICS	Detailed list at the bottom of the present document
PhD POSITIONS	24
ADMISSION PROCEDURE	Qualifications evaluation Oral examination

Available Positions and Scholarships

Pos. n.	Financial Support	Description	Positions linked to research topics
1	PhD Scholarship	Totally funded by the University of Bologna general budget	
2	PhD Scholarship	Totally funded by the University of Bologna general budget	
3	PhD Scholarship	Totally funded by the University of Bologna general budget	
4	PhD Scholarship	Totally funded by the University of Bologna general budget	
5	PhD Scholarship	Totally funded by the University of Bologna general budget	
6	PhD Scholarship	Totally funded by the University of Bologna general budget	
7	PhD Scholarship	Funded by the University of Bologna general budget and the Department of Experimental, Diagnostic and Specialty Medicine	Differentiation of perinatal stem cells into insulin-producing beta-pancreatic cells
8	PhD Scholarship	Funded by the University of Bologna general budget and the Department of Experimental, Diagnostic and Specialty Medicine	Novel prognostic and therapeutic approaches in elderly patients with acute myeloid leukemia
9	Intersectoral PhD	Position reserved for employees of Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori "Dino Amadori" - IRST S.r.l. IRCCS	
10	Intersectoral PhD	Position reserved for employees of Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori "Dino Amadori" - IRST S.r.l. IRCCS	
11	Intersectoral PhD	Position reserved for employees of Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori "Dino Amadori" - IRST S.r.l. IRCCS	

12	Intersectoral PhD	Position reserved for employees of Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori "Dino Amadori" - IRST S.r.l. IRCCS	
13	Research Grant	Provided by the Department of Experimental, Diagnostic and Specialty Medicine. Th research grant will have a duration of 12 months, renewable up to 36 months, and a gross percipient amount of € 20,354.99	Genomics, transcriptomics and metabolomics in trisomy 21
14	PhD Position without Scholarship		
15	PhD Position without Scholarship		
16	PhD Position without Scholarship		
17	Intersectoral PhD	Position reserved for employees of ARPAE Agenzia Regionale per la Prevenzione, Ambiente e Energia dell'Emilia-Romagna	
18	Intersectoral PhD	Position reserved for employees of Azienda Provinciale per i Servizi Sanitari – Provincia Autonoma di Trento	
19	Intersectoral PhD	Position reserved for employees of Azienda Provinciale per i Servizi Sanitari – Provincia Autonoma di Trento	
20	Intersectoral PhD	Position reserved for employees of Azienda Provinciale per i Servizi Sanitari – Provincia Autonoma di Trento	
21	PhD Position without Scholarship		Development of predictive models in interventional radiotherapy
22	PhD Position without Scholarship		Metagenomic and metabolomic characterisation of the nutritional profile in paediatric patients undergoing chemotherapy
23	PhD Scholarship	Funded by IRCCS Istituto Ortopedico Rizzoli	Impact of DNA repair mechanisms in osteosarcoma progression
24	PhD Scholarship	Funded by IRCCS Istituto Ortopedico Rizzoli	Analysis and validation of genetic polymorphisms in osteosarcoma

Admission Exams

	DATE AND TIME	RESULTS
Qualifications evaluation	Applicants' participation is not required	Available from 10/06/2021**
Oral examination	Date: starting from 24/06/2021 – 9:00 a.m. CEST* Place: Remotely, using Microsoft Teams	Available from 30/06/2021**

* In case that the oral examination cannot be completed in one day due to the large number of applicants, the oral examination detailed schedule shall be made available on the webpage [Studenti Online](#) together with the results of the qualifications evaluation. **During the oral examination applicants may express their interest in the topic-specific positions.**

** The **results of the admission exams** will be available on the webpage [Studenti Online](#) (select “summary of the requests in progress” > “see detail” and open the .pdf file at the bottom of the page. **No personal written communication will be sent to applicants concerning the examinations results.**

Required and Supporting Documents to be attached to the application

(only documents in Italian, English, French, German and Spanish shall be considered as valid and be assessed by the Admission Board)

Only qualifications obtained during the last 5 calendar years shall be taken into consideration, except for the University Degree. The Admission Board will assess the relevance of the supporting documents to the PhD Programme.

REQUIRED DOCUMENTS	
Identity document	Valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae	No specific CV format is required
Degrees	Documents attesting the awarding of the first and second cycle degrees, the exams taken and the marks obtained (see Art. 3 of the Call for Applications). Please, upload together with the second-cycle degree certificate, the Attachment 1 form, duly filled, including the weighted average of the exam marks (WAM).
SUPPORTING DOCUMENTS	
Thesis abstract	Abstract of the second cycle degree thesis . Graduands may submit the draft of their thesis (abstracts cannot exceed 5.000 characters, including spaces and formulas, if present. The above figure does not include: title, outline, images such as graphs, diagrams, tables etc. if present)
Personal Statement	The statement shall 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).
Reference Letter/s	No more than 2 reference letters signed by Italian and/or International academics and professionals in the research field, which do not form part of the Admission Board, attesting the suitability of the applicant and his/her interest for the scientific research. Letters shall be drawn up according to the attached form n.2 (the same form can be downloaded in .docx from the the University website , selecting the relevant PhD Programme > “More information”, section “Notices” at the bottom of the page) and shall be uploaded following the procedure on Studenti Online , detailed in the Call for Applications (Art. 3.2).
Publications	List of publications (i.e. monographs, articles on scientific journals, volume chapters), minor publications (conference papers, etc.) and abstracts and posters presented during academic conferences
Other documents	Language proficiency certificates

Evaluation criteria *

Scores will be expressed in points out of 100, as follows.

1. Qualifications evaluation

Minimum score for admission to the oral examination: 30 points, Maximum score: 50 points

Weighted Average Mark (WAM) referred to the University studies	25 points max
Publications	7 points max
Coherence between the master’s degree thesis – for graduands thesis draft - and the topics covered by the PhD programme	10 points max
Reference letter/s	5 points max
Personal statement	3 points max

2. Oral examination

Minimum score for eligibility: 30 points, Maximum score 50 points

English proficiency	10 points max
General knowledge of issues encompassed by the PhD Programme	40 points max

Oral examination aims to assess the suitability of the applicant for scientific research as well as the general knowledge of issues encompassed by the PhD Programme ([see the list of research topics at the bottom of the present document](#)).

During the oral examination, English language proficiency shall be assessed. The oral examination is carried out in Italian or in English.

*Possible further evaluation criteria will be available on the [University website](#), selecting the relevant PhD Programme > “More information”, at the bottom of the page in the section “Notices”.

Final Ranking List and Enrollment

Considering the expressions of interest for **topic-specific positions only** (Art. 9 of the Call for Applications), the Admission Board will establish if the applicants can be considered eligible for the allocation of the said positions, taking into account their skills, experience and aptitude. Topic-specific positions will be awarded according to a sub-ranking list of eligible applicants.

After the publication of the results of the oral examination, the **final ranking list** will be available on the [University website](#), selecting the relevant PhD Programme > “More information”, section “Notices” at the bottom of the page.

Following the publication of the final ranking list, successful applicants shall **enroll** on [Studenti Online](#) by the deadline indicated on the [University website](#), selecting the relevant PhD Programme > “More information”.

If a successful applicant withdraws from a position, the following applicant in the ranking list, who is also eligible for the specific position, will be contacted. During the replacement procedure, the new terms of enrollment shall be communicated via e-mail to the chosen applicant.

Research Topics

- Immunoprevention and immunotherapy of tumors
- Oncology, genomics, proteomics and targeted therapy of musculoskeletal sarcomas
- Development of new therapies, biological and cellular therapies in pediatric onco-hematology (neuroblastoma, acute myeloid leukemia, leukemias and lymphomas of B cells)
- Radiotherapy, oncological radiodiagnostics, radiomics and radiobiology
- Rare tumors
- ERBB family receptors
- Resistance to targeted therapies
- Acute and chronic myeloproliferative syndromes
- Lympho(immuno) proliferative diseases, monoclonal gammopathies and multiple myeloma
- Molecular basis, genetic studies, and development of innovative and targeted drugs against adult onco-hemopathies (acute and chronic leukemias, lymphomas and multiple myeloma)
- Molecular pathology of infections associated with implants: search of virulence factors of opportunistic microorganisms as etiologic agents of periprosthetic infections and pathogenic mechanisms
- Cytotoxic mechanisms of plant toxic enzymes and development of immunotargeting for experimental therapy in oncology and transplant rejection
- Alterations of protein glycosylation in pathological processes
- Changes in ribosome biogenesis, cell proliferation and tumorigenesis
- Immunology, genetics and epigenetics of aging, longevity and age-associated diseases
- Allelic polymorphisms to identify risk factors associated with dementia and Alzheimer disease
- Chronic pain
- OMIC- data analysis
- Genetic and epigenetic alterations as cancer diagnostic or prognostic biomarkers
- Role of non-coding RNA in human cancer
- Shiga toxin and hemolytic uremic syndrome
- Human genomics and transcriptomics in normal conditions and in genetic disorders
- Stem cells, differentiation and development
- Nutrition, microbiota and cancer
- Asbestos and cancer
- Chemo-immune therapy toxicity control

ATTACHMENT N. 1

REQUIRED INFORMATION

(to be attached to the second level degree's certificate)

Surname _____ Name _____ Date of birth _____

EDUCATION

Bachelor's Degree (or equivalent first cycle degree)

Programme's name: _____

Programme's type (es. Bachelor's degree, ...): _____

Awarding institution: _____

Degree final mark: _____ (Highest possible mark: _____)

Master's Degree or Single cycle degree (or equivalent second cycle degree)

Programme's name: _____

Programme's type (es. Master's degree, ...): _____

Awarding institution: _____

Degree final mark: _____ (Highest possible mark: _____)

(except for graduands)

WEIGHTED AVERAGE MARK (WAM): _____

Please, consider marks obtained during the whole university career

(i.e. Exams passed during the First cycle programme + exams passed during the Second cycle programme
OR Exams passed during the Single-cycle programme)

only for applicants submitting degrees awarded by Italian Higher Education Institutions

To calculate the **media ponderata** (weighted average mark):

1. Multiply the marks obtained by the number of CFUs (please, note that "30 e lode" is regarded as 30);
2. Add up all the obtained results;
3. Divide the result by the total of the CFUs;
4. Multiply the obtained average by 110 and then divide by 30.

Riferimento del Candidato/a e del Referente Applicant and Referee details			
Nome del Candidato <i>Name of Applicant</i>			
Corso di Dottorato per cui ha presentato domanda <i>PhD Course for which the applicant has applied</i>			
Nome del Referente <i>Name of Referee</i>		Titolo Title	
Affiliazione <i>Institution /Organisation</i>			
Email			
Phone			

Reference for graduate application						
<i>Il Coordinatore del Corso di Dottorato apprezzerrebbe una sua valutazione del candidato</i> <i>The Coordinator of the PhD Course will appreciate your evaluation of the applicant's capacity.</i>						
Per quanto tempo ha supervisionato il Candidato/a <i>How long have you known the applicant?</i>						
In quale veste ha conosciuto il candidato <i>In what capacity have you known the applicant?</i>						
Per favore, valuti il Candidato confrontandolo con altri studenti da lei supervisionati (laureandi dal vostro istituto o attuali studenti senior presso l'istituto): <i>Please rate the applicant in comparison with other students known to you (either undergraduates from your institution or current senior students at your institute):</i>						
ATTITUDINE ALLA RICERCA/RESEARCH SKILLS	Top 2%	Top 5%	Top 10%	Top 25 %	Top 50 %	Bottom 50%
Potenziale Accademico / Academic potential						
Capacità di ragionare in modo indipendente: creatività, curiosità, fiducia nelle proprie idee <i>Intellectual independence: creativity, curiosity, self-confidence</i>						
Capacità di giudizio: capacità di valutare una problematica, consapevolezza, determinazione <i>Capacity for analytical thinking: ability to analyse a problem, consciousness and determination.</i>						
Attitudini alla ricerca: capacità pratiche e di comunicazione <i>Research skills: bench work, scientific communication</i>						
Motivazione / Motivation for graduate study						
SOCIALE/SOCIAL	Top 2%	Top 5%	Top 10%	Top 25%	Top 50%	Bottom 50%
Maturità / Maturity						
Affidabilità: senso di responsabilità <i>Reliability: dependability and responsibility</i>						
Capacità di lavorare in gruppo <i>Ability to work with others</i>						
Note: Non compilare se impossibilitati ad esprimere un giudizio <i>Note: leave blank if unable to assess</i>						

Firma/Signature:

Data / Date:

Per favore, scriva un giudizio sul Candidato/a e sull'esperienza nell'ambito della ricerca (se preferisce può scrivere una lettera su carta intestata e allegarla al presente modulo)
Please write an assessment of the Candidate and his/her research activity (you may write a separate letter and attach it to this form):

Firma/Signature:

Data / Date:

La ringraziamo per la sua valutazione

Thank you for completing this evaluation.

Per favore, inviare la valutazione entro il..

Please return this form within ...

La valutazione deve essere caricata sul sito tramite il link ricevuto via email.

You must upload the reference letter on the website through the link received in the email