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This call regulates the application procedure for the PhD Course in Data Science in Medicine (DASME) for the academic year 2024/2025, corresponding to the XL cycle of PhD programmes run in accordance with current legislation.

The actual activation of the doctoral positions with scholarships from PNRR funds under M.D. N. 630/2024 (CUP G43C24000930008), shown in the annex, is conditional on the completion of the procedure for the allocation of these funds by the MUR.

The Course is organised by Humanitas University in collaboration with IRCCS Humanitas. The Course is made up of the following Curricula:

1. DASME Curriculum;
2. DASME-Clinical Curriculum.

There are 5 places available, all covered by scholarships or equivalent forms of financial support provided via research funding or other sources of funding from partnering bodies, also relating to the - (h) ) . The type and source of funding is described below and in the research Topic sheets. Any position activated on PNRR funds under M.D. N. 630/2024, will be considered as additional.

The number of available places covered by PhD scholarships or equivalent forms of financial support may increase in the event that additional funding becomes available.

Admission to the PhD Course is granted to candidates passing the selection process within the limit of available places, which are assigned according to their position in the ranking list and their individual curriculum preferences.

Specific agreements made before the beginning of the Course may allow members of staff working for public or private research institutions or for businesses involved in carrying out high-level scientific activities to be admitted to the PhD Course, whilst maintaining their earnings paid by the institution to which they belong (known as Executive PhDs). For further information, please refer to the ranking list relating to the admissions procedure for this call.

Candidates admitted to the Course will be assigned research topics on the basis of the ranking list and their choice of curriculum and this will take into account any specific skills required to develop the research topic and/or requirements indicated by the body which has granted the research funding. Candidates passing selection procedures carried out by external bodies or organisations which have signed specific research agreements with the University and/or IRCCS Humanitas providing for access to the PhD Programme may be admitted to the Course even when the enrolment quota has been reached. The legal duration of the PhD programme in Data Science in Medicine is 3 years.

The XL cycle of the DASME PhD programme is scheduled to begin on December 1<sup>st</sup> 2024.

The official language of the course is English.

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The programme of the PhD Course in Data Science in Medicine covers the scientific and disciplinary areas listed below and is based on two curricula: DASME and DASME-Clinical.

The DASME curriculum provides for research activities to develop along, yet not remain limited to, the following main areas, which include: oncological immunopathology, molecular cardiometabolics, genetics, neurosciences. An overall vision of regenerative and precision medicine is the theme running throughout the programme, together with different and innovative approaches to big data analysis. The curriculum provides specific training for enabling technologies, such as imaging, flow cytometry, genomics and bioinformatics.

The DASME-Clinical curriculum aims to combine basic or clinical experimental research activities with clinical practice involving patient enrolment and assessment in specific trials. The course provides for ordinary clinical practice in the hospital under the supervision of a clinical tutor (up to a maximum of 20 hours per week) and experimental laboratory activities under the supervision of a second tutor, which include but are not limited to cellular and molecular biology, information technology, immunology and the use of preclinical models. Candidates will be directly responsible for research projects approved by their clinical supervisor and/or laboratory head.

For both curricula the PhD will be conducted in a stimulating cultural and scientific environment involving the organi





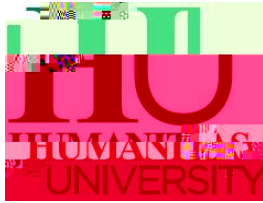
- 6/S Biology
- 7/S Agrarian Biotechnologies
- 8/S Industrial Biotechnologies
- 9/S Medical, Veterinary and Pharmaceutical Biotechnologies
- 14/S Pharmacy and Industrial Pharmacy
- 23/S Computer Science
- 26/S Biomedical Engineering
- 27/S Chemical Engineering
- 46/S Medicine and Surgery
- 47/S Veterinary Medicine
- 52/S Dentistry and dental prosthetics
- 61/S Materials Science and Engineering
- 68/S Natural Sciences
- 69/S Human Nutrition
- 77/S Agrarian Science and Technology
- 78/S Food Science and Technology
- 81/S Industrial Chemistry Science and Technology
- 92/S Experimental Research and Statistics

The Selection Committee appointed to examine applications for admission to the Doctoral Program will consider the possibility of admitting to the selection candidates with a master's degree obtained in classes other than those indicated above, taking into account whether the degree course provides the advanced technical skills required for the doctoral course.

Applicants who are waiting to be awarded the required qualification at the date of submission can also take part in the selection process providing that they have passed all of the Degree course exams or equivalent study programmes at the time of the online application and are awarded the qualification by November 30<sup>th</sup> 2024. All candidates are required to submit a proof of the awarded qualification even writing a self-declaration by the above-mentioned deadline.

2.2 Candidates wishing to enrol on the PhD Course in Data Science in Medicine DASME-Clinical Curriculum must:

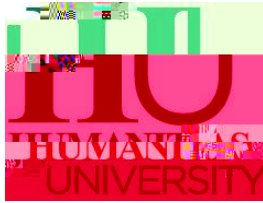
- be enrolled on the Medical Register;
- already possess a specialist medical qualification;



Applications for the DASME-Clinical curriculum will also be accepted from doctors in specialist training. If these candidates pass the selection process, in accordance with what is indicated in Article 5 below, can enroll in the PhD course upon the issuance of the positive opinion of the board of the medical specialization school in which they are enrolled and of the PhD board.

Further information regarding the equivalence and/or equalization of Italian academic qualifications please consult: <http://www.miur.gov.it/equipollenze-ed-equiparazioni-tra-titoli-accademici-italiani1>.

The equivalence of a foreign academic qualification is evaluated by the Committee appointed to assess applications for admission to the PhD Course in accordance with current legislation in Italy and the country where the qualification itself was awarded, as well as with international treaties or agreements pertaining to the recognition of the qualification.



The references received will be used for the purposes of assessing the applicant.

References supplied by different means from those indicated will not be accepted and after July 4<sup>th</sup> 2024 at 1pm Italian time.

The PhD Office is not required to solicit the dispatch of references.

Applicants are required to pay a fee for the amount of 30.00 for the selection process via bank draft, on penalty of exclusion, to the BANCA INTESA SAN PAOLO S.P.A. bank account IBAN: IT10K0306909606100000102343 BIC CODE: BCITITMM made out to Humanitas University and must indicate the following reference:





6. released by the University where the candidate achieved the academic title required to access the PhD program (failure to submit the certificate due to non-receipt by the home university and duly notified to the doctoral office by writing to [phd@hunimed.eu](mailto:phd@hunimed.eu) will not result in a penalty);

7.

The submission of the admission application must be completed by printing and signing the electronic form filled in by the applicant. The signed form in PDF format must then be uploaded in the designated area of the online form.

Applicants failing to submit one or more documents listed above in points 1 – 5 will be excluded from the selection process.

In addition to the documentation specified above, the university reserves the right to request a copy of the qualifications and/or publications indicated by the applicant.

Admission to the PhD Programme is based on a selection process which assesses qualifications and an interview carried out by a Commission appointed by decree of the Rector consisting of a maximum of seven members.

The aim of the selection process is to assess the knowledge, skills and aptitudes of applicants for scientific or translational research, as well as their reasons for wishing to undertake a PhD Programme. The assessment of these elements is based on the evaluation of the documentation submitted by the applicants and an interview designed to establish whether candidates possess the specific basic skills needed to carry out the research projects indicated in the application, also through the discussion of an article which will be indicated prior the interview.

Only those candidates ranking in the first 25 positions and those that have obtained *ex equo* in final position based on the assessment of the curriculum and qualifications will pass to the interview phase.

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university career, any publications submitted, professional and laboratory experience and periods of study or research with foreign universities and research bodies, together with the references provided by the Referees who the candidate











with concurrent attendance at a medical specialty school. Those positions can also not be assigned to



Students may request a temporary suspension from the PhD programme in the event of serious and justified personal reasons. A suspension in attendance for a period of more than thirty days will result in the scholarship being suspended.

Any absences without prior notification and authorisation may represent grounds for expulsion from the PhD Programme.

The PhD qualification, abbreviated as: "Dott.Ric." or "Ph.D.", will be awarded by Humanitas Unipn

