

Dir. DF/FTLI

### THE RECTOR

- Having regard to Italian Ministerial Decree no. 270, dated 22 October 2004, entitled “Amendments to Regulation no. 509 containing rules governing the educational autonomy of Universities, passed by a Decree of the Ministry for Universities and Scientific and Technological Research on 3 November 1999”;
- Having regard to article 4 of Italian Law no. 210 dated 3 July 1998, as amended by art. 19, paragraph 1, of Italian Law no. 240 dated 30 December 2010;
- Having regard to Italian Ministerial Decree no. 226 dated 14 December 2021, entitled “Regulations concerning the accreditation methods of doctoral locations and programmes and the criteria for the institution of doctoral programmes by accredited bodies”;
- Having regard to the University Regulation for PhD Programmes and Students, issued by Rector’s Decree of 5 June 2015, as subsequently amended;
- Having regard to the resolutions adopted by the Academic Senate at its meeting of 13 December 2022 and by the Board of Directors at its meeting of 20 December 2022, concerning institution of the 39<sup>th</sup> doctoral cycle;
- Considering that, in the calls regarding public competitions for admission to Doctoral Research Programmes at the University of Milan a. y. 2023/2024 issued by Rector’s Decrees filed as record no. 3288/2023 of 23 June 2023 art. 1 specifies that: “The number of scholarships may be increased should external funding become available before the application deadline specified in this competition for admission”;
- Considering the Rector’s Decrees filed as record no. 3618/2023 of 7 July 2023;
- Having deemed appropriate to increase the number of places available for admission to doctoral programmes, as requested by the programme coordinators, since new scholarships have been acquired;
- In view of the urgent need to enter into agreements with Fondazione IRCCS Istituto Neurologico “Carlo Besta”, Fondazione IRCCS Ca’ Granda Ospedale Maggiore Policlinico and TT Tooth Transformer S.r.l.,

### HEREBY DECREES AS FOLLOWS:

- the University is hereby authorised to enter into agreements with Fondazione IRCCS Istituto Neurologico “Carlo Besta”, Fondazione IRCCS Ca’ Granda Ospedale Maggiore Policlinico and TT Tooth Transformer S.r.l., for the funding of doctoral scholarships (39<sup>th</sup> cycle - academic year 2023/2024);
- places and scholarships previously available for admission to the doctoral programmes specified below are hereby increased as follows:

#### **Doctoral programme in Molecular and Cellular Biology**

Places available are increased from 18 to 21

Scholarships are increased from 18 to 21

1 scholarship funded by Fondazione IRCCS Istituto Neurologico “Carlo Besta” for the research project: “Flourish or perish: pro-regenerative epigenetic programme to sustain axonal sprouting of peripheral nerves”

1 scholarship funded by the Department of Biosciences for the research project: “An in vivo model of intractable R257C-ACTG2 Visceral Myopathy to study pathogenesis and to identify new disease targets”

1 scholarship co-funded by IRCCS Policlinico San Donato Spa under Ministerial Decree 117/2023 for the research project: "The potential of ncRNA as biomarkers of cardiovascular diseases" (CUP G43C23001100006)

### **Doctoral programme in Chemistry**

Places available are increased from 3 to 6

Scholarships are increased from 3 to 6

1 scholarship co-funded by Lombarda H S.r.l. under Ministerial Decree 117/2023 for the research project: "Sviluppo di prodotti cosmetici funzionali per la cura del paziente: dalla ricerca di laboratorio allo scale-up industriale. EN: Development of functional cosmetic products for patient care: from laboratory research to industrial scale-up" (CUP G43C23001140006);

1 scholarship co-funded by Italfarmaco S.p.a. under Ministerial Decree 117/2023 for the research project: "Sintesi di nuovi sistemi di rilascio di farmaci e di leganti covalenti reversibili di proteine ad interesse farmaceutico. EN: Synthesis of new drug delivery systems and of reversible-covalent binders for clinically-relevant protein targets" (CUP G43C23001140006);

1 scholarship co-funded by Dreos S.r.l. under Ministerial Decree 117/2023 for the research project: "Utilizzo di tecniche di intelligenza artificiale nell'ambito della chimica computazionale. EN: Use of artificial intelligence techniques in computational chemistry" (CUP G43C23001140006)

### **Doctoral programme in Industrial Chemistry**

Places available are increased from 1 to 7

Scholarships are increased from 1 to 7

1 scholarship co-funded by Dipharma S.p.A. under Ministerial Decree 117/2023 for the research project: "Design and implementation of innovative and sustainable synthetic strategies" (CUP G43C23001650006);

1 scholarship co-funded by Indena S.p.A. under Ministerial Decree 117/2023 for the research project: "Development of green catalytic methods for the synthesis of pharmaceutically relevant intermediates" (CUP G43C23001650006);

1 scholarship co-funded by Bunge Italia S.p.A. under Ministerial Decree 117/2023 for the research project: "Process intensification in wastewater treatment and for waste valorization" (CUP G43C23001650006);

3 scholarships co-funded by Eni S.p.A. under Ministerial Decree 117/2023 (CUP G43C23001650006) for the research projects:

- "Design and optimization of a new generation of cooperative adsorbents able to overcome the limitations of the first generations and to operate in CCS technologies Synthesis and characterization of the adsorption properties of porous polymeric materials";
- "Design and optimization of a new generation of cooperative adsorbents able to overcome the limitations of the first generations and to operate in CCS technologies Structural characterization of porous materials and their host-guest interactions by X-ray diffraction methods";
- "New porous regenerable adsorbents for the remediation of PFAS polluted water resources"

### **Doctoral programme in Physics**

Places available are increased from 12 to 14

Scholarships are increased from 11 to 13

1 scholarship co-funded by NTT Data Italia S.p.A. under Ministerial Decree 117/2023 for the research project: "Application of quantum computing to deep reinforcement learning" (CUP G43C23001170006);

1 scholarship co-funded by Eni S.p.A. under Ministerial Decree 117/2023 for the research project: “Nuova generazione di algoritmi quantistici per l'ottimizzazione e la chimica quantistica EN: Next generation of quantum algorithms for optimization and quantum chemistry” (CUP G43C23001170006)

### **Doctoral programme in Experimental Medicine**

Places available are increased from 12 to 13

Scholarships are increased from 12 to 13

1 scholarship funded by Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico for the research project: “Investigation of the biological, molecular, and clinical relevance of NONO in multiple myeloma”

### **Doctoral programme in Translational Medicine**

Places available are increased from 5 to 9

Scholarships are increased from 5 to 9

3 scholarships financed with PNRR funds by the Department of Health Sciences in the framework of the project D3-4 Health - Digital Driven Diagnostic Prognostics and Therapeutics for Sustainable Health Care - Spoke 3 “Wearable technologies, sensors and biomarkers for care through Digital Twin approaches”, for the following research projects, whose lead instructor is Prof. Monica Miozzo (CUP B53C22006080001):

- “Epigenomic profiling of peripheral blood lymphocytes in type 1 diabetes to identify possible disease markers related to the clinical phenotype”
- “Evaluation and characterization of spontaneous platelet aggregation as a potential marker of platelet hyper-reactivity in patients with Type 1 Diabetes”
- “Gut microbial signatures as biomarkers in disease exacerbation”

1 scholarship co-funded by SST Clinica Odontoiatrica S.r.l. under Ministerial Decree 117/2023, for the research project: “Application of systems of predictive analytics and artificial intelligence to data relative to salivary bioscience and diagnosis in general” (CUP G43C23001430006)

### **Doctoral programme in Clinical Research**

Places available are increased from 12 to 13

Scholarships are increased from 12 to 13

1 scholarship funded by TT Tooth Transformer S.r.l. for the research project: “Dentin as an allogeneic graft for alveolar bone regeneration”

### **Doctoral programme in Literature, Arts and Environmental Heritage**

Places available are increased from 4 to 6

Scholarships are increased from 4 to 6

2 scholarships financed with PNRR funds by the Department of Cultural and Environmental Heritage in the framework of Extended Partnership no. 5 – “Changes”, for the research project “Regenerating intangible cultural heritage in performing arts and audiovisual media”, whose lead instructor is Prof. Alberto Bentoglio (CUP G53C22000430006)

### **Doctoral programme in Nutritional Sciences**

Places available are increased from 13 to 15

Scholarships are increased from 13 to 15

1 scholarship financed with PNRR funds by the Department of Health Sciences in the framework of the project D3-4 Health - Digital Driven Diagnostic Prognostics and Therapeutics for Sustainable Health Care -

Spoke 1 “Clinical use cases and new models of care supported by AI/E-Health based solutions”, for the research project: “Searching for novel disease markers by lipidomics and treatments to prevent the onset of Type 1 Diabetes Mellitus in subjects at risk”, whose lead instructor is Prof. Monica Miozzo (CUP B53C22006080001)

1 scholarship financed with PNRR funds in the framework of the MUSA (Multilayered Urban Sustainability Action) project – Spoke 2 “Big Data-Open Data in Life Sciences”, for the research project “Telemedicine: integrated approach in the nutritional dietary management of the pediatric patient suffering from neurological pathology”, whose lead instructor is Prof. Gianvincenzo Zuccotti (CUP G43C22001370007).

### **Doctoral programme in Pharmacological Biomolecular Sciences, Experimental and Clinical**

Places available are increased from 21 to 23

Scholarships are increased from 20 to 22

1 scholarship financed with PNRR funds in the framework of the project CN3 RNA - Developing gene therapy and medicines with RNA technology - Spoke 8 “Platform for DNA/RNA delivery”, for the research project “Patient-derived EVs for the cancer-specific delivery of drugs”, whose lead instructor is Prof. Paolo Ciana (CUP G43C22001320007)

1 scholarship funded by the Department of Pharmacological and Biomolecular Sciences “Rodolfo Paoletti” for the research project: “An integrative approach for the systematic characterization of mitochondrial regulators in hepatocellular carcinoma”

### **Doctoral programme in Mathematical Sciences**

Places available are increased from 1 to 2

Scholarships are increased from 1 to 2

1 scholarship co-funded by Icare Centervue S.p.A. under Ministerial Decree 117/2023 for the research project: “Development of imaging algorithms for biomedical applications” (CUP G43C23001640006)

### **Doctoral programme in Legal Studies “Cesare Beccaria”**

Places available are increased from 1 to 2

Scholarships are increased from 1 to 2

1 scholarship co-funded by PagoPa S.p.A. under Ministerial Decree 117/2023 for the research project: “Ethics by design of digital public services in the data-driven society” (CUP G43C23001130006)

Milan, 26 July 2023

THE RECTOR  
(signed Elio Franzini)

Filed as record no. 0029736.23 of 26 July 2023