ANNEX 4

ID NUMBER	GEM_04
PHD TITLE	**GENOMIC AND EXPERIMENTAL MEDICINE**
AVAILABLE POSITIONS	7 PNRR Doctoral Fellowships (on research themes relevant for the PNRR)
	1 PNRR fellowships – Public Administration (on research themes relevant for the specific PNRR subprogram)
PHD AND SELECTION FEATURES	The Ph.D. program in Genomic and Experimental Medicine (GEM) is designed for highly motivated students with a master degree (or equivalent) in scientific disciplines and who wish to undertake a career in the biomedical field focusing on different topics ranging from human and medical genetics to functional genomics and genomic medicine. The goal of the Ph.D. Program is to train the next generation of researchers in the fields of cellular, molecular and translational research through basic but also innovative and state-of-the-art approaches, with the aim of advancing disease prevention and therapeutic approaches to improve human health. Upon completion of the course of study, individuals with a Ph.D. in Genomic and Experimental Medicine will find natural employment in academic and clinical research Centers of Excellence, biotechnology industries, and other biomedical structures. PhD students attending the GEM Program will be trained in the fields of: Molecular Therapy, Cell Biology and Disease Mechanisms, Genomic Medicine and Molecular Oncology.
DESCRIPTION OF THE RESEARCH LINES OF THE DOCTORAL PROGRAM	The scientific knowledge acquired through Omics sciences and their continuous intersection with the medical and biotechnological fields pose a pressing demand for new highly specialized training courses. The Ph.D. program in Genomic and Experimental Medicine (GEM) is aimed at students with a master degree (or equivalent) in scientific disciplines, particularly in the biomedical field. The final goal of the school is to train individuals wishing to start a career in the biomedical field focusing on different topics ranging from human and medical genetics to functional genomics and genomic medicine. Upon completion of studies, individuals with a PhD in Genomic and Experimental Medicine will find their natural job collocation in academic and clinical Research centers of excellence, in biotechnological industries and in other structures of the biomedical field. The doctoral course offers highly qualified training in the field of genomic medicine, post-genomics and Molecular Medicine, with a focus on genetic diseases. The doctoral course lasts four years, with the following Research topics: Molecular Therapy, Cell Biology and Disease Mechanisms, Genomic Medicine and Molecular Oncology. It mainly refers to the following scientific disciplines BIO / 10, BIO / 11, BIO / 12, BIO / 13, BIO / 17, BIO / 18, HIM/08, ING-IND / 34, MED / 03, MED / 04, MED / 06, MED / 08, MED / 38. In addition, PhD students will have the opportunity to know and practice innovative and modern technologies such as genomics, epigenomics, advanced microscopy, high content screening, proteomics, next generation sequencing approaches and viral vector production. In addition, PhD students in GEM will receive additional training in "complementary skills" such as grant application writing, scientific project management, and intellectual property management.

	This training will take place through lectures by researchers working in various fields, clinicians, and experts in project management, grant writing, and scientific communication. The official language of the PhD is English; courses and seminars will be held in English, as well all dissemination activities held by PhD students, Website, announcement and support materials will be in English
SCIENTIFIC COORDINATOR	Prof. Brunella Franco
SCIENTIFIC REPORT TO BE ATTACHED TO THE APPLICATION	Scientific report in English (max. 2,500 words/15,000 characters, spaces and short bibliography included) with a description of the topic of the master's thesis or a scientific topic addressed subsequently by the candidate in the course of his/her experience, divided into sections illustrating the state of the art, objectives, results obtained, methodology used, and possible future developments.
COURSE LENGTH (IN YEARS)	4 years
ANNUAL GROSS AMOUNT OF THE SCHOLARSHIP	€19,000 + 50% increase of the monthly installment of the fellowship for stays abroad (for a maximum of 12 monthly installments)
RESEARCH BUDGET	10% of the fellowship in the first year, 20% of the fellowship in the three following years
E-MAIL ADDRESS FOR INFORMATION	gem@ssmeridionale.it
PROGRAM'S WEBPAGE	https://www.ssmeridionale.it/en-us/dottorato/rubriche/genomic-and-experimental-medicine-gem-3125-1-b964b4c0d77cb77f0fe4e664868ed61a
WEBPAGE FOR INFORMATION AND NOTIFICATIONS TO APPLICANTS	https://www.ssmeridionale.it/it-it/la-scuola/bandi-di-concorso/dottorati