

ALLEGATO 1

<b>Numero identificativo del concorso</b>	GEM_04
<b>Titolo del programma di ricerca</b>	Genomic and Experimental Medicine
<b>Descrizione del programma di ricerca</b>	<p>The research programme should focus on the study of (mainly) genetic diseases (mendelian and non mendelian) and can address any of the following areas: development of new technological platforms for the study, diagnosis, and treatment of genetic diseases and their underlying molecular mechanisms. The research programme may focus both on basic research and on translational approaches. The following programs are available: 1) Cellular Biology and Mechanisms of Disease, i.e., the study of cellular and subcellular alterations, the study of intracellular trafficking, of contact sites between organelles, of the mechanisms that regulate homeostasis and cell survival in physiological and pathological contexts; 2) Molecular Therapy, i.e., the study of innovative diagnostic and therapeutic strategies, based on the use of modified and unmodified nucleic acids, carried by various vectors, as well as the use of small molecules with pharmacological action useful for understanding and treating the symptoms and preventing the consequences of genetic diseases; 3) Genomic Medicine, i.e., the use of -omic technologies for diagnosis and therapy genetic disease and for the creation of models and predictive tools for understanding the molecular anomalies that characterize the cellular context of diseases. Projects addressing the application of synthetic biology and reverse engineering strategies for the manipulation and optimization of cellular processes, such as the production of molecules for biopharmaceutical purposes or vectors that can be used in gene therapy contexts are also welcome; 4) Molecular Oncology: the study, using all currently available technologies, of the mechanisms underlying neoplastic cell transformation, of innovative diagnostic and classification strategies and the genomic characterization of cancer cells in order to develop personalized therapeutic strategies, depending on the compromised transduction pathways. All the activities will be carried out at the Scuola Superiore Meridionale and TIGEM – Telethon Institute of Genetics and Medicine.</p>
<b>S.S.D.</b>	BIO/10 (Biochemistry), BIO/11 (Molecular Biology), BIO/12 (Clinical Biochemistry and Clinical Molecular Biology), BIO/13 (Applied Biology), BIO/14 (Pharmacology), BIO/17 (Histology), BIO/18 (Genetics), BIO/19 (Microbiology), ING-INF/04 (Automatic), ING-INF/06 (Bioengineering computer science and electronics), ING-IND/34 (Industrial Bioengineering), MED/03 (Medical Genetics), MED/04 (General Pathology), MED/06 (Medical Oncology), MED/07 (Microbiology and Clinical Microbiology), MED/08 (Pathologic Anatomy), MED/38 (General and Specialty Pediatrics), MPSI/02 (Psychobiology, now Neuroscience), AGR/07 (Agricultural Genetics), VET/03 (General pathology and veterinary pathological anatomy), VET/07 (Veterinary pharmacology and toxicology)
<b>Ambiti disciplinari</b>	Molecular Therapy, Cell Biology and Disease Mechanisms, Genomic Medicine e Molecular Oncology
<b>Responsabile Scientifico</b>	Prof. Brunella Franco

<b>Durata in anni</b>	1 year, renewable up to 3
<b>Importo lordo annuo al netto degli oneri a carico dell'Ateneo</b>	Euro 35.000
<b>Data di pubblicazione dell'elenco degli ammessi al colloquio e della data di svolgimento dei colloqui</b>	28 marzo 2023
<b>Sito web su cui reperire le informazioni e le notifiche ai candidati</b>	<a href="https://www.unissme.it/en-us/la-scuola#bandi-e-avvisi">https://www.unissme.it/en-us/la-scuola#bandi-e-avvisi</a> <a href="http://www.ssm.unina.it/en/postdoctoral-fellowships-calls-and-procedures/">http://www.ssm.unina.it/en/postdoctoral-fellowships-calls-and-procedures/</a>