



Bando - Ricerca biomedica condotta da giovani ricercatori 2020

ELENCO delle IDEE PROGETTUALI AMMESSE alla FASE 2

I responsabili scientifici delle idee progettuali ammesse riceveranno ulteriori comunicazioni in merito alla presentazione del progetto completo.

Rif. idea progettuale	Titolo	Organizzazione
2020-0258	Stathmin-2 in Spinal Muscular Atrophy (SMA): assessing molecular and therapeutic role in SMA human and murine models	Università degli Studi di Milano
2020-0259	Exosomal miRNAs as triggers of type I interferon-mediated autoimmune diseases: Aicardi-Goutières syndrome as a paradigm	Università degli Studi di Brescia
2020-0262	A 'nutritional systems biology' approach to disentangle the molecular-level association between metabolites, miRNAs, and cognitive impairment	Consiglio Nazionale delle Ricerche - Istituto di Tecnologie Biomediche
2020-0278	Unravelling the mechanisms of drug resistance and relapse in Proliferative Diabetic Retinopathy: translational implications	Università degli Studi di Brescia
2020-0289	Anti-GluA3 antibodies in Frontotemporal Dementia: from the identification of the pathogenic role to the preclinical evaluation of rescue strategies	Università degli Studi di Milano
2020-0304	Study of the mechanisms underlying cognitive deficits in a model of Noonan Syndrome using induced pluripotent stem cells-derived neurons	Università degli Studi di Brescia
2020-0315	Molecular mechanism underlying the effect of eEF2K genetic and pharmacological inhibition in Scn1a+/- mice: in search for a therapy for Dravet syndrome	Consiglio Nazionale delle Ricerche - Istituto di Neuroscienze
2020-0343	The role of protein folding in protozoan infections: unravelling the interactome of Leishmania and Plasmodium molecular chaperones	Università degli Studi di Milano
2020-0350	The Role of Heparan Sulfates and Heparan Sulfates Proteoglycans in hepcidin regulation and iron homeostasis in a mouse model of IRIDA	Università degli Studi di Brescia
2020-0358	FIGHT: Finding Trigger mechanisms of Atrial Fibrillation associated with PITX2c	Università degli Studi di Milano
2020-0370	Enlightening the role of synapsin III in Parkinson's disease by advanced microscopy: new therapeutic perspectives	Università degli Studi di Brescia

2020-0371	Molecular mechanisms of osteoporosis and age-related bone diseases	Fondazione Istituto Italiano di Tecnologia - IIT
2020-0375	Extracellular Nicotinamide Phosphoribosyltransferase (eNAMPT): role in the pathogenesis and progression of Inflammatory Bowel Diseases	Università degli Studi di Pavia
2020-0383	Molecular mechanisms associated with morphological alterations in pathological and null models of CDKL5 deficiency disorder	Università degli Studi dell'Insubria
2020-0386	Role of macrophage metabolism in chronic muscle degeneration	Università degli Studi del Piemonte Orientale "Amedeo Avogadro"
2020-0396	Mitochondrial dysfunction: the missing link between inherited fat accumulation and hepatocyte degeneration	Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico
2020-0400	Spatiotemporal dynamics and genomic landscape of CD8+ T cells during chronic hepatitis	Università Vita-Salute San Raffaele (Milano)
2020-0401	Role of integrin alphaV and mechanotransduction in Marfan syndrome-derived thoracic aortic aneurysm	Fondazione Istituto Europeo di Oncologia e Centro Cardiologico Monzino
2020-0403	Dissecting the role of bitter taste receptor in asthma: biochemical and structural characterization, downstream mechanism and disease correlated-SNP	Università degli Studi del Piemonte Orientale "Amedeo Avogadro"
2020-0406	Glial cells as drivers of central and peripheral mechanisms underlying multiple sclerosis-associated trigeminal pain: a matter of sex?	Università degli Studi di Milano
2020-0421	An integrated animal-human approach to explore molecular and functional mechanisms of migraine	IRCCS Fondazione Istituto Neurologico Nazionale C. Mondino
2020-0433	Exploring the neurodegenerative mechanisms of Secondary Progressive Multiple Sclerosis conversion with an innovative Machine Learning approach	Consiglio Nazionale delle Ricerche - Istituto di Tecnologie Biomediche
2020-0443	CD14+ dendritic cells in the pathogenesis of inflammatory arthritis	Università degli Studi di Milano - Bicocca
2020-0451	Characterization and targeting of calcium-dependent pathways in human-derived advanced cell models of Arrhythmogenic Cardiomyopathy	Fondazione Istituto Europeo di Oncologia e Centro Cardiologico Monzino
2020-0453	Unravelling the role of the immunophilin FKBP12 in Non-Alcoholic Fatty Liver Disease (NAFLD)	Università Vita-Salute San Raffaele (Milano)
2020-0460	Unravelling the molecular mechanism of LpX formation, causing kidney failure, in Familial LCAT deficiency	Università degli Studi di Milano
2020-0469	Study of the glucocorticoid system and MED22/mediator complex as key players in the relationship between early life adversity and major depression	Università degli Studi di Brescia
2020-0496	Cardiac fibroblasts: understanding the Mechanosensing role of the Plasmamembrane to target the fibrotic response	Fondazione Istituto FIRC di Oncologia Molecolare

2020-0499	Emerging enteroviruses: identifying molecular markers of virulence/pathogenicity in severe acute respiratory infections and neurological infections	Università degli Studi di Milano
2020-0506	Endothelial aryl hydrocarbon receptor as a novel molecular target for therapy of brain ischemia	Università degli Studi di Milano
2020-0522	A mechanism-based gene therapy approach for TDP-43 proteinopathies: a proof-of-concept study in frontotemporal dementia and traumatic brain injury	Istituto di Ricerche Farmacologiche "Mario Negri"
2020-0537	Study of TARget tissue-resident immune cells in Graves' disease and Orbitopathy (STARGO)	Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico
2020-0542	Deciphering Human Herpes Simplex Virus 1 Entry: from Function to Structure and Back	Università Vita-Salute San Raffaele (Milano)
2020-0544	Role of Trained Immunity in the pathogenesis of Still's disease	Università Vita-Salute San Raffaele (Milano)
2020-0550	Unravelling the molecular correlation between mechanical injuries and cartilage hypertrophy in osteoarthritis in a cartilage-on-chip model	Politecnico di Milano
2020-0553	Tracing the brain circuits underlying traumatic memory attenuation	Consiglio Nazionale delle Ricerche - Istituto di Neuroscienze
2020-0564	DNA replicative helicase loading in Mycobacterium tuberculosis: understanding the molecular details of bacterial replication in active tuberculosis.	Università degli Studi del Piemonte Orientale "Amedeo Avogadro"
2020-0568	Unraveling the role of non-apoptotic programmed cell death in Duchenne Muscular Dystrophy	Università degli Studi di Pavia
2020-0576	Role for astrocyte TrkB in stroke	Università Vita-Salute San Raffaele (Milano)
2020-0578	Telomeric DNA damage in Alzheimer's disease: investigating its role and exploring its therapeutic potential	Fondazione Istituto FIRC di Oncologia Molecolare
2020-0591	Finding genetic modulators for GBA-related Lewy Body Dementia	Humanitas University
2020-0597	BacVir-CF: Identification of novel bacterial virulence factors and inflammation determinants associated with persistent lung infections in cystic fibrosis	Università degli Studi di Milano
2020-0601	Systematic characterization of a novel mitochondrial regulator in adipogenesis	Università degli Studi di Milano
2020-0617	T cell subset alterations in correlation with pre-clinical vascular damage indexes in a cohort of patients with systemic sclerosis at high cardiovascular risk	Università degli Studi di Brescia
2020-0623	What is the contribution of cannabinoids in social approach? A basis for the treatment of autism spectrum disorders	Università degli Studi di Brescia
2020-0637	Genomic analysis of dysregulated inflammatory response in macrophages during sepsis	Università Vita-Salute San Raffaele (Milano)

2020-0639	Understanding SOCE-related pathophysiological pathways in ultra-rare diseases triggered by STIM1/ORAI1 gain-of-function mutations.	Università degli Studi del Piemonte Orientale "Amedeo Avogadro"
2020-0646	Unrevealing key miRNAs involved in the aberrant vessel stabilization in Hereditary Hemorrhagic Telangiectasia	Fondazione Humanitas per la Ricerca
2020-0656	Identification of new mechanisms underlying remyelination failure in multiple sclerosis: the role of miR-125a-3p in the axo-myelinic communication	Università degli Studi di Milano
2020-0662	Role of sphingosine 1-phosphate and its receptors in oligodendrocyte proliferation, survival and differentiation during myelin repair	Università degli Studi di Milano
2020-0667	Microbiota diversity in healthy elderly at risk for cognitive decline: role of inflammatory status and bacterial products	IRCCS "Centro San Giovanni di Dio-Fatebenefratelli" di proprietà e gestito dalla Provincia Lombardo-Veneta
2020-0669	Unraveling the role of dopamine in Helicobacter pylori gastric inflammation (Dopa-HP)	Università degli Studi di Milano
2020-0687	Glia-axon crosstalk: understanding how glia support axons for the prevention of axonal degeneration in peripheral neuropathies.	Università Vita-Salute San Raffaele (Milano)
2020-0688	Estrogen-dependent dysregulation of the macrophage-to-epithelium communication in endometriosis	Università degli Studi di Milano
2020-0710	Impact of endothelial dysfunctions in the pathogenesis of antiphospholipid syndrome-associated thrombosis	Fondazione Humanitas per la Ricerca
2020-0716	ERAPs role in Sars-CoV-2 infection. Possible new molecular therapeutic targets	Università degli Studi di Milano
2020-0726	Unravelling the role of EMMPRIN in Marfan syndrome thoracic aortic aneurysm pathogenesis through in vivo study on transgenic mice	Fondazione Istituto Europeo di Oncologia e Centro Cardiologico Monzino
2020-0728	Dissecting the therapeutic potential of adaptive immunity to SARS-CoV-2	Università Vita-Salute San Raffaele (Milano)
2020-0733	Dissecting The Molecular Mechanisms of Frequent AUTS2 Loss of Function in Neurodevelopmental Disorders	Università degli Studi di Milano
2020-0748	Myelin oligodendrocyte glycoprotein (MOG) autoantibodies in central nervous system demyelinating disorders: auto-reactive B-cell characterization and pathogenic effects of human derived monoclonal antibodies in in-vitro and animal models	IRCCS Fondazione Istituto Neurologico Nazionale C. Mondino
2020-0757	Tuning Apolipoprotein E expression by G-Quadruplex Targeting: a novel strategy to unravel its role in Alzheimer's disease	Università degli Studi di Pavia
2020-0768	Exploring the pathogenic role of exosomal miRNAs in the development of cardiovascular complications of type 2 diabetes mellitus	Fondazione Multimedica Onlus

2020-0770	LIRA: LsrK as Innovative Molecular Target for Quorum Sensing Interfering Agents Against Antimicrobials Resistance	Università degli Studi di Pavia
2020-0787	Deciphering Gram-negative cell envelope architecture remodelling mechanisms to fight bacterial multi-drug resistance	Università degli Studi di Milano
020-0799	Immunoregulation in neonatal sepsis: impact of regulatory pathways on clinical outcome	Azienda Socio Sanitaria Territoriale Fatebenefratelli - Sacco
2020-0800	Lipid Rafts and Autophagic Dysregulation in Batten Disease	Consiglio Nazionale delle Ricerche - Istituto di Neuroscienze
2020-0840	Measuring the Outcomes of Maternal COVID-19-related Prenatal Exposure (MOM-COPE) project	IRCCS Fondazione Istituto Neurologico Nazionale C. Mondino
2020-0859	Investigation of mitochondrial homeostasis as underlying feature of Dopaminergic neurons vulnerability in Parkinson's disease	Consiglio Nazionale delle Ricerche - Istituto di Neuroscienze