



Area Ricerca Scientifica	Bando Ricerca biomedica condotta da giovani ricercatori	Ammessi a Fase 2 deliberati dal Cda del 08/06/2021
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Rif. idea progettuale	Titolo	Organizzazione
2021-0124	Unravelling the molecular correlation between mechanical injuries and cartilage hypertrophy in osteoarthritis in a synovial joint-on-chip model	Politecnico di Milano
2021-0142	FIGHT: Finding triGger mechAnisms of aTrial fibrillation associated with PITX2	Università degli Studi di Milano
2021-0143	Exosomal miRNAs as triggers of type I interferon-mediated autoimmune diseases: Aicardi-Goutières syndrome as a paradigm	Università degli Studi di Brescia
2021-0151	Cardiac fibroblasts: understanding the Mechanosensing role of the Plasmamembrane to target the fibrotic response	Fondazione Istituto FIRC di Oncologia Molecolare
2021-0152	Dissecting the role of anti-GluA3 antibodies in Frontotemporal Dementia: from bench to bedside	Università degli Studi di Brescia
2021-0153	Spatial proteomics to elucidate the MIF cytokine & SHH signalling pathways in Membranous Nephropathy during resistance to immunosuppressive treatment	Università degli Studi di Milano - Bicocca
2021-0164	Amyloid deposition in the heart: mechanisms of targeting aortic valves and myocardium	Università degli Studi di Pavia
2021-0175	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
2021-0180	Role of CHIP/STUB1 in the clearance of toxic proteins responsible for repeat expansion neurodegenerative diseases	Università degli Studi di Milano
2021-0184	Endothelial aryl hydrocarbon receptor as a novel molecular target for therapy of brain ischemia	Università degli Studi di Milano
2021-0188	Exploring fat tissue antigenicity in human type 2 diabetes	Università Vita-Salute San Raffaele
2021-0194	Spatiotemporal dynamics and genomic landscape of CD8+ T cells during chronic hepatitis	Università Vita-Salute San Raffaele



2021-0197	Understanding the mechanisms of axonal degeneration in late onset CMT1B neuropathies to define new therapeutic strategies	Università Vita-Salute San Raffaele
2021-0206	Investigating Zc3h10 in Macrophages: a novel player in Meta-inflammation and Metabolic dysfunction (Zc-3Ms)	Università degli Studi di Milano
2021-0207	Unravelling the role of the immunophilin FKBP12 in Non-Alcoholic Fatty Liver Disease and its complications	Università Vita-Salute San Raffaele
2021-0210	Intercalated disks abnormalities in arrhythmic myocarditis: characterization in humans and modeling in a heart-on-chip platform	Università Vita-Salute San Raffaele
2021-0213	Extracellular vesicles-shuttled miRNAs in type 2 diabetes progression and complications development	Fondazione Multimedita Onlus
2021-0214	Mitochondrial dysfunction: the missing link between inherited fat accumulation and hepatocyte degeneration	Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico
2021-0227	Enlightening the role of synapsin III in Parkinson's disease by advanced microscopy: new therapeutic perspectives	Università degli Studi di Brescia
2021-0230	Unravelling the mechanisms of drug resistance in Diabetic Retinopathy: translational implications	Università degli Studi di Brescia
2021-0240	Role of poly(ADP-ribose) polymerase-1 in the molecular mechanisms underlying the amyloid- β -induced neuroinflammation	Istituto di Ricerche Farmacologiche "Mario Negri"
2021-0247	Selective telomeric DDR inhibition as a therapeutic opportunity for aplastic anemia	Fondazione Istituto FIRC di Oncologia Molecolare
2021-0249	Defining the role of FGF-23 in beta-thalassemia: a novel target at the crossroads of anemia, bone and hematopoietic stem cell niche defects	Università Vita-Salute San Raffaele
2021-0251	The adipokine Gremlin-1 in obesity-associated adipose tissue fibrosis	Università degli Studi di Brescia
2021-0268	The role of protein folding in protozoan infections: unravelling the interactome of Leishmania molecular chaperone Hsp90	Consiglio Nazionale delle Ricerche - Istituto di Scienze e Tecnologie Chimiche "Giulio Natta"
2021-0271	The Role of Heparan Sulfates in mouse models of anemia due to high hepcidin levels	Università degli Studi di Brescia
2021-0272	Integration of multi-"omics" data for the definition of pathways of pathology progression in frontotemporal lobar degeneration	Università Vita-Salute San Raffaele



2021-0277	Role of Extracellular Vesicle subpopulations in sporadic Frontotemporal Dementia spreading	Università degli Studi di Brescia
2021-0279	IRON homeostasis in Neuroferritinopathy: unravelling the molecular details of abnormal ferritin functionality (IRONyc)	Università Vita-Salute San Raffaele
2021-0289	Metabolic basis of the genetic second hit leading to cyst formation in Autosomal Dominant Polycystic Kidney Disease	Università Vita-Salute San Raffaele
2021-0301	Identifying key miRNAs responsible for the aberrant vessel stabilization in Hereditary Hemorrhagic Telangiectasia	Fondazione Humanitas per la Ricerca
2021-0303	Deciphering Host-Pathogen Interaction During Tuberculosis	Università degli Studi di Milano
2021-0306	LIRA: LsrK as Innovative Molecular Target for Quorum Sensing Interfering Agents Against Antimicrobials Resistance	Università degli Studi di Pavia
2021-0308	Ataxia-Telangiectasia and mechano-transduction: pathological implications for neurodegeneration	Università degli Studi di Milano
2021-0320	PLVAP as a novel key player in lymphatic vessels during psoriasis pathogenesis	Università degli Studi di Milano
2021-0323	CD14+ dendritic cells in the pathogenesis of inflammatory arthritis	Università degli Studi di Milano - Bicocca
2021-0327	Biomarkers, arterial stiffness and cardiovascular events: metabolomics and lipidomic roles	Università degli Studi di Milano - Bicocca
2021-0334	Role of the gut microbiome in shaping the inflammatory status in prodromal alpha-synucleinopathies	Università degli Studi di Brescia
2021-0335	Identification of specific miRNAs involved in allergic asthma and study of their role in etiopathogenesis of the disease	Università degli Studi di Milano
2021-0340	COVID-19: molecular pathogenicity markers and virulence of SARS-CoV-2 variants, and clinical impact of co-infections with other respiratory pathogens	Università degli Studi di Milano
2021-0341	Preservation of mitochondrial integrity after cardiac arrest: heart and brain effects of argon treatment	Istituto di Ricerche Farmacologiche "Mario Negri"
2021-0342	The role of trained immunity in Systemic Sclerosis	Università Vita-Salute San Raffaele
2021-0350	Towards understanding the role of host switch and temperature changes in Borrelia pathogenesis	Università degli Studi di Pavia



2021-0357	Microvascular thrombosis and inflammation induced by SARS-CoV-2 infection: the complement system as a novel target for therapy in COVID-19	Istituto di Ricerche Farmacologiche "Mario Negri"
2021-0359	Unveiling the Cyclophilin A/EMMPRIN axis role in the detrimental molecular mechanisms underlying aortic valve calcification	Fondazione Istituto Europeo di Oncologia e Centro Cardiologico Monzino
2021-0362	The relevance of cholesterol biosynthesis intermediates in atherosclerosis	Humanitas University
2021-0363	Staphylococci periprosthetic joint infections: deciphering the interplay between the agr quorum-sensing system and the host immune response	Humanitas University
2021-0364	Molecular reprogramming of the FOXP3+ regulatory T cell lineage in Inflammatory Bowel Disease	Fondazione Humanitas per la Ricerca
2021-0369	Molecular mechanisms of NLRP3-inflammasome inhibition by Leishmania infantum-derived factors in the neuropathogenesis of Alzheimer's disease	Università degli Studi di Milano
2021-0372	Cell-specific estrogen inhibitors: challenging the endocrine control of immunity in endometriosis	Università degli Studi di Milano
2021-0391	Disruptions of Topologically associating domains (TADs) as emerging pathogenic mechanism in brain diseases: the LMNB1 locus as a prominent example	Università degli Studi di Pavia
2021-0392	Role of Heparan Sulfate Proteoglycans in COVID-19 mediated endothelial cell dysfunction	Università degli Studi di Brescia
2021-0400	Dissecting the genetic architecture of chronic inflammatory demyelinating polyradiculoneuropathy (CIDP): implication for therapy and diagnosis	Fondazione Humanitas per la Ricerca
2021-0407	Deciphering pseudouridylation dynamics during normal and pathological neural development	Fondazione Istituto Italiano di Tecnologia - IIT
2021-0408	Dissecting the role of imprinting gene networks in Beckwith-Wiedemann syndrome	Università degli Studi di Milano
2021-0418	Pathogenetic mechanisms underlying Long-COVID Syndrome	Università degli Studi del Piemonte Orientale "Amedeo Avogadro"
2021-0421	LncRNA Chheaf-1: a novel regulator of cardiac function in heart failure	Humanitas University



2021-0429	INTO-MIG project: an INTegrated animal-human approach to explore mOlecular and functional mechanisms of MIGraine	IRCCS Fondazione Istituto Neurologico Nazionale C. Mondino
2021-0431	Investigating axonal defects and neuronal circuit maintenance in Frontotemporal dementia (FTD-AxCir)	Consiglio Nazionale delle Ricerche - Istituto di Neuroscienze
2021-0435	Study of Protocadherins nuclear signaling in neurodevelopmental disorders	Consiglio Nazionale delle Ricerche - Istituto di Neuroscienze
2021-0453	Elucidating the molecular mechanisms underlying Pitt-Hopkins syndrome through the generation of 3D printed vascularized cortical organoids	Politecnico di Milano
2021-0465	Targeting TLR4-mediated skin inflammation and fibrosis induced by extracellular IFI16 in Hidradenitis Suppurativa	Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico
2021-0466	Studying the role of the thyroid hormone/thyroid hormone receptor $\alpha 1$ (TH-TR $\alpha 1$) axis in tubular repair/regeneration after acute kidney injury	Istituto di Ricerche Farmacologiche "Mario Negri"
2021-0491	L-type Calcium Channel in septic cardiomyopathy: a potential diagnostic and therapeutic target for management of the septic heart	Consiglio Nazionale delle Ricerche - Istituto di ricerca genetica e biomedica