



**RICERCA
SCIENTIFICA
DI ECCELLENZA**

2021

**PROGETTI AMMESSI
ALLA SECONDA FASE
DEL BANDO**

AREA 1 - SCIENZE NATURALI E INGEGNERIA

Titolo progetto	Principal Investigator
Black holes in the pair instability mass gap - BLACKGAP	Mapelli Michela
Extreme Storms in the Italian North-East: frequency, impacts and projected changes - RESILIENCE	Borga Marco
Metasurfaces-Enabled Technological Advances for Selective Plane Illumination Microscopy - META-SPIM	Romanato Filippo
Glasses under light: exploring the extremes - GLASS@EXTREMES	Monaco Giulio
PhotoControl - A knowledge-based approach to automatic control and optimisation of photosynthetic bioprocesses	Bezzo Fabrizio
Gross - Bio-based and inorganic functional materials as proofs of concept of circular strategies in sustainable materials production (BIFocal-Mat)	Gross Silvia
Chiral Nanospaces for Stereoselective Control of Radical Reactivity (CHIRALSPACE)	Zonta Cristiano
DEvelopment of a sYstem based on ultrafast photogrammetry and artificial intelligence for landSLIDE forecasting - DENYSLIDE	Cola Simonetta
Intelligent robotic walker guide for powered exoskeletons with neural interface (WALKin)	Menegatti Emanuele
Restoring Antibiotic sensitivity in Bacteria: a synthetic biology approach (ReActing)	Schenato Luca
AGROSAL	Camporese Matteo
An all-in-one Upconverting-based Theranostic Nanoplatform for Multimodal Imaging and NIR-Light Activated Photodynamic Cancer Therapy - ATHENA	Natile Marta Maria

AREA 2 - SCIENZE DELLA VITA

Titolo progetto	Principal Investigator
Priming Manila Clams Against Multiple Stressors - PRIMECLAMS	Bargelloni Luca
Lessons from plants evolution to improve crops photosynthetic productivity - LOLLIPOP	Morosinotto Tomas
Mitochondrial ATP-sensitive potassium channels in health and disease - MitoKATP	De Stefani Diego
CXCR4: a marker of neurotransmission failure and a target for neuromuscular function recovery (CIRCLE)	Rigoni Michela
Autism spectrum disorders associated with aberrant biomolecular condensates (DropAut)	Fuxreiter Monika
Studying gene Expression profile in Olive fly <i>Bactrocera oleae</i> to integrate Symbiosis disruption in an environmental-friendly scenario - EXOSymb	Mazzon Luca
Tackling mechanisms of immune evasion by <i>Helicobacter pylori</i> : CD300e as novel biomarker for tailor-made immunotherapy of gastric cancer - ANEMONE	de Bernard Marina
Exploring the neglected genome to discover new longevity-related genes	Sandri Marco
Decoding resistance to target therapy in glioblastoma by a multi-omic approach (DREAM)	Indracoletto Stefano
Towards precision medicine: novel molecular tools to estimate circadian time in population health and in the clinical setting	Montagnese Sara
ImmuneSARC: immune microenvironment of liposarcomas	Dei Tos Angelo Paolo
A sentinel species for PFAS water pollution: field and laboratory approach with the mosquitofish - SenPFAS	Pilastro Andrea Augusto
Influence of tumor microenvironment in malignant pleural mesothelioma: clinical and translational study (Meso-TME).	Calabrese Fiorella
MicroRNA-146b restoration using selective lipoplex carriers as a therapeutic strategy for neutropenic T-Large Granular Lymphocyte Leukemia patients MirCaRe (MicroRNA Carrier Restoration)	Zambello Renato

AREA 3 - SCIENZE UMANE E SOCIALI

Titolo progetto	Principal Investigator
The earliest foundry of Pre-Roman Padua - La Prima Fonderia di Padova Preromana	Vidale Massimo
PAST 2.0 - PAtavinae STelae. The figured funerary stelae of Padua between the Middle Iron Age and the Romanization: critical review, digitalization and valorisation	Cupitò Michele
Virtual cognitive stimulation Interventions for People with dementia: Slowing cognitive decline and biological aging for a better Quality of Life (VIP-QoL)	Borella Erika
Assessing the effects of COVID-19 on firms, banks and Public finance: benefits and costs of Public Policies - IMPACT	Pugliese Amedeo
Recognising shapes: a full investigation of a novel entrainment procedure - SHARE (SHApe REcognition)	Bertamini Marco
Innovation in Digital Markets - INDIMAR	Manenti Fabio
Why does it keep going up? The psychology of why people fail at managing debt	Rubaltelli Enrico
Unlocking consciousness. Neuroethics dealing with disorders of consciousness and motor neuron diseases, UnCon-Ethics	Da Re Antonio
Development of a Psychometric Risk Score (PRS) to predict defaulting on a loan	Sartori Giuseppe
Prosumers in Transition - Energy Communities Trade-Offs. Investment Decisions and Participation in Energy Communities (ProTECTO)	D'Alpaos Chiara
INjuries pROness in Adhd and Driving - INROAD	Carretti Barbara
Measurement Errors and Missing Information in Meta-Regression (MEMIMR)	Guolo Annamaria
Unraveling the unique role of the embodied route for emotional face processing	Sessa Paola
Chinese Capital and Entrepreneurship in Italy: Profiles and scenarios of industrial relations, sustainability, health and safety - CHICAI	Zanin Valter