PhD in Biology	39th Cycle	2023-2026
List of approved projects	(this list could be upd	ated)

Project Title	Short Description (100 parole / 600 caratteri spazi inclusi)	Fellowship	Main Department	Periods Abroad / Periods in external location or company	Foreign Lab / External location in Italy or abroad	PROPONENT	Tel	E-mail	Comments
Selection of bioindicators of soil quality	Recently, to preserve the level of naturalness of terrestrial ecosystems or to draft management plans aiming to restore or rehabilitate environments that are degraded or severely damaged are of great concern. In this framework, the research aims to assess the role of soil as carbon sink and as system hosting biodiversity. To achieve the aim, the research will be performed in forest and man-made ecosystems. The structural and functional biodiversity of microorganisms (bocteria and fung) and microarthropods will be studied. The results will increase the current knowledge about edaphic biodiversity and will provide the identification of bioindicators of soil qualcators of soil qualcators.	Borse finanziate dall'Ateneo. Full Fellowship by University of Naples "Federico II"	Dipartimento di Biologia	> 3 months abroad	Foreign Lab: Centre d'Ecologie Fonctionnelle et Evolutive, Université Paul-Valéry, Montpellier III (Prof. Jérôme Cortet)	MAISTO GIULIA	081-679095	giulia.maisto@unina.it	
The impact of Nutrition on Brain Metabolism and Disease	In recent decades, the link between nutrition, brain health and risk of central nervous system pathologies was highlighted. Brain status strongly depends onergy availability and diet can deeply impact brain functions like synaptic plasticity, cognitive processes, neuroendocrine functions and behaviour, thus affecting health. Diet manipulation, i.e. both detary supplement (such saterials) has considerable effects on brain physiology and could be of particular importance in the context of global human aging, which is associated with the increase of neurodegenerative diseases. How different diets'nutritional strategies (from single micromacronutrient to complex foods and/or functional food particularly problotics, and postbiotics) modulate brain function, with special regard to its metabolism, redox homeosasism, insulin signaling, neuroinflammation, guibrain axis, and synaptic function is the focus of this PhD research project proposal	Borse finanziate dall'Ateneo. Full Fellowship by University of Naples "Federico II"	Dipartimento di Biologia	> 3 months abroad	Foreign Lab: Dr Florenzano - Lab Developmental and Regenerative Neurobiology, Wallenberg Neuroscience Center, and Lund Stem Cell Center, Department of Experimental Medical Science, Lund University (Sweden)	CIGLIANO LUISA	081-2535215 081-2535244	luisa.cigliano@unina.it	
Characterization of post- translational modifications of the different isoforms of glucose-6P dehydrogenase from plant and algal sources	The project aims to clarify the regulation of plant glucose 6-phosphate helphotogeness in the regions to audictic stress and in the selection of metabolism to the synthesis of secondary metabolities. A main point is to define the posttransistional modifications present on the different G6FDHs, with a particular regard to glutathionylation and O-GlcNAcotylation. Using the facilities present at Sortonne University in Paris, the 3D structure of the plant enzyme will be possibly determined, in order to describe the assembly and regulation of the activity, that has been elusive to plant biologists until dody	Borse finanziate dall'Ateneo. Full Fellowship by University of Naples "Federico II"	Dipartimento di Biologia	> 3 months abroad	Foreign Lab: Prof. Stephane Lemaire - Laboratoire de Biologie Moléculaire et Cellulaire des Eucaryotes - Institut de Biologie Physico- Chimique, Université Pierre et Marie Curie - Université de Sorbonne – Paris (France)	ESPOSITO SERGIO	081-679124	sergio.esposito@unina.it	
Emerging pollutants and metabolic adaptations to hypoxia in Danio Rerio	Some antihypertensive drugs are considered emerging water pollutants. These in teleact could after physiological pathways involved in the response to hypoxic stress due to natural or antihropogenic causes. Among the antihropic factors of hypoxia, there is the spillage of nitrities and nitrates into the waters, coming from ovil and or industrial waste, which reduces the transport of 20 in the hybrid to the could not be considered to the properties of the prop	Borse finanziate PNRR ex D.M. 118 - Area Ricerca PNRR	Dipartimento di Biologia	> 6 months abroad	Foreign Lab: Faculdade de Ciências da Universidade de Lisboa, Lisboa, Campo Grande, 1749-016, Portugal	VENDITTI PAOLA	081-2535080 081-2535082	paola.venditti@unina.it.	
Environmental pollution and human fertility: genomics, proteomics, and metabolomics studies	This multideciplinary protect will focus on assessing alterations in the semen of subjects living in areas of high environmental impact and on undestanding the molecular mechanisms of the reproductive toxicity of environmental pollutants using proteomics, genomics and metabolomics agrosches. This is because there has been a drastic decline in the quality of human semen in industrialised countries over the last 40 years. Finally, the model organism Mytilus galloprovincialis will be used to assess the effects of certain environmental pollutants on spermatozou under controlled conditions.	Borse finanziate PNRR ex D.M. 118 - Area Ricerca PNRR / Fellowship by PNRR ex D.M. 118 Research Area PNRR	Dipartimento di Biologia	> 6 months abroad	Foreign Lab: Dr. Marc Yeste Oliveras - Research group Biotecnologia de la Reproducció Animal i Humana Department di BIOLOGIA - Universitat de Girona - Spain	PISCOPO MARINA	081-679081	marina.piscopo@unina.it	
Antibiofilm strategies: re- purposed non-antifungal approved drugs for the synergistic targeting of fungal pathogens	Antifungal drug resistance has emerged as a major challenge and fungal biofilms are important virulence factors correlated with invasive fungal infections. A possible approach to overcome the problem is the "repurposing strategy". The research project presents strong public health implications and has two aims: the isolation of Candida altibicans and non from human districts which are associated with biofilm formation, and in vitro and in vivo evaluation of the effects of promising new anti-biofilm molecules alone or in combination with conventional drugs. The effectiveness of the examined molecules will be evaluated with respect to the host-pathogen interactions (infection, adherence, and invasion assays) by using mammalian cell lines as models.	Borse finanziate PNRR ex D.M. 118 - Area Ricerca PNRR / Fellowship by PNRR ex D.M. 118 Research Area PNRR	Dipartimento di Biologia	> 6 months abroad	Foreign Lab: Dr. Eddie Cytryn, Soil, Water and Environmental Sciences, Soil Chemistry, Plant Nutrition and Microbiology, Institute of Soil, Water and Environmental Sciences Volcani Institute Agricultural Research Organization, Bet Dagan, Israel	GALDIERO EMILIA	081-679181 081-679182	egaldier@unina.it	
Alzheimer's and Frontotemporal Disease: identification and characterization of genetic factors	Abzhemer's disease (AD) and frontotemporal dementia (FTD) are the two most common forms of neurodepenerative diseases. To date, only a few causative genes of AD and FTD have been described. The proposed project has a dual objective: 1.identify new genetic determinants for AD and FTD, through the acquisition of Whole Genome Sequencing (WGS) genomic data from clinically well-characterized and selected patient cohorts. 2.Use genome editing approaches for the generation of functional cellular models to study the relationship between genes related to neurodegenerative diseases.	Borse finanziate PNRR ex D.M. 118 - Area Ricerca PNRR / Fellowship by PNRR ex D.M. 118 Research Area PNRR	Dipartimento di Biologia	> 6 months abroad	Foreign Lab: Prof. Ana Maria Sánchez-Pérez, presso il Neurobiotechnology Lab, INAM (Institute of Advanced Materials), University of Jaume I, Castellon, Spain	DONIZETTI ALDO	±+39-081-679082	aldo.donizetti@unina.it	
Modulation of the intestinal microbiota by probiotic spores displaying microbiotatargeting molecules	Alterations of the gut microbiota induce a variety of metabolic and inflammatory disorders and a number of microbiota-targeting approaches have been proposed to modulate its composition. Here we propose a new microbiota-targeting approach based on the delivery of selected molecules by spores of probiotic strains of Bacillus, known to modulate the microbial composition of the gut. The probiotic spores and the molecules adsorbed on their surface are expected to have synergistic effects on the gut microbiota, contributing to prevent the onset of metabolic and inflammatory damages.	Borse finanziate PNRR ex D.M. 118 - Area Transizione Ambientale e Digitale / Fellowship by PNRR ex D.M. 118 - Digital and Environmental Transition Area PNRR	Dipartimento di Biologia	> 6 months abroad PLUS >6 months in external location or company	Foreign Lab: Prof. Simon M. Cutting School of Biological Sciences Royal Holloway University of London Surrey, UK External Lab/Company in Italy (or abroad): SporeGen Limited The London BioScience Innovation Centre London, UK	RICCA EZIO	081-679036	ericca@unina.it	L'attività è coerente con le Linee guida per le "iniziative di sistema della Missione 4: Istruzione e Ricerca - Componente 2 calla incera all'impresa", che si rifanno a tencilogia abilitanti, correnti con le misure previsite dal PNR 2021-2027. In particolare, la proposta riguarda aree disciplinari e tematiche correnti con la transizione ecologia ca ambientale del PNR negli ambiti PRODOTTI ALIMENTARI, BIOECONOMIA, RISORSE MATURALI, AGRICOLTURA, AMBIENTE, area Scienza e tecnologia alimentari (articolazioni 3 e 4).

New advances in Invertebrate-borne diseases Research	Le malattie trasmesse dagli invertebrati negli animali e nell'uomo sono di crescente interesse per la comunità scientifica a causa della loro diffusione in nuove aree de filo roe levato potenziale zonotico. La loro distribuzione globale è causata da diversi drivers che contribuiscono alla diffusione dei vettori e dei patogeni, e alla loro introduzione nelle regioni non endemiche. Inoltre, l'interazione di animali selvatici e domestici che condividono ambienti, vettori e malattile con gli esseri umani e ruciale nell'epidemiologia di queste malattie che spesso impattano sulla biodiversità, come dimostrano i sempre crescenti episodi di mortalità di massa di specie chiave da un punto di vista ecologio. I nolluschi e gli insetti possono trasmettere una vasta gamma di agenti patogeni dell'uomi e degli animali, i quali possono indicere negativamente non solo in terrili sanitari, ma anche in termini produttivi dei cologici. Questo studio si prefigge di implementare nuove strategie di sorveglianza e miligazione utili per la prevenzione di nuovi focolai epidemici e la conservazione della salute e del benessere umano-animale anche a tutela della biotidversità.	Borse finanziate PNRR ex D.M. 118 - Area Pubblica Amministrazione / Fellowship by PNRR ex D.M. 118 - Public Administration Area PNRR	Dipartimento di Biologia	> 6 months abroad PLUS >6 months in external location or company	Foreign Lab: University of Veterinary Medicine - Dept- of Pathobiology - Vienna External Lab/Company in Italy (or abroad) : Istituto Zooprofilattico Sperimentale del Mezzogiorno (Napoli)	DE VICO GIONATA	081-2535149 081-2535134	gionata.devico@unina.it	
Generation of preeclampsia in vitro model system to identify a personalised therapeutic approach	Preciampsia contributes significantly to pregnancy-associated morbidity and mortality. The project proposes identifying novel biomarkers to distinguish, characterize and monitor the different inflammatory stages of preciampsia and simultaneously use them as therapeutic targets for naturally occurring compounds.	Borse finanziate PNRR ex D.M. 118 - Area Transizione Ambientale e Digitale / Fellowship by PNRR ex D.M. 118 - Digital and Environmental	Dipartimento di Biologia	> 6 months abroad PLUS >6 months in external location or company	Foreign Lab: Dina Simes Universidade do Algarve, Faculdade de Ciencias e tecnologías External Lab/Company in Italy (or abroad): Arterra Biosceinces - Napoli	ANGRISANO TIZIANA	081-679721	tangrisa@unina.it	
Immunosenescence signatures in inflammatory diseases	Immunosenescence is an age-related immunological failure with recurrent infection and increased mortality/immorbidity in the presence of persistent low-grade inflammation. Like other types of senescence, immunosenescence is characterized by impaired proliferation and DNA damage, which triggers the inflammatory senescence-associated secretory phenotype (SASP) and immunological dystiunction. Immunosenescence varies among individuals depending on age, comorbidities, and somatic mutation burden. This study aims to identify the molecular mechanisms underlying immunosenescence and find tools to reverse the phenotypes by correcting the DNA damage response in immune cells and ultimately reversing SASP-induced inflammation.	Borse finanziate PNRR ex D.M. 118 - Area Pubblica Amministrazione / Fellowship by PNRR ex D.M. 118 - Public Administration Area PNRR	Dipartimento di Biologia	> 6 months abroad PLUS >6 months in external location or company	Foreign Lab: Prof. Max E. Gottesman, Columbia University Herbert Irving Comprehensive Cancer Center New York, NY 10032 United States External Lab/Company in Italy (or abroad): IGA Technology Services Srl - Udine	PORCELLINI ANTONIC	081-679117	antonio.porcellini@unina.it	Per rientrare mella Linea M4C1, 4.1 (PA) Una formazione addizionale in 'abilità complementari' come la scrittura di articul, richieste di finanziamento, managements cientifico e gestione della proprietà intellettuale sara fornita da ricercation perami in vari ambiti anche favorendo la transizione digitale delle pubbliche amministrazioni (enti pubblici, centri e enti di ricerca).
Climate, environment, resources: new tools to contribute to the transition towards a resilient society	Climate change can represent a precise perspective for socio-economic recovery through adaptation strategies based on the use of biodiversity and ecosystem services. This project aims to innovate and harmonize methods and tools for the collection and management of biodiversity monitoring date; study the dynamics and trends to reverse its loss and promote its protection with in who and in vitro investigations; explore the best ways to manage the valorisation of waste in line with the new EU Circular Economy Action Plan.	Borse finanziate PNRR ex D.M. 118 - Area Ricerca PNRR / Fellowship by PNRR ex D.M. 118 Research Area PNRR	Dipartimento di Biologia	> 6 months abroad	Foreign Lab: Prof. MILAGROSA OLIVA RAMIREZ MARCHAROSA OLIVA RAMIREZ MARCHAROSA OLIVA RAMIREZ MARCHAROSA OLIVA REBORDINOS Department: Biomedicina, Biotecnologia y Salud PublicaResearch Instituto du investigación Marina (IMMAR) Universidad de Cádiz, Cadz SPAIN	O ROSARIA; GUERRIEI	081-2535217; 081-2535151	rosaria.scudiero@unina.it glulia.querriero@unina.it	
Non-invasive diagnostic methods applied to microbiological degradation of different heritage materials	The aim of the project is to carry out a laboratory study on the bioreceptivity of different artwork objects, starting from the Collections hold in the Reggia of Caserta Park. The Museum of Reggia presents XVII-XX Century paintings and sculptures, as well as a collection of contemporary art, the famous Terrae Motus exhibits. In the same time, the Archives of Reggia houses a large collection of Luigi Varvitetii manuscripts and projects, that also need specific conservation approaches. the project aim is to sample a range of works of artistic or historical interest using non-invasive methods by analyzing the composition of resident microbial populations. In a second phase, the most perspensatives components of these populations will be isolated, with the aim of creating artificial microbioms on which to perform bioreceptivity studies on different substrates, ranging from paper to photographic matrices, and stone materials	Borse finanziate PNRR / PNRR Fellowship - MUR PE0000020 CHANGES - Cultural Heritage Active Innovation for Next-Gen Sustainable Society - Spoke / tematica: Science and technologies for diagnostics of cultural heritage - CUP E53C22001650006.	Dipartimento di Biologia	> 6 months abroad		POLLIO ANTONINO			
Analysis of the impact of legumes and legume- derived postbiotics on human health by an in vitro and in vivo approach	Dietary guidelines from several organizations recommend increasing legume consumption and reducing red meat and derived products. Epidemiological studies incideat a possible association between higher legume consumption and decreased risk of cancer and cardiovascular disease. The focus of this PhD research project is the analysis of the metabolic and physiological effects of pulses consumption on health in a target human population with special regard to inflammation signaling and redox homeostasis, Also, the anti-inflaming impact of postbiotic fermented products from legumes or process waste on intestinal cells will be evaluated.	Borse finanziate PNRR / PNRR Fellowship - MUR PE00000003 ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security - Working ON Foods - Spoke / tematica: Food quality and nutrition - CUP E63C22002030007	Dipartimento di Biologia	> 6 months abroad	Dr Fiorenzano Lab Developmental and Regenerative Neurobiology, Wallenberg Neuroscience Center, and Lund Stem Cell Center, Department of Experimental Medical Science, Lund University (Lund, Sweden)	CIGLIANO LUISA			ON FoodPNRR PE10: Strategic emerging topic: HUMAN WELLBEING Cluster: Health Sub Cluster: 3. Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods – ON Foods PE10 - Reference spoke: 4
Setting up of innovative in vitro and ex-vive model as an approach to understanding skin disease	Le malattie infiammatorie della pelle rappresentano un gruppo eterogeneo di malattie e sono caratterizzate da una risposta anormale a sistimdi endogeni o esogeni, con l'inizio e la perpetucione di un processo infiammatorio che diventa cronico con manifestazioni cliniche associate ad eritema, squame o prunto. In questo progetto, mediante l'uso di co-ulture cellulari di cheratinocii, cellule dell'epidermide, cellule nervose ed immunitarie, cercheremo di comprendere le pattiway molecotari alla base dell'interazione, di processo di innervazione, di difesa ed invecchiamento della pelle. Il progetto prevederà anche l'uso di sistemi di live imaging, utilizzando principalmente il modello ex vivo, in particolare espianti di pelle. Lo scopo ultimo sarà quello di determinare i meccanismi fisiopatologica il base dei processi di infiammazione ed in particolare della "sensitive skin", al fine di dentificare composili naturali capaci di modulare tali pathwaye e ndurre l'infiammazione.	Borsa finanziata PNRR ex D.M. 117 - cofinanziata da Arterra Bioscience S.p.A / Fellowship PNRR ex D.M. 117 - cofinancing by Arterra Bioscience S.p.A	Arterra Bioscience S.p.A. Via Benedetto Brin	> 3 months abroad	Sede Estero: Prof. Vincenzo Fogliano e Prof. J van der Gucht University of Wageningen The Netherlands	IVAN CONTE	081-679370	annalisa@arterrabio.it	PNRR tematica Evoluzione del monitoraggio della biodiversità: applicazioni a livello regionale e nazionale]

Fabrication and functional characterization of engineered living materials for biomedical applications	The proposal aims to develop new in vivo models to produce and characterize a new class of engineered living materials, integrated into the living dissues and able to modulate biological processes. This general goal will be accomplished through integrated approaches of animal, cell and molecular biology, using in vivo and in vitro models (inventerbrates, cultured cells) leading to a full comprehension of the mechanisms underlying fiber biogenesis and the impact of the hybrid material on cell and animal physiology.	Borsa manziata su convenzione finanziata da Istituto di Scienze Applicate e Sistemi Intelligenti "Eduardo Caianiello" (ISASI-CNR) / Fellowshp on agreement with (and sustained by) Istituto di Scienze Applicate e Sistemi Intelligenti	ISASI-CNR	> 3 months abroad	Sedi Estero: Orit Shefi (Bar Ilan University, Tel Aviv, Israel). Eleni Stavrinidou, Linkoping University, Norrkoping, Sweden	CLAUDIA 3 TORTIGLIONE	081 8675306	c.tortiglione@isasi.cnr.it	(Finanziamento USAF OFFICE OF SCIENTIFIC RESEARCH - AFOSR)
	PROVISORY TITLE: Evoluzione del monitoraggio della biodiversità: applicazioni a livello regionale e nazionale /Evolution of biodiversity monitoring: at regional and national level	Borsa finanziata PNRR ex D.M. 117 - cofinanziata da Centro Italiano Ricerche Aerospaziali (CIRA S.C.p.A.)/ Fellowship PNRR ex D.M. 117 - cofinancing by Centro Italiano Ricerche Aerospaziali (CIRA S.C.p.A.)	Centro Italiano Ricerche Aerospaziali (CIRA S.C.p.A.)	> 3 months abroad	To Be established	SIMONETTA FRASCHETTI		simonetta.fraschetti@unin a.it	PNRR tematica Evoluzione del monitoraggio della biodiversità: applicazioni a livello regionale e nazionale]
"BlueRemediomics: Harnessing the marine microbiome for novel sustainable biogenics and ecosystem services	****pending approvation****	Borsa finanziata su convenzione finanziata da Stazione Zoologica "Anton Dohrn" - Napoli / Fellowshp on agreement with (and sustained by)Stazione Zoologica "Anton Dohrn" - Napoli	Stazione Zoologica "Anton Dohrn" - Napoli	> 3 months abroad		Dott.ssa Donatella de Pascale (SZN) - Prof. DONATO GIOVANNELL (Dept. Biology)	1		
Chito-oligosaccharides treatments to improve symbiotic performances in the model legume L. japonicus.	Short-chain chito-oligosaccharides (COs) are signalling molecules released by arbuscular mycorrhizas (AM) (ungl. Preliminary investigations demonstrated the effectiveness of COs as stimulators of AM establishment and plant biomass production, but the mechanisms of action of COs. is largely unknown. The capacity of legumes plants to establish a mutualistic symbiotic interaction with ritzobia, makes them the major natural N-provider to the ecosystem. The main goal of this project is to study how COs impacts on the development and efficiency of symbiotic nitrogen fibation (SNF) and their effects on plant to particular, we will study. - Melecular analysis of COs effects on SNF, through the analysis of SNF marker gene expression in the host plant Lotts approxics. - Impact of N and P availability on CO-dependent promotion of symbiosis. - Isolation and functional characterization of LORE's in insertion mutants of NPF, NRT2 and other genes involved in nutritional and COs responses.	senza borsa (possono essere presenti altri sostegni economici) /without fellowship (other economic sustain may occur)	IBBR/CNR Via P. Castellino	> 3 months abroad	Prof. Simona Radutolu, Department of Molecular Biology and Genetics, Aarhus University, Aarhus, Denmark, Prof. Beneti Lacombe, CNRS, Institut National de la Recherche Recherche SupAgro/Univers the de Mortpalieri. Mortpalier, France. Prof. Seppo Vainio, Developmental Biology Laboratory, University of Oulu, Oulu, Finland.	Vladimir Volkov/Maurizio Chiurazzi	++39 081 6132434 ++39 081-6132433	vladimir, valkov@ibbr.cnr.it maurizio.chiurazzi@ibbr.cn r.it	
miRNAs deregulated in NAFLD and effect of bioactive molecules on their expression	miRNAs expression alterations are associated with different pathologies including cancer, and their expression can be used for prognostic/diagnostic purposes. Bloactive molecules introduced with food can regulate the expression of genes and miRNAs exerting beneficial effects. The project aims to evaluate dregulated miRNAs associated with NAFLD (Nanachonibic Farty Liver Disease) and to identify bioactive molecules present in foods capable of modulating their expression. miRNAs analysis from NAFLD and healthy subjects will be used to define a set of miRNAs associated with the disease. Then using cellular models of hepatic cancer, the ability of bioactive molecules to modulate their expression will be evaluated.	senza borsa (possono essere presenti altri sostegni economici) /without fellowship (other economic sustain may occur)	IBBR-CNR - Area di Ricerca Via Pietro Castellino, 111 Napoli.	> 3 months abroad	Almudena Gómez-Hernández, Biochemistry and Molecular Biology Department, School of Pharmacy, Complutense University of Madrid, Madrid, Spain Romain Barrès - Institut de Pharmacologie Moléculaire et Cellulaire, Université Côte d'Azur and CNRS, Valbonne, France	Stefania Crispi	off ++39081 6132622 lab ++39081 6132719	stefania.crispi@lbbr.cnr.it	
Anti-neuroinflammatory Potential of Natural Products	Neuroinflammation contributes to onset and progression of neurodegenerative diseases. Hyperactivation of microgial trigggres excessive release of proinflammatory mediators that impair blood-brain barrier permeability and neuronal survival. In this research field, natural products and derivatives, constitute a Twis sport, above all for their ole in regulation of the inflammatory pathway, target in these pathologies. This project aims to explore the anti-inflammatory mechanism of natural molecules, starting from a screening for the identification of active products and the development of an in vitro analysis system for characterization of invostive targets and potential pharmaceutical leads in the treatment of neurodegenerative diseases.	senza borsa (possono essere presenti altri sostegni economici) /without fellowship (other economic sustain may occur)	ICB-CNR - Area di Ricerca Via Pietro Castellino, 111 Napoli.	> 3 months abroad		Carmen Gallo	081 6132223	carmen.gallo@icb.cnr.it	
Hygienic-sanitary quality of food products: development of innovative, effective and eco-compatible biodisinfectants	Cases of diseases caused by foods contaminated by pathogens (Salmonella spp. Escherichia coil, Listeria monocytogenes) are increasing globally, producing strong impacts on the health of consumers, manufacturers and retailers. Therefore, there is an urgent need to develop alternative strategies for sanitizing the workplaces to increase the safety of these products. In this context, the purpose of the project will be to formulate innovative, effective and eco-compatible distinctant solutions, based on antimicrobial peptides of natural origin, aimed at abolishing the use of highly polluting and took chemicals currently used.	senza borsa (possono essere presenti altri sostegni economici) /without fellowship (other economic sustain may occur)	IBBR-CNR - Area di Ricerca Via Pietro Castellino, 111 Napoli.	> 3 months abroad	Laboratory of Molecular Cell Biomedicine, University of the Balearic Islands, 07122 Palma, Spain, Prof Pablo V. Escribá	Gianna Palmieri	++39-081-6132711	gianna.palmieri@ibbr.cnr.it	National Project (2023-2025): "Uso di pepidi Antimicrobici negli alimenti pronti al consumo: un aPproccio 'green' per contrastare i risCHi di contaminazionE microbiologica e per ridurne l'impatico sulla salute pubblica (APACHE)." Ricerca Corrente 2022 IZS 10/22 RC. Unit. Funding Agency: Ministero della Salute
Chemistry signaling of the eco physiological mechanisms in marine opisihobranchs	Opiathobranchs are meluses with little or no shell. According to hybogenatic analyses, shell reductation is related to the evolution of signaling strategies that compounds used during feeding, accurate and state of the experiment of these moderates, as well as physiological role and potential in pharmaceutical applications.	senza borsa (possono essere presenti altri sostegni economici) /without fellowship (other economic sustain may occur)	Laboratorio Prof. Fontana, Dipartimento di Biologia dell'Università degli Studio di Napoli Federico II, Via Cinthia 21, Napoli Laboratorio Sostanze, Naturali, Consiglio Nazionale delel Ricerche – Istituto di Chimica Biomolecolare, Via Campi Flegrei 34, Pozzuoli Napoli	> 3 months abroad	MARHE. The marine Research and high Education Center, dell'Università di Bicocca, sull'isola di Magoodhoo nell'Arcipelago delle Matdive.	Giuliana D'Ippolito	081 8675096	gdippolito@icb.cnr.it	Fondi dell'Istituto di Chimica Biomolecolare derivanti da progetti esterni su bioprospecting e sviluppo di composti per uso medico

Project Title

Selection of bioindicators of soil quality

The impact of Nutrition on Brain Metabolism and Disease

Characterization of posttranslational modifications of the different isoforms of glucose-6P dehydrogenase from plant and algal sources

Emerging pollutants and metabolic adaptations to hypoxia in Danio Rerio

Environmental pollution and human fertility: genomics, proteomics, and metabolomics studies

Antibiofilm strategies: repurposed non-antifungal approved drugs for the synergistic targeting of fungal pathogens

Alzheimer's and Frontotemporal Disease: identification and characterization of genetic factors

Modulation of the intestinal microbiota by probiotic spores displaying microbiotatargeting molecules

New advances in Invertebrate-borne diseases Research INVIATA MAIL PER ABSTRACT INGLESE

Generation of preeclampsia in vitro model system to identify a personalised therapeutic approach

Immunosenescence signatures in inflammatory diseases

Climate, environment, resources: new tools to contribute to the transition towards a resilient society

Non-invasive diagnostic methods applied to microbiological degradation of different heritage materials

Analysis of the impact of legumes and legume-derived postbiotics on human health by an in vitro and in vivo approach

Setting up of innovative in vitro and ex-vivo model as an approach to understanding skin disease INVIATA MAIL PER ABSTRACT IN INGLESE

Fabrication and functional characterization of engineered living materials for biomedical applications

"BlueRemediomics: Harnessing the marine microbiome for novel sustainable biogenics and ecosystem services **Chito-oligosaccharides** treatments to improve symbiotic performances in the model legume L. japonicus. miRNAs deregulated in NAFLD and effect of bioactive molecules on their expression

Hygienic-sanitary quality of food products: development of innovative, effective and eco-compatible biodisinfectants
Chemistry signaling of the eco- physiological mechanisms in marine opisthobranchs

Short Description (100 parole / 600 caratteri spazi inclusi)	Fellowship
Recently, to preserve the level of naturalness of terrestrial ecosystems or to draft management plans aiming to restore or rehabilitate environments that are degraded or severely damaged are of great concern. In this framework, the research aims to assess the role of soil as carbon sink and as system hosting biodiversity. To achieve the aim, the research will be performed in forest and manmade ecosystems. The structural and functional biodiversity of microorganisms (bacteria and fungi) and microarthropods will be studied. The results will increase the current knowledge about edaphic biodiversity and will provide the identification of bioindicators of soil quality.	Borse finanziate dall'Ateneo. Full Fellowship by University of Naples "Federico II"
In recent decades, the link between nutrition, brain health and risk of central nervous system pathologies was highlighted. Brain status strongly depends on energy availability and diet can deeply impact brain functions like synaptic plasticity, cognitive processes, neuroendocrine functions and behaviour, thus affecting health. Diet manipulation, i.e. both dietary supplement (such as sugars, fatty acids) has considerable effects on brain physiology and could be of particular importance in the context of global human aging, which is associated with the increase of neurodegenerative diseases. How different diets/nutritional strategies (from single micro/macronutrient to complex foods and/or functional food particularly probiotics, and postbiotics) modulate brain function, with special regard to its metabolism, redox homeostasis, insulin signaling, neuroinflammation, gut/brain axis, and synaptic function is the focus of this PhD research project proposal	Borse finanziate dall'Ateneo. Full Fellowship by University of Naples "Federico II"
The project aims to clarify the regulation of plant glucose 6-phosphate dehydrogenase in the response to abiotic stress and in the diversion of metabolim to the synthesis of secondary metabolites. A main point is to define the posttranslational modifications present on the different G6PDHs, with a particular regard to glutathionylation and O-GlcNAcetylation. Using the facilities present at Sorbonne University in Paris, the 3D structure of the plant enzyme will be possibly determined, in order to describe the assembly and regulation of the activity, that has been elusive to plant biologists until today	Borse finanziate dall'Ateneo. Full Fellowship by University of Naples "Federico II"
Some antihypertensive drugs are considered emerging water pollutants. These in teleost could alter physiological pathways involved in the response to hypoxic stress due to natural or anthropogenic causes. Among the anthropic factors of hypoxia, there is the spillage of nitrites and nitrates into the waters, coming from civil and or industrial waste, which reduces the transport of O2 in the fish, causing the formation of methaemoglobin. The project aims to study the influence of antihypertensive drugs on the metabolic response and redox metabolism to nitrites and nitrates-induced hypoxia using Danio rerio as an experimental model.	Borse finanziate PNRR ex D.M. 118 - Area Ricerca PNRR

This multidisciplinary project will focus on assessing alterations in the semen of subjects living in areas of high environmental impact and on understanding the **Borse finanziate PNRR** molecular mechanisms of the reproductive toxicity of environmental pollutants ex D.M. 118 - Area using proteomics, genomics and metabolomics approaches. This is because Ricerca PNRR / there has been a drastic decline in the quality of human semen in industrialised Fellowship by PNRR ex countries over the last 40 years. Finally, the model organism Mytilus D.M. 118 Research Area galloprovincialis will be used to assess the effects of certain environmental **PNRR** pollutants on spermatozoa under controlled conditions. Antifungal drug resistance has emerged as a major challenge and fungal biofilms are important virulence factors correlated with invasive fungal infections. **Borse finanziate PNRR** A possible approach to overcome the problem is the "repurposing strategy". The ex D.M. 118 - Area research project presents strong public health implications and has two aims: the isolation of Candida albicans and non from human districts which are associated Ricerca PNRR / with biofilm formation, and in vitro and in vivo evaluation of the effects of Fellowship by PNRR ex promising new anti-biofilm molecules alone or in combination with conventional D.M. 118 Research Area drugs. The effectiveness of the examined molecules will be evaluated with **PNRR** respect to the host-pathogen interactions (infection, adherence, and invasion assays) by using mammalian cell lines as models. Alzheimer's disease (AD) and frontotemporal dementia (FTD) are the two most common forms of neurodegenerative diseases. To date, only a few causative genes of AD and FTD have been described. **Borse finanziate PNRR** The proposed project has a dual objective: ex D.M. 118 - Area 1.identify new genetic determinants for AD and FTD, through the acquisition of Ricerca PNRR / Whole Genome Sequencing (WGS) genomic data from clinically well-Fellowship by PNRR ex characterized and selected patient cohorts. D.M. 118 Research Area 2.Use genome editing approaches for the generation of functional cellular **PNRR** models to study the relationship between genes related to neurodegenerative diseases. **Borse finanziate PNRR** Alterations of the gut microbiota induce a variety of metabolic and inflammatory ex D.M. 118 - Area disorders and a number of microbiota-targeting approaches have been proposed **Transizione Ambientale** to modulate its composition. Here we propose a new microbiota-targeting approach based on the delivery of selected molecules by spores of probiotic e Digitale / Fellowship strains of Bacillus, known to modulate the microbial composition of the gut. The by PNRR ex D.M. 118 probiotic spores and the molecules adsorbed on their surface are expected to Digital and have synergistic effects on the gut microbiota, contributing to prevent the onset **Environmental** of metabolic and inflammatory damages. **Transition Area PNRR**

Le malattie trasmesse dagli invertebrati negli animali e nell'uomo sono di crescente interesse per la comunità scientifica a causa della loro diffusione in nuove aree e del loro elevato potenziale zoonotico. La loro distribuzione globale è causata da diversi drivers che contribuiscono alla diffusione dei vettori e dei **Borse finanziate PNRR** patogeni, e alla loro introduzione nelle regioni non endemiche. Inoltre, ex D.M. 118 - Area l'interazione di animali selvatici e domestici che condividono ambienti, vettori e **Pubblica** malattie con gli esseri umani è cruciale nell'epidemiologia di queste malattie che Amministrazione / spesso impattano sulla biodiversità, come dimostrano i sempre crescenti episodi Fellowship by PNRR ex di mortalità di massa di specie chiave da un punto di vista ecologico. I molluschi **D.M. 118 - Public** e gli insetti possono trasmettere una vasta gamma di agenti patogeni dell'uomo **Administration Area** e degli animali, i quali possono incidere negativamente non solo in termini **PNRR** sanitari, ma anche in termini produttivi ed ecologici. Questo studio si prefigge di implementare nuove strategie di sorveglianza e mitigazione utili per la prevenzione di nuovi focolai epidemici e la conservazione della salute e del benessere umano-animale anche a tutela della biodiversità. Borse finanziate PNRR ex D.M. 118 - Area Preeclampsia contributes significantly to pregnancy-associated morbidity and **Transizione Ambientale** mortality. The project proposes identifying novel biomarkers to distinguish, e Digitale / Fellowship characterize and monitor the different inflammatory stages of preeclampsia and by PNRR ex D.M. 118 simultaneously use them as therapeutic targets for naturally occurring Digital and compounds. **Environmental Transition Area PNRR** Immunosenescence is an age-related immunological failure with recurrent infection and increased mortality/morbidity in the presence of persistent low-**Borse finanziate PNRR** grade inflammation. Like other types of senescence, immunosenescence is ex D.M. 118 - Area characterized by impaired proliferation and DNA damage, which triggers the **Pubblica** inflammatory senescence-associated secretory phenotype (SASP) and Amministrazione / immunological dysfunction. Immunosenescence varies among individuals Fellowship by PNRR ex depending on age, comorbidities, and somatic mutation burden. **D.M. 118 - Public** This study aims to identify the molecular mechanisms underlying **Administration Area** immunosenescence and find tools to reverse the phenotypes by correcting the **PNRR** DNA damage response in immune cells and ultimately reversing SASP-induced inflammation. Climate change can represent a precise perspective for socio-economic **Borse finanziate PNRR** recovery through adaptation strategies based on the use of biodiversity and ex D.M. 118 - Area ecosystem services. This project aims to innovate and harmonize methods and Ricerca PNRR / tools for the collection and management of biodiversity monitoring data; study Fellowship by PNRR ex the dynamics and trends to reverse its loss and promote its protection with in D.M. 118 Research Area vivo and in vitro investigations; explore the best ways to manage the valorisation **PNRR** of waste in line with the new EU Circular Economy Action Plan.

The aim of the project is to carry out a laboratory study on the bioreceptivity of different artwork objects, starting from the Collections hold in the Reggia of Caserta Park. The Museum of Reggia presents XVII-XIX Century paintings and sculptures, as well as a collection of contemporary art, the famous Terrae Motus exhibits. In the same time, the Archives of Reggia houses a large collection of Luigi Vanvitelli manuscripts and projects, that also need specific conservation approaches, the project aims to sample a range of works of artistic or historical interest using non-invasive methods by analyzing the composition of resident microbial populations. In a second phase, the most representative components of these populations will be isolated, with the aim of creating artificial microbiomes on which to perform bioreceptivity studies on different substrates, ranging from paper to photographic matrices, and stone materials

Borse finanziate PNRR / PNRR Fellowship - MUR PE00000020 CHANGES Cultural Heritage Active Innovation for Next-Gen Sustainable Society - Spoke / tematica: Science and technologies for diagnostics of cultural heritage – CUP E53C22001650006.

Dietary guidelines from several organizations recommend increasing legume consumption and reducing red meat and derived products. Epidemiological studies indicate a possible association between higher legume consumption and decreased risk of cancer and cardiovascular disease. The focus of this PhD research project is the analysis of the metabolic and physiological effects of pulses consumption on health in a target human population with special regard to inflammation signaling and redox homeostasis, Also, the anti-inflammatory impact of postbiotic fermented products from legumes or process waste on intestinal cells will be evaluated.

Borse finanziate PNRR / PNRR Fellowship - MUR PE00000003 ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods - Spoke / tematica: Food quality and nutrition – CUP E63C22002030007

Le malattie infiammatorie della pelle rappresentano un gruppo eterogeneo di malattie e sono caratterizzate da una risposta anormale a stimoli endogeni o esogeni, con l'inizio e la perpetuazione di un processo infiammatorio che diventa cronico con manifestazioni cliniche associate ad eritema, squame o prurito. In questo progetto, mediante l'uso di co-culture cellulari di cheratinociti, cellule dell'epidermide, cellule nervose ed immunitarie, cercheremo di comprendere le pathway molecolari alla base dell'interazione, dei processi di innervazione, di difesa ed invecchiamento della pelle. Il progetto prevederà anche l'uso di sistemi di live imaging, utilizzando principalmente il modello ex vivo, in particolare espianti di pelle. Lo scopo ultimo sarà quello di determinare i meccanismi fisiopatologici alla base dei processi di infiammazione ed in particolare della "sensitive skin", al fine di identificare composti naturali capaci di modulare tali pathways e ridurre l'infiammazione.

Borsa finanziata PNRR ex D.M. 117 - cofinanziata da Arterra Bioscience S.p.A / Fellowship PNRR ex D.M. 117 - cofinancing by Arterra Bioscience S.p.A

The proposal aims to develop new in vivo models to produce and characterize a new class of engineered living materials, integrated into the living tissues and able to modulate biological processes. This general goal will be accomplished through integrated approaches of animal, cell and molecular biology, using in vivo and in vitro models (invertebrates, cultured cells) leading to a full comprehension of the mechanisms underlying fiber biogenesis and the impact of the hybrid material on cell and animal physiology.

Borsa finanziata su convenzione finanziata da Istituto di Scienze Applicate e Sistemi Intelligenti "Eduardo Caianiello" (ISASI-CNR) / Fellowshp on agreement with (and sustained by) Istituto di Scienze Applicate e Sistemi Intelligenti "Eduardo

Borsa finanziata PNRR ex D.M. 117 cofinanziata da Centro Italiano Ricerche Aerospaziali (CIRA S.C.p.A.)/ Fellowship PNRR ex D.M. 117 cofinancing by Centro Italiano Ricerche Aerospaziali (CIRA CnAConvenzione PNRR CN5 Borsa finanziata su convenzione finanziata da Stazione Zoologica "Anton Dohrn" - Napoli / Fellowshp on agreement ****pending approvation**** with (and sustained by)Stazione Zoologica "Anton Dohrn" - Napoli Short-chain chito-oligosaccharides (COs) are signalling molecules released by senza borsa (possono arbuscular mycorrhizas (AM) fungi. Preliminary investigations demonstrated the essere presenti altri effectiveness of COs as stimulators of AM establishment and plant biomass sostegni economici) production, but the mechanisms of action of COs. is largely unknown. /without fellowship The capacity of legumes plants to establish a mutualistic symbiotic interaction (other economic sustain with rhizobia, makes them the major natural N-provider to the ecosystem. may occur) The main goal of this project is to study how COs impacts on the development and efficiency of symbiotic nitrogen fixation (SNF) and their effects on plant metabolism and nutrition. In particular, we will study: - Molecular analysis of COs effects on SNF, through the analysis of SNF marker gene expression in the host plant Lotus japonicus. - Impact of N and P availability on CO-dependent promotion of symbiosis. - Isolation and functional characterization of LORE1 insertion mutants of NPF, NRT2 and other genes involved in nutritional and COs responses. miRNAs expression alterations are associated with different pathologies senza borsa (possono including cancer, and their expression can be used for prognostic/diagnostic essere presenti altri purposes. Bioactive molecules introduced with food can regulate the expression sostegni economici) of genes and miRNAs exerting beneficial effects. The project aims to evaluate /without fellowship deregulated miRNAs associated with NAFLD (Nonalcoholic Fatty Liver Disease) (other economic sustain and to identify bioactive molecules present in foods capable of modulating their may occur) expression. miRNAs analysis from NAFLD and healthy subjects will be used to define a set of miRNAs associated with the disease. Then using cellular models of hepatic cancer, the ability of bioactive molecules to modulate their expression will be evaluated.

Neuroinflammation contributes to onset and progression of neurodegenerative diseases. Hyperactivation of microglia triggers excessive release of proinflammatory mediators that impair blood-brain barrier permeability and neuronal survival. In this research field, natural products and derivatives, constitute a "hot spot", above all for their role in regulation of the inflammatory pathway, target in these pathologies. This project aims to explore the anti-inflammatory mechanism of natural molecules, starting from a screening for the identification of active products and the development of an in vitro analysis system for characterization of innovative targets and potential pharmaceutical leads in the treatment of neurodegenerative diseases.

senza borsa (possono essere presenti altri sostegni economici) /without fellowship (other economic sustain may occur)

Cases of diseases caused by foods contaminated by pathogens (Salmonella spp, Escherichia coli, Listeria monocytogenes) are increasing globally, producing strong impacts on the health of consumers, manufacturers and retailers. Therefore, there is an urgent need to develop alternative strategies for sanitizing the workplaces to increase the safety of these products.

the workplaces to increase the safety of these products.

In this context, the purpose of the project will be to formulate innovative, effective and eco-compatible disinfectant solutions, based on antimicrobial peptides of natural origin, aimed at abolishing the use of highly polluting and toxic chemicals currently used.

senza borsa (possono essere presenti altri sostegni economici) /without fellowship (other economic sustain may occur)

Opisthobranchs are molluscs with little or no shell. According to phylogenetic analyses, shell reduction is related to the evolution of signaling strategies that include color warning, anatomical structures, and several small organic compounds used during feeding, mating, and defense. Not infrequently, these molecules have also become very famous in all natural and even medical sciences, being the active components of new drugs or ligands of physiologically central receptors. It is not clear whether the acquisition of these chemicals is a prerequisite for the reduction of the shell, or if the reduction had occurred earlier. However, it is well known that the molecules used by opisthobranchs derive from selective accumulation from the environment by feeding on producer organisms or biosynthesized de novo by snails. Here it is proposed to study the biological and chemical characteristics of these molecules, as well as their biosynthetic origin. A particular attention will be paid to their eco-physiological role and potential in pharmaceutical applications

senza borsa (possono essere presenti altri sostegni economici) /without fellowship (other economic sustain may occur)

senza borsa

senza borsa

Main Department	Periods Abroad / Periods in external location or company	Foreign Lab / External location in Italy or abroad
Dipartimento di Biologia	> 3 months abroad	Foreign Lab: Centre d'Ecologie Fonctionnelle et Evolutive, Université Paul-Valéry, Montpellier III (Prof. Jérôme Cortet)
Dipartimento di Biologia	> 3 months abroad	Foreign Lab: Dr Fiorenzano - Lab Developmental and Regenerative Neurobiology, Wallenberg Neuroscience Center, and Lund Stem Cell Center, Department of Experimental Medical Science, Lund University (Sweden)
Dipartimento di Biologia	> 3 months abroad	Foreign Lab: Prof. Stephane Lemaire - Laboratoire de Biologie Moléculaire et Cellulaire des Eucaryotes - Institut de Biologie Physico- Chimique, Universitè Pierre et Marie Curie - Universitè de Sorbonne – Paris (France)
Dipartimento di Biologia	> 6 months abroad	Foreign Lab: Faculdade de Ciências da Universidade de Lisboa, Lisboa, Campo Grande, 1749-016, Portugal

Dipartimento di Biologia	> 6 months abroad	Foreign Lab: Dr. Marc Yeste Oliveras - Research group Biotecnologia de la Reproducció Animal i Humana - Department di BIOLOGIA - Universitat de Girona - Spain
		Oniversitat de Gilona Opain
Dipartimento di Biologia	> 6 months abroad	Foreign Lab: Dr. Eddie Cytryn, Soil, Water and Environmental Sciences, Soil Chemistry, Plant Nutrition and Microbiology, Institute of Soil, Water and Environmental Sciences Volcani Institute Agricultural Research Organization, Bet Dagan, Israel
Dipartimento di Biologia	> 6 months abroad	Foreign Lab: Prof. Ana María Sánchez-Pérez, presso il Neurobiotechnology Lab, INAM (Institute of Advanced Materials), University of Jaume I, Castellon, Spain
Dipartimento di Biologia	> 6 months abroad PLUS >6 months in external location or company	Foreign Lab: Prof. Simon M. Cutting School of Biological Sciences Royal Holloway University of London Surrey, UK External Lab/Company in Italy (or abroad): SporeGen Limited The London BioScience Innovation Centre London, UK

Dipartimento di Biologia	> 6 months abroad PLUS >6 months in external location or company	Foreign Lab: University of Veterinary Medicine - Dept- of Pathobiology - Vienna External Lab/Company in Italy (or abroad) : Istituto Zooprofilattico Sperimentale del Mezzogiorno (Napoli)
Dipartimento di Biologia	> 6 months abroad PLUS >6 months in external location or company	Foreign Lab: Dina Simes Universidade do Algarve, Faculdade de Ciencias e tecnologias External Lab/Company in Italy (or abroad) : Arterra Biosceinces - Napoli
Dipartimento di Biologia	> 6 months abroad PLUS >6 months in external location or company	Foreign Lab: Prof. Max E. Gottesman, Columbia University Herbert Irving Comprehensive Cancer Center New York, NY 10032 United States External Lab/Company in Italy (or abroad): IGA Technology Services Srl - Udine
Dipartimento di Biologia	> 6 months abroad	Foreign Lab: Prof. MILAGROSA OLIVA RAMIREZ Department of Biology Universidad de Cádiz, Cadiz SPAIN Foreign Lab: Prof. LAUREANA REBORDINOS Department: Biomedicina, Biotecnología y Salud PúblicaResearch Instituto de Investigación Marina (INMAR) Universidad de Cádiz, Cadiz SPAIN

Dipartimento di Biologia		
Dipartimento di Biologia	> 6 months abroad	
Dipartimento di Biologia	> 6 months abroad	Dr Fiorenzano Lab Developmental and Regenerative Neurobiology, Wallenberg Neuroscience Center, and Lund Stem Cell Center, Department of Experimental Medical Science, Lund University (Lund, Sweden)
Arterra Bioscience S.p.A Via Benedetto Brin	> 3 months abroad	Sede Estero: Prof. Vincenzo Fogliano e Prof. J van der Gucht University of Wageningen The Netherlands
ISASI-CNR	> 3 months abroad	Sedi Estero: Orit Shefi (Bar Ilan University, Tel Aviv, Israel). Eleni Stavrinidou, Linkoping University, Norrkoping, Sweden

Centro Italiano Ricerche		
Aerospaziali (CIRA S.C.p.A.)		
	> 3 months abroad	
ISMAR CNR (BO)		
Stazione Zoologica "Anton		
Dohrn" - Napoli		
IBBR/CNR Via P. Castellino		Prof. Simona Radutoiu,
IBBITOITE VIA 1 : Gastellillo		Department of Molecular
		Biology and Genetics, Aarhus
		University, Aarhus, Denmark.
		Prof. Benoit Lacombe, CNRS,
		Institut National de la
		Recherche
		Agronomique/SupAgro/Univers
	> 3 months abroad	ité de Montpellier, Montpellier,
		France. Prof. Seppo Vainio,
		Developmental Biology
		Laboratory, University of Oulu,
		Oulu, Finland.
IBBR-CNR - Area di Ricerca		Almudena Gómez-Hernández,
Via Pietro Castellino, 111		Biochemistry and Molecular
Napoli.		Biology Department, School of
		Pharmacy, Complutense
		University of Madrid, Madrid,
	> 3 months abroad	Spain
		Romain Barrès - Institut de
		Pharmacologie Moléculaire et
		Cellulaire, Université Côte
		d'Azur and CNRS, Valbonne, France
		France

ICB-CNR - Area di Ricerca Via Pietro Castellino, 111 Napoli.	> 3 months abroad	
IBBR-CNR - Area di Ricerca Via Pietro Castellino, 111 Napoli.	> 3 months abroad	Laboratory of Molecular Cell Biomedicine, University of the Balearic Islands, 07122 Palma, Spain, Prof Pablo V. Escribá
Laboratorio Prof. Fontana, Dipartimento di Biologia dell'Università degli Studio di Napoli Federico II, Via Cinthia 21, Napoli Laboratorio Sostanze Naturali, Consiglio Nazionale delel Ricerche – Istituto di Chimica Biomolecolare, Via Campi Flegrei 34, Pozzuoli Napoli	> 3 months abroad	MARHE, The marine Research and high Education Center, dell'Università di Bicocca, sull'isola di Magoodhoo nell'Arcipelago delle Maldive.
CNR IBBR		

PROPONENT	Tel	E-mail
MAISTO GIULIA	081-679095	giulia.maisto@unina.it
CIGLIANO LUISA	081-2535215 081-2535244	luisa.cigliano@unina.it
ESPOSITO SERGIO	081-679124	sergio.esposito@unina.it
VENDITTI PAOLA	081-2535080 081-2535082	paola.venditti@unina.it.

PISCOPO MARINA	081-679081	marina.piscopo@unina.it
GALDIERO EMILIA	081-679181 081-679182	egaldier@unina.it
DONIZETTI ALDO	<u>++39-081-679082</u>	aldo.donizetti@unina.it
RICCA EZIO	081-679036	ericca@unina.it

DE VICO GIONATA	081-2535149 081-2535134	gionata.devico@unina.it
ANGRISANO TIZIANA	081-679721	tangrisa@unina.it
PORCELLINI ANTONIO	081-679117	antonio.porcellini@unina.it
ERO ROSARIA; GUERRIERO (081-2535217; 081-2535151	rosaria.scudiero@unina.it giulia.guerriero@unina.it

POLLIO ANTONINO		
CIGLIANO LUISA		
IVAN CONTE	081-679370	annalisa@arterrabio.it
IVAN CONTE CLAUDIA TORTIGLIONE	081-679370 081 8675306	annalisa@arterrabio.it c.tortiglione@isasi.cnr.it

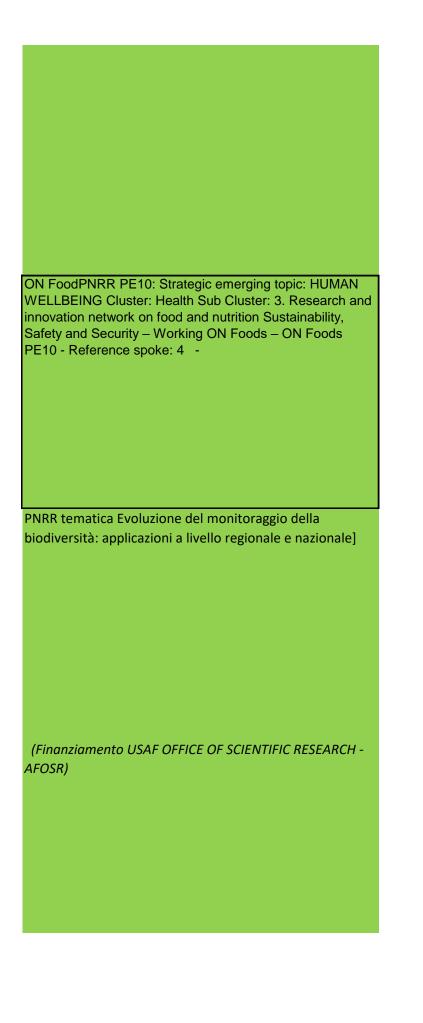
CIMONETTA EDACOUETTI		aimanatta frasahatti@isa it
SIMONETTA FRASCHETTI		simonetta.fraschetti@unina.it
FEDERICA FOGLINI	051 6398872	federica.foglini@bo.ismar.cnr.it
Dott.ssa Donatella de Pascale (SZN) - DONATO GIOVANNELLI		
Vladimir Volkov/Maurizio	++39 081 6132434	vladimir.valkov@ibbr.cnr.it_
Chiurazzi	++39 081-6132433	maurizio.chiurazzi@ibbr.cnr.it
Stefania Crispi	off ++39081 6132622 lab ++39081 6132719	stefania.crispi@ibbr.cnr.it

Carmen Gallo	081 6132223	carmen.gallo@icb.cnr.it
Gianna Palmieri	++39-081-6132711	gianna.palmieri@ibbr.cnr.it
Giuliana D'Ippolito	081 8675096	gdippolito@icb.cnr.it
Paolo Bergamo Giuseppe saccone Giovanna Romano		

Comments	

L'attività è coerente con le Linee guida per le "Iniziative di
sistema della Missione 4: Istruzione e Ricerca - Componente 2: dalla ricerca all'impresa", che si rifanno a tecnologie abilitanti, coerenti con le misure previste dal PNR 2021-2027. In particolare, la proposta riguarda aree disciplinari e tematiche coerenti con la transizione ecologica e ambientale del PNR negli ambiti PRODOTTI ALIMENTARI, BIOECONOMIA, RISORSE NATURALI, AGRICOLTURA, AMBIENTE, area Scienza e tecnologia alimentari (articolazioni 3 e 4).

Per rientrare mella Linea M4C1, 4.1 (PA) Una formazione	
indizionale in "abilità complementari" come la scrittura di inticoli, richieste di finanziamento, management scientifico e gestione della proprietà intellettuale sarà fornita da icercatori operanti in vari ambiti anche favorendo la ransizione digitale delle pubbliche amministrazioni (enti subblici, centri e enti di ricerca).	



PNRR tematica Evoluzione del monitoraggio della biodiversità: applicazioni a livello regionale e nazionale]	

