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

## UPDATE AUGUST 1ST

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 a simple to restore or rehabilistize environment that are degraded or servely damaged are of great concern. In this framework, the research arms to assess the role of soil as cathon sink and as system hosting bodiversity. On achieve the aun, the research will be performed in forest and man-made ecosystems. The structural and fundrional bodiversity of microorganisms bacteria and turnly and microardhood will be studied. The results will increase the contract throwing and the contraction of the contraction of bioindication of soil quality.	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 on energy availability and diet can deeply impact brain functions like synaptic plasticity, cognitive processes, neuroendocrine functions and behaviour, thus affecting health. Deit maniputation, ie. both dietars 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 micromacronutrient to complex foods and/or functional food particularly probiblics, and postibiotics) modulate brain function, with special regard to its metabolism, medox homeostasis, insular signaling, neuroinfarmantion, gutbrain 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 Fiorenzano - 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 dehydrogenase in the response to abolic 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 glutathionyation and O5LANdexylation. Using the facilities present at Sorbonne University in Paris, the 50 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"	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 telecot could alter physiological pathways involved in the response to hypoxic stress due to natural or antihypogenic causes. Among the antihopic factors of hypoxia, there is the spillage of intitles and nitrates into the waters, coming from coll and or industrial wates, which reduces the transport of 02 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 renic as an experimental mode.	Borse finanziate PNRR ex D.M. 118 - Area Ricerca PNRR	Dipartimento di Biologia	>6 months abroad	Foreign Lab: Faculdade de Cièncias 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 multidisciplinary project will focus on assessing alterations in the semen of subjects living in areas of high environmental impact and on understanding the molecular mechanisms of the reproductive toxicity of environmental pollutants using proteomics, genomics and metabolomics approaches. 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 Mylitius galloproviroisis will be used to assess the effects of certain environmental pollutants on spermatozoa 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 vinuence factors consetted with invasive fungal fractions. A possible approach to overcome the problem is the "epurposing strategy." The research project presents storing public health implications and has two aims: the isolation of Candida ablicians 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, achievence, and invasion assays) by using marmialian 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	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. The proposed project has a dual objective: I identify new genetic determinants for AD and FTD, through the acquisition of Whole Genome Sequencing (WSS) 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 microbiota-targeting 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 microbiotal composition of the gut. The probiotic spores and the molecules adsorbed on their surface are expected to have spregistic 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: dala ricerca all'impresa", che si rifanno a tecnologie abilitanti, coerenti con le misure previste dal PIN 2021-2027. In particolare, la proposta riguarda aree disciplinari e tematiche coerenti con la transizione ecologica e ambientale del PIN Regli ambiti PRODOTTI ALIMENTARI, BIOECONOMA, RISORSE NATURALI, A GRIGOLTURA, AMBIENTE, area Scienza e tecnologia alimentari (articolazioni 3 e 4).

New advances in Invertebrate-borne diseases Research	Le malatite trasmesse dagli invertebrati negli animali e nell'uomo sono di crescente interesse per la comunità scientifica a causa della lono diffusione in nuove aree de loro elevato potenziale zonotico. La lono distribuzione globale i cusuata di diversi diviers chi contribuzione alla diffusione dei vettori e dei patageni, e alla oliventi diviers che contribusicono alla diffusione dei vettori e dei patageni, e alla selvatori e dimensi dei vettori e dei patageni, e alla selvatori e dimensi dei vettori e di patageni, e alla selvatori e di mensi dei cuita en interpretario solla di patageni alla chi e di patageni patageni dei di montattà di massa di sepcie chiave di un prunto di vieta ecologici. I molluschi e gli insetti possono trasmettere una vasta gamma di agenti patageni dell'uomo e degli animali, i quali possono incidere negaltamente non solo in termini santati, ni anarbe in termini produttivi ed ecologici. Questo studo si partigge di implementare nuove strategie di sovregianza e miligazione utili pre li prevenzione di nuovi fucola legiderimi e la conservazione della salute e del benessere umano-animale anche a tutela della bodiversità.	Borse finanziate PNRR ex D.M. 118 - Area Publish 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 Patholobiogy - Wenna in Lab/Company in Italy (or abroad) : Istitudo Zooprofilattico Sperimentale del Mezzogiomo (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	Preeclampsia contributes significantly to pregnancy-associated morbidity and mortality. The project proposes identifying novel bloma/tern to distinguish, characterize and monitor the different inflammatory stages of preeclampsia 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 Transition Area PNRR	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	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/morbidity in the presence of persistent low-grade infarmation. List other types of senescence, immunosenescence is characterized by impaired proliferation and DNA damage, which triggers the inflammatory senescence-associated secretory phenotype (SASP) and immunological dystunction. 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 Itving Comprehensive Cancer Center New York, NY 10032 United States External Lab/Company in Italy (or abroad): IGA Technology Services Srl - Udine	PORCELLINI ANTONIO	081-679117	antonio.porcellini@unina.it	Per rientrare meila Linea M4C1, 4.1 (PA) Una formazione addizionale in "abilità complementari" come la scrittura di articoli, richiesel di finanziamento, management scientifico e gestione della proprieti infellettuale sara fornita da ricercatori operanti in vari ambiti anche l'avorendo 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-aconomic recovery through adaptation strategies based on the use of bodiversity and ecceystem services. This project aims to innovate and harmonize methods and tools for the collection and management of biodiversity monotoring data; study the dynamics and tends to reverse its loss and promote its protection with in vivo 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 / Followship by PNRR ex D.M. 118 Research Area PNRR	Dipartimento di Biologia	> 6 months abroad	Foreign Lab: Prof. MILAGROSA CLIVA RAMIREZ Department of Biobgy Universidad de Gadiz, Cadiz SPAIN Foreign Lab: Prof. LAUREANA REBORDINOS Department: Biomedicina, Biotecnobgia y Salud Publica Research Institut ode Investigación Marina (INMAR) Universidad de Gadiz, Cadiz SPAIN	SCUDIERO ROSARIA; GUERRIERO GIULIA	081-2535217; 081-2535151	rosaria.scudiero@unina.it giulia.guerriero@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 bioreoptivity of different attwork objects, starting from the Colections hold in the Regigia of Casanta Grant Casanta	Borse finanziate PNRR / PNRR Fellowship - MUR PE00000020 CHANGES - Cultural Heritage Active Innovation for Mext-Gen Sustainable Society - Spoke / tematica: Science and technologies for diagnostics of cultural heritage - CUP ESSC22001650006.	Dipartimento di Biologia	> 6 months abroad		POLLIO ANTONINO		antoninio polio≅unina.à.	
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 indicate a possible association between higher legume consumption and decreased risk of cancer and cardiovasoular disease. The focus of the PhD research project is the analysis of the metabolic and physiological effects of pulses consumption on health in a target human population with special regions or inflammation agnaling and redox homeostasis. Also, the anti-inflammatory impact or possibility terminel 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 E63C2 2002 030007	Dipartimento di Biologia	> 6 months abroad	Dr Florenzano 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-vivo 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 stimoli endogeni o esogeni, con l'intico e la pereptutzione di un processo infiammatorio che diventa conoico con manifestazioni cliniche associate ad eritema, squame o prunto. In questo progetto, mediante luso di co-culture collulari di cheratinocti, cellulare dell'epidemide, cellulare nervose ed immunitarie, cercheremo di comprendere le patimwa prolecciona lalia base dell'interazione, del processi di innervazione, di difessa del rivecchiamento della pelle. Il progetto prevederà anche l'uso di sistemo il terragingi, utilizzado principalmente il modello e vivo, in particolare espianti di pelle Lo scopo utimo sarà quello di determinare il meccanismi fisiopatologici alla base de processi di ninervazione del ninociale della "sensitiva sieri, al riveri dell'entita composti naturali capaci di modulare tali partiways e ridure 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 Eatero: 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 fiving materials, integrated into the living tissues and able to modulate biological processes. This general goal will be accomplished through telegrated approaches of animal, cell and molecular biology, using in two and in vito 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 Caianiello" (ISASI-CNR).	ISASI-CNR	> 3 months abroad	Sedi Estero: Orit Shefi (Bar Ilan University, Tel Aviv, Israel). Eleni Stavrinidou, Linkoping University, Norrkoping, Sweden	CLAUDIA TORTIGLIONE	081 8675306	c.tortiglione@isasi.cnr.it	(Finanziamento USAF OFFICE OF SCIENTIFIC RESEARCH-AFOSR)

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	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@unina.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 da Stazione Zoologica "Anton Dohrn" - Napoli / Fellowshp on agreement with (and sustained by)Stazione Zoologica "Anton Dohrn" - Napoli	Stazione Zoologica "Anton Dohm" - Napoli	>3 months abroad		Dott. Daniele Ludicone (SZN) - Prof. DONATO GIOVANNELLI (Dept. Biology)	+39 081 5833329	daniele.iudicone(at)szn.it	
Monitoring and assessment of biodiversity on hard substrate through innovative methods.  Monitoraggio e valutazione della biodiversità su substrato duro attraverso metodi innovativi.	Reefs include very different habitats, having in common a high structural complexity, critical functional roles, and a mostly unknown vulnerability to human stressons. Recent studies show that they are among the most endangered benthic habitats, severely threatened by climate change and human activities. However, data about steries distribution and status are mostly scattered, this representing a limit for increasing their conservation and management. Ranging from shallow natural or artificial reef to coart level in deep waters in the Mediterranean, the PhD student will assess the status of these benthic habitat through space and time comparing the outcomes of repeated surveys, video and audio recording. At lools will be adopted by the student to complement existing approaches to assess bodiversity changes in space and time. Participating to dedicated occanographic cumpagins on vessels or robotic solutions the student will also assess the environmental settings close to the monitored reef.	Borse finanziate PNRR / PNRR Fellowship - NBFC SPOKE 1	CNR-ISMAR Sede di Venezia (Referente: Fantina Madricardo) CNR-ISMAR Sede di Bologna (Referente: Federica Foglini)	> 3 months abroad	Università di Montpellie Università di Danzica	er Federica Foglini	+39 051 6398872	federica fogliniffigmal.com	FONDI PNRR CNR ISMAR NBFC SPOKE 1
Chito-oligosaccharides treatments to improve symbiotic performances in the model legume L. japonicus.	Short-chain chito-oligosaccharides (COs) are signalling molecules released by adsuscular mycombicas (AM) fungi. Freliminary 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 legiumes plants to establish a mutualistic symbiotic interaction with nizobia, makes then the mapor 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 notiogen 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 Lottus japonicus.  Inspact of N and Pavisability on CO-dependent promotion of symbiosis.  - Notice and continuous control of the control of th	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 Radutoiu, Department of Molecular Biolog and Genetics, Aarhus University, Aarhus, Denmark, Prof. Benoît Lacombe, CNRS, Institut National de la Recherche Agronomique/SupAgro/Univers e de Montpellier, Montpeller, France, Prof. Sepp Vainio, Developmental Biology Laboratory, University of Oulu, Oulu, Finland.	Vladimir Valkov	++39 081 6132434	otadimie valkov@ibbr.cm.ä.	
miRNAs deregulated in NAFLD and effect of bioactive molecules on their expression	mRNAs expression alterations are associated with different pathologies including cancer, and their expression can be used for prognostic/diagnostic purposes. Boactive molecules introduced with food can regulate the expression of genes and mRNAs exeming beneficial effects. The project aims to evaluate deregulated mRNAs associated with NAFLD (Nonalcoholic Fatty Liver Disease) and to identify boactive molecules present in food capable of modulating their expression. mRNAs analysis from NAFLD and healthy subjects will be used to define a set of mRNAs 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-Hemández, 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'Azı and CNRS, Valbonne, France	Stefania Crispi	off ++39081 6132622 lab ++39081 6132719	stefania.crispi@ibbr.cnr.it	
Anti-neuroinflammatory Potential of Natural Products	Neuroinflammation contributes to onset and progression of neurodegenerative diseases. Hyperactivation of micogla fixigere accessive release of proinflammatory mediators that impa blood-band barrier permeability and neuronal survival. In this research field, natural products and derivatives, constitute a "hot spor", above first field in the properties of the right project aims to explore the anti-riflammatory methanism of natural molecules, stating from a scenening for the detrification 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)	ICB-CNR - Area di Ricerca Via Pietro Castellino, 111 Napoli.	> 3 months abroad		Carmen Gallo	081 6132223	camen.gallo@icb.cnr.it	
Hygienic-sanitary quality of food products: development of innovative, effective and eco-compatible biodisinfectants	Case of diseases caused by foods contaminated by pathogens (Salmonella spo- cherichic od. Listella monopologenes) are more stanging globally producing strong impacts on the health of consumers, manufacturers and retailers. Therefore, there are ungern tend to develop a lateral strategies for sankting the workplaces to note the safety of these products. The sankting the workplaces to the contact, the purpose of the project will be to formulate innovative, effective and eco-compatible districtions 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)	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 peptidi Antimicrobici negli alimenti pronti al consumo: un a Poroccio 'green' per contr-Astare i risCH di contaminazionE microbiologica e per ridume l'impatic sulla salute publicia (APACHE). Filoscra Corrente 2022 IZS 10/22 RC. Unit. Funding Agency: Ministero della Salute
Chemistry signaling of the eco- physiological mechanisms in marine opisthobranchs	Opisthobranchs are molluses 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 intrequently, these molecules have also become very famous in all natural and even medical sciences, being the active compounts of new drugs or figands of physiologically central receptors. It is not clear whether the acquisation of these chemicals is a prerequisite for the reduction of these whether is an expension of the reduction of the secondary of the sec	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 delle Ricerche - Istituto di Chimica Biomolecolare, Via Campi Flegrei 34, Pozzuoli Napoli	> 3 months abroad	MARHE, The marine Research and high Education Center, dell'Universit di Glicoca, sull'isola di Magnochoo nell'Arcipelago delle Madive.	Giuliana D'Ippolito	081 8675096	gdippolite@icb.cnr.it.	Fondi dell'Islatuto di Chimica Biomolecolare derivanti da progetti esterni su bioprospecting e sviluppo di composti per uso medico