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

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 naturements of terrestrial accoystems or to draft management plans aiming to esclore or rehabilitate environments that are degraded or serverely damaged are of great concern. In this framework, the boddwestly. To achive the aim, the research will be performed in horest and management plans and an another the performation of the performation of the backretian and the structural and functional boddwestly of microorganisms (backretian and the backretian and budded). The results will increase the cument 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"	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 imqact brain functions like synaptic pasticity, cognitive processes, neuroendocrine functions and behaviour, thus affecting health. Diet manpulation, 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 microimacronutient to complex foods and/or functional food particulary probletos, and postbiotics) modulate brain function, with special regard to its metabolism, redox homeostask, insulin signaling, neuroinflammation, guitbrain 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, Walenberg Neuroscience Center, and Luend Stem Cell Center, Department of Experimental Medical Science, Lund University (Sweden)	CIGLIANO LUISA	081-2535215 081-2535244	luisa rigliano@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 abiotic stress and in the diversion of metabolim to the synthesis of secondary metabolites. A main point is to define the postransiational modifications present on the different G6PDHs, with a particular regard to glutathorylation and O-GINAcelytaion. 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"	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 Curié - 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 teleost could alter physiological pathways involved in the response to hypoxic stress due to not aural or antihropenetic causes. A mong 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 Q2 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 retrio as an experimental model.	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 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 metabolicities 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 Mytilus galoprovincialis will be uider 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 vivulence 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 abicans 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, Sol, Water and Environmental Sciences, Soli Chemistry, Plant Juntifion and Microbiology, Institute of Soli, Water and Environmental Sciences Volcani Institute Agricultural Research Organization, Bet Dagan, Israel	GALDIERO EMILIA	081-679181 081-679182	egaldier@unina.it	
Alzheimer's and Frontolemporal 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: 1. Jédnity new genetic determinismts 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 María Sánchez-Pérez, presso il Neurobiotechnology Lab, INAM (Institute of Advanced Materials), University of Jaurne 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-largeting 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 probloic strains of Bacilus, known to modulate the microbial composition of the gut. The probloic 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 N Sumay, 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: dalla ricerca all'impresa", che si rifanno a tecnologie abilianti, coerenti con le misure previste da IPNR 2021-2027. In particolare, la proposta riguarda aree discipinari e tematiche coerenti con la transizione ecologica e ambientale del PNR negli ambii PRODOTTI ALIMENTARI, BIOCCONMUN, RISORSE NATURALI, AGRICOLTURA, AMBIENTE, area Scienza e tecnologia alimentari (articolazioni 3 e 4).

	La malattia traemacca dagli invotabrati accii animali e nall'vome sono di								
New advances in Invertebrate-borne diseases Research	Le malatite trasmesse dagi invertebrati negli animali e nell'uomo sono di crescente interesso per la comunità scientifica a cuasa della lon diffusione in nuove aree del loro elevato potenziale zoonotico. La toro distribuzione globale è causata da diversi diversi che contributiscono alla diffusione dei vietori o dei patogeni, e alla loro introduzione nelle regioni non endemiche. Inoltre, Interazione di animali selvatici e domestici che condivisiono ambienti, vetori e malatte con gli esseri umani è cruciale nell'epidemiologia di queste malattie che spesso impattano sula biodiversità, come dimostrano i sempre crescenti episodi di montattà di massa di specie chiave da un punto di vista ecologico. I molluschi e gli insetti possono trasmettere una vasta gamma di agenti patogeni dell'uomo e degli animali, i quai possono incidere negativamente non solo in termi sanitari, ma anche in termini produttivi de cologici. O usota culto si prefigea di implementane 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 Pubblica Amministrazione / Fellowship by PNRR ex D.M. 118 - Public Administration Area PNRR	Dipartimento di Biologia	> 6 months abroad > 6 PLUS months in external location or company	Foreign Lab: University of Veterinary Medicine - Dept- of Pathobiology - Vienna External LabCompany in Italy (or abroad) : Istituto 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	Preclampsia contributes significantly to pregnancy-associated morbidity and mortality. The project proposes identifying novel biomarkers 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 motality/mobidity in the presence of persistent low-grade finammation. Like other types of senescence, immunosenescence is characterized by imparied proliferation and DNA damage, which triggers the inflammationy senescence-associated secretory phenotype (SASP) and immunological dysfunction. Immunosenescence varies among individuals depending on age, comorbidites, and somatic matistanto burden. This study aims to identify the molecular mechanisms undenlying 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 ANTONIO	081-679117	antonio porcellini@unina.it	Per isentrare mella Linea M4C1, 4, 1 (PA) Una formazione addizionale in "abilità complementan" come la sontitura di atticoli, richiese di finanziamento, managementi scientifico e gestione della proprietà intelletituale sarà formità da ricercatori operanti in vari ambili anche favorordo 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 monthcring data; study the dynamics and trends 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 OLIVA RAMIREZ Department of Biology Universidad de Cádiz, Cadiz SPAIN Foreign Lab: Prof. LAUREANA REBORDINOS Department: Biomedicina, Biotecnologia y Salud PúblicaResearch Instituto de Investigación Marina (INMAR) Universidad de Cádiz, Cadiz SPAIN		081-2535217; 081-2535151	rosaria scurliero@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 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 Vanvitelii manuscripts and projects, that also need specific conservation approaches, the project aim to sample a range of works of artistics or historica interest using non- invasive methods by analyzing the composition of resident microbial populations. In a second phase, the most prepresentative components of these populations will be isolated, with the aim of creating artificial microbiones 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 ESSC22001650006.	Dipartimento di Biologia	> 6 months abroad		POLLIO ANTONINO		antoninino collo ®unina II.	
Analysis of the impact of legumes and legume- derived postbiolics on human health by an in vitro and in vivo approach	Detary 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 homeostase. Also, the anti-hildmanatory impact of postbiotic termented 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 / Working ON Foods - Spoke / tematica: Food quality and nutrition - CUP E63C22002030007	Dipartimento di Biologia	> 6 months abroad	Dr Florenzano Lab Developmental and Regenerative Neuroscience Center, and Lund Stem Cell Center, C. 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 imvoration network on food and nutrition Sustainability. Sately 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	questo progetto, mediante i uso di co-culture cellulari di cheratinociti, cellule	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@arlerrahin 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 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 vitor models (inverbrates, culture 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 tsituto di Scienze Applicate e Sistemi Intelligenti "Eduardo Calaniello" (ISASI-CNR) / Fellowshp on agreement with (and sustained by) Istituto di Scienze Applicate e Sistemi Intelligenti "Eduardo Calaniello" (ISASI-CNR)	ISASI-CNR	> 3 months abroad	Sedi Estero: Orit Shefi (Bar llan University, Tel Aviv, Israel). Eleni Slavrinidou, Linkoping University, Norrkoping, Sweden	CLAUDIA TORTIGLIONE	081 8675306	<u>c loriiglione@isasi.cnr.it.</u>	(Finanziomento USAF OFFICE OF SCIENTIFIC RESEARCH - AFOSR)
	PROVISORY TITLE: Evoluzione dei monitoraggio della biodiversità: applicazioni a Ilvello 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.) / Followship 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	****panding 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.ludicone(at)szn.it	
Chito-oligosaccharides treatments to improve symbiotic performances in the model legume L. japonicus.	Short-chain chito-oligosaccharides (COs) are signalling molecules released by arbuscular mycorhizas (AM) tingl. Preliminary investigations demonstrated the effectiveness of COs as simulators 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 multialitis symbolic interaction with mizoba, makes them the major natural Nprovider to the ecosystem. The main goal of this project is to study how COs impacts on the development and efficiency of symbolic introgen fisation (SNF) and their effects on plant metabolism and nutrition. In particular, we will study: Weiscular analysis of COs effects on SNF. through the analysis of SNF marker elevation of the holisity on CO-depending promotion of symbolisis. - locitation and functional characterization of LORF. Insertion mutatios 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 Radutoiu, Department of Molecular Biology and Genetics, Aartus University, Aartus, Denmark, Prof. Benoit Lacombe, CNRS, Institut National de la Racherche Agronomique/SupAgrofUniversit é de Montipelier, Montpelier, France Prof. Seppo Vanio, Developmental Biology Developmental Biology Developmental Biology Oulu, Finland.	Vladimir Valkov	++39 081 6132434	vladinir valkov@ibbr.cnr.it.	
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. Bioactive molecules introduced with food can regulate the expression of genes and mRNAs exerting beneficial effects. The project aims to evaluate deregulated mRNAs associated with NAFLD (Nonalcoholic Fatty Liver Disease) and to identify bioactive molecules present in foods capable of molulating their expression. mRNAs analysis from NAFLD and healthy subjects will be used to define a set of mRNAs analysis from NAFLD and healthy subjects will be used to define a set of mRNAs analysis from NAFLD and healthy subjects will be used to define a set of mRNAs analysis from NAFLD and healthy subjects will be used to define a set of mRNAs analysis from NAFLD and healthy subjects will be used to define a set of mRNAs associated with th disease. Then using callular models of hepatic cancer, the ability of bioactive molecules to modulate their expression.	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'Azu and CNRS, Valbonne, France	Stefania Crispi	off ++39081 6132622 lab ++39081 6132719	stefania crispi@ibhr.cnr.it	
Anti-neuroinflammatory Potential of Natural Products	Neuroinflammation contributes to onset and progression of neurodegenerative diseases. Hyperactivation of microglia triggers excessive release of proinflammatory mediators that limpair blood-brain brainer 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. Itaget in these pathologies. This project aims to explore the anti-inflammatory mechanism of natural melocules, 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)	ICB-CNR - Area di Ricerca Via Pietro Castellino, 111 Napoli.	> 3 months abroad		Carmen Gallo	081 6132223	Carmen gallo@ich.onr.it	
Hygienic-sanitary quality of food products: development of innovative, effective and eco-compatible bio- disinfectants	Cases of diseases caused by foods contaminated by pathogens (Satmonelia spp. Excherichia coli, Listeria monocytogena are increasing jobally, producing strong impacts on the health of consumers, manufacturers and retailers. Therefore, there is an urgent need to develop alternative strategies for sanitzing the workplaces to increase the sativity of these products. In this context, the purpose of the project will be to formulate innovative, effective and eco-compatible disintectant solutions, based on antimicrobial peptides of natural origin, aimed at ablishing 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 aPproccio 'green' per contrAstare i risCHI di contaminazionE microbiologica e per ridume i'mpato sulla salute pubbica (APACHE). "Ricerca Corrente 2022 IZS 10/22 RC. Unit. Funding Agency: Ministero della Salute
Chemistry signaling of the eco- physiological mechanisms in marine opisthobranchs	Opisithobranchs are molluscs with little or no shell. According to phylogenetic analyses, shell reduction is related to the evolution of signaling strategies that include color warming, 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 perequisite for the reduction of the shell, or if the reduction had occurred earlier. However, it is well known that the molecules used by opishtbornchs denke from selective accumulation from the environment by feeding on producer organisms or bisynthesized de novo by snails. Here it is proposed to study the biological and chemical characteristics of these molecules, as well as their biosynthetic orgin. A particular attention will be paid to their eco-physiological role and potential in pharmaceutical applications	senza borsa (possono essero presenti altri sostegni economici) Avithout 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 Magoodhoo nell'Arcipelago delle Maldive.	Giuliana D'Ippolito	081 8675096	gdippolito@icb.cnc.it.	Fondi dell'Istituto di Chimica Biomolecolare derivanti da progetti esterni su bioprospecting e sviluppo di composti per uso medico