



ECOLOGY AND MANAGEMENT OF BIOLOGICAL RESOURCES

Annex A

Director prof. Claudio Carere

Principal investigator	<b>Carlo Belfiore</b>
Action	GREEN
Scientific area	BIO/05
The PhD course will last	3 years
Research Topic	“Molecular tools for validating the ecological status of river systems”
Summary of the research topic	The project aims to study benthic macroinvertebrates for the biological monitoring of water, in order to define the ecological status of aquatic ecosystems. Specifically, the program aims to characterize the biodiversity of the populations concerned by integrating aspects of morphological, ecological and molecular nature through an interdisciplinary approach.
Period in the private sector (months)	6
Research period abroad (months)	-----
Language of the interview	English
Target (Research outcomes to be achieved during the PhD period)	<ul style="list-style-type: none"><li>- At least 1 scientific publication in a national or international journal</li><li>- At least 1 participation in a national or international conference</li></ul>



Principal investigator	<b>Adriana Bellati</b>
Action	GREEN
Scientific area	BIO/05
The PhD course will last	3 years
Research Topic	“Development of innovative methods for the assessment of environmental biological damage by parthenogenetic organisms”
Summary of the research topic	The project aims to evaluate the possible use of parthenogenetic organisms in bioindication practices. The use of species characterized by the presence of genetically identical individuals, could offer the opportunity to overcome the current limits of biological monitoring related to inter-individual differences between experimental subjects.
Period in the private sector (months)	6
Research period abroad (months)	6
Language of the interview	English
Target (Research outcomes to be achieved during the PhD period)	- At least 1 scientific publication in a national or international journal - At least 1 participation in a national or international conference



Principal investigator	<b>Marco Marcelli</b>
Action	GREEN
Scientific area	BIO/07
The PhD course will last	3 years
Research Topic	“Marine ecosystem conservation”
Summary of the research topic	The project aims to contribute to the development of tools for the management of marine ecosystems of the mesolittoral and upper infralittoral through remote sensing techniques in order to select target species sensitive to pollution useful to be tested as bioindicators of specific pollutants.
Period in the private sector (months)	6
Research period abroad (months)	0
Language of the interview	English
Target (Research outcomes to be achieved during the PhD period)	<ul style="list-style-type: none"><li>- At least 1 scientific publication in a national or international journal</li><li>- At least 1 participation in a national or international conference</li></ul>



Principal investigator	<b>Marcella Pasqualetti</b>
Action	GREEN
Scientific area	BIO/02
The PhD course will last	3 years
Research Topic	“Marine fungi”
Summary of the research topic	The project aims to understand the roles of different species of marine fungal communities in order to contribute to the knowledge of the main and most vulnerable components of the marine ecosystem such as corals and gorgonians that are particularly sensitive to climate change.
Period in the private sector (months)	6
Research period abroad (months)	6
Language of the interview	English
Target (Research outcomes to be achieved during the PhD period)	- At least 1 scientific publication in a national or international journal - At least 1 participation in a national or international conference



Principal investigator	<b>Raffaele Saladino</b>
Action	GREEN
Scientific area	CHIM/06
The PhD course will last	3 years
Research Topic	“Green Chemistry”
Summary of the research topic	The project aims to develop green and sustainable processes for the extraction and characterization of natural bioactive organic substances present in thermal muds. The current processes involve the use of organic solvents characterized by high toxicity and environmental impact. In addition, a study will be launched for the development of medical devices, based on thermal waters and formulated to contain only natural substances to replace the current synthetic chemicals..
Period in the private sector (months)	6
Research period abroad (months)	0
Language of the interview	English
Target (Research outcomes to be achieved during the PhD period)	<ul style="list-style-type: none"><li>- At least 1 scientific publication in a national or international journal</li><li>- At least 1 participation in a national or international conference</li></ul>



UNIVERSITÀ  
DEGLI STUDI DELLA  
TUSCIA