ANNEX A

SCIENTIFIC DISCIPLINARY AREA BIOLOGY

RESEARCH PROGRAM NO. 1

The assessment criteria for the qualifications and the interview will be affixed on 15.11.2019 at 9.00 in Dipartimento di Scienze della Terra, Dell'Ambiente e della Vita (DISTAV), Sala di Lettura V Piano Palazzo delle Scienze, Corso Europa 26, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 15.11.2019 at 12.30 in Dipartimento di Scienze della Terra, Dell'Ambiente e della Vita (DISTAV), Sala di Lettura V Piano Palazzo delle Scienze, Corso Europa 26, Genova.

The interview will be held on 15.11.2019 at 14.30 in Dipartimento di Scienze della Terra, Dell'Ambiente e della Vita (DISTAV), Sala di Lettura V Piano Palazzo delle Scienze, Corso Europa 26, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Laura CANESI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19,367,00

Title: Investigation on the physiological status of mussels in the gulf of La Spezia by the biomarker approach

Description: The research concerns mussel biomonitoring in mussels reared in the Gulf of La Spezia. Activities involve physiopathological analyses (determination of a biomarker battery from the cellular to the organism level) in mussels sampled at different sites at different times of the year. Results will be integrated with those of chemical and microbiological analyses in collaboration with other local stakeholders (ISZ-PVL, Coop. Mitilicoltori Spezzini, etc. ASL 5 Spezia). The results will allow the follow up of seasonal variability in mussel health status and the identification of critical issues, in order to support and protect mussel farming activities, in close relationship with the productive activities and management of the Ligurian territory.

Scientific disciplinary sector: BIO/09 FISIOLOGIA

Place: Dipartimento di Scienze della Terra, Dell’Ambiente e della Vita (DISTAV)

Required degree:
Laurea V.O. in Scienze Biologiche; Laurea Specialistica delle classi 6/S (Scienze e Tecnologie del Monitoraggio biologico), 82/S (Scienze Ambientali Marine); Laurea Magistrale delle classi LM-6 (Monitoraggio Biologico), LM-75 (Scienze del Mare).

Subjects of the interview:
Physiological responses of marine bivalves to environmental stimuli, biomarkers of environmental stress at different levels of biological organization, immune biomarkers, choice of biomarkers in field biomonitoring, biomarker data interpretation.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 2

The assessment criteria for the qualifications and the interview will be affixed on 12.11.2019 at 9.00 in Dipartimento di Medicina Sperimentale (DIMES), Laboratorio di Microscopia Elettronica, Anatomia Umana, Via Antonio de Toni 14, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 12.11.2019 at 12.00 in Dipartimento di Medicina Sperimentale (DIMES), Laboratorio di Microscopia Elettronica, Anatomia Umana, Via Antonio de Toni 14, Genova.

The interview will be held on 12.11.2019 at 13.00 in Dipartimento di Medicina Sperimentale (DIMES), Laboratorio di Microscopia Elettronica, Anatomia Umana, Via Antonio de Toni 14, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Katia CORTESE

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19,367,00

Title: Development and application of an enhanced contrast imaging method in transmission and 3D electron microscopy for the study of morphological-functional diversity of lipid nanovesicles on methylcellulose films and heavy metal mixtures.

Description: 1. The candidate will develop a method to improve the ultrastructural imaging of exosomes and nanovesicles using the incorporation in hydrophilic films composed of methylcellulose (MC). To design and validate the improved double contrast method, he/she will use liposomes functionalized with the therapeutic antibody cetuximab as a proof of principle model. 2. As a second objective, the candidate will have to apply this method to characterize the morphological diversity of exosomes purified from ERBB2+ (SKBR3 and BT474) mammary tumor cell lines that are sensitive and resistant to Trastuzumab (TZ) therapy. The exosomes will then be evaluated for their morphology and composition using immuno-EM techniques.

Scientific disciplinary sector: BIO/16 ANATOMIA UMANA

Place: Dipartimento di Medicina Sperimentale (DIMES)

Required degree: Laurea V.O. in Medicina e Chirurgia, in Fisica, in Ingegneria Medica, in Scienze Biologiche; Laurea Magistrale delle classi LM-41 Medicina e chirurgia, LM-17 Fisica, LM-21 Ingegneria biomedica, LM-6 Biologia, LM-9 Biotecnologie mediche, veterinarie e farmaceutiche.

Subjects of the interview: Immuno and standard electron microscopy techniques for sample preparation, sectioning and image analysis applied to biomedical research.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 3

The assessment criteria for the qualifications and the interview will be affixed on 12.11.2019 at 8.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME) – Sezione TEC, Via all’Opera Pia 15A, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 12.11.2019 at 11.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME) – Sezione TEC, Via all’Opera Pia 15A, Genova.

The interview will be held on 12.11.2019 at 12.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME) – Sezione TEC, Via all’Opera Pia 15A, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Luca TAGLIAFICO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19,367,00

Title: Innovative solar plants with hybrid panels for sport facilities: control, optimisation and sustainability applied to the pilot plant “PALACUS” of University of Genoa.

Description: The research project will consist of a monitoring phase and data collection related to the consumed and produced thermal and electrical energy, necessary to have a significant conception of the plant progress associated to the climatic variations occurring during a calendar year. A second phase will take place to identify and plan the optimal strategies to manage the plant through the acquired data processing. Finally, following the third phase, a guideline for the management of this type of plant will be derived and proposed. Due to the innovative nature of the project, this phase will also enquire whether this knowledge can undergo a generalization and be transferred also to structures of different types (schools, hospitals...) or similar plants located in other thermal zones on the national territory.

Scientific disciplinary sector: ING-IND/10 FISICA TECNICA INDUSTRIALE

Place: Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME)

Required degree:

Subjects of the interview:
The candidate must demonstrate adequate experience in the thermotechnics and plant engineering. He/she will have expertise on the following topics: - Simple and complex heat pump cycles (e.g. solar-assisted heat pumps) - Management and control of plants by energy consumption monitoring.

The candidate will need to prove his/her knowledge of the english language.
The assessment criteria for the qualifications and the interview will be affixed on 12.11.2019 at 10.00 in Dipartimento di Scienze Politiche (DISPO), Piazzale Brignole 3A, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 12.11.2019 at 16.00 in Dipartimento di Scienze Politiche (DISPO), Piazzale Brignole 3A, Genova.

The interview will be held on 15.11.2019 at 16.00 in Dipartimento di Scienze Politiche (DISPO), Piazzale Brignole 3A, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Fabrizio Coticchia on the phone number +39 010 20951139 or via the email address: fabrizio.coticchia@unige.it

Scientific coordinator: Prof. Fabrizio COTICCHIA

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Which integration policy? Public opinion and migration policies in Liguria.

Description: The research will investigate the migration policies adopted in Liguria after the beginning of the so-called refugee crisis, examining the peculiar features of the local approach (e.g., private-public as well as the different public coordination) as well as the evolving perception of public opinion on migration.

Scientific disciplinary sector: SPS/04 SCIENZA POLITICA

Place: Dipartimento di Scienze Politiche (DISPO)

Required degree: Dottorato di ricerca in Scienza Politica o in Scienze Sociali.

Subjects of the interview:
- Migration Policy - Integration and politicization of migration - Methods.

The candidate will need to prove his/her knowledge of the english language.