

SCIENTIFIC DISCIPLINARY AREA: MATHEMATICS AND INFORMATICS

RESEARCH PROGRAM NO. 1

The assessment criteria for the qualifications and the interview will be affixed on 26.2.2016 at 9.00 in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.2.2016 at 12.00 in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova

The interview will be held on 26.2.2016 at 15.00 in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, 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. Michele Piana on the phone number +39 010 353 6939 or via the email address piana@dim.unige.it

Scientific coordinator: Prof Michele Piana

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

Title: Image reconstruction in X-ray solar astronomy.

Description: The project is concerned with the formulation of computational methods for image reconstruction in X-ray solar astronomy. The hardware devices in this framework provide sparse sampling of the Fourier transform of the incoming radiation. Therefore, the research activity will deal with the development of techniques for the inversion of the Fourier transform from limited data. The validation of such methods will utilize synthetic data obtained by simulating the process of data formation in the case of the ESA telescope STIX in Solar Orbiter and with real data recorded by the NASA telescope RHESSI.

Scientific disciplinary sector: MAT/08 NUMERICAL ANALYSIS

Place: Dipartimento di Matematica (DIMA)

Required degree:

Dottorato di ricerca in Matematica o in Fisica o in Informatica

Subjects of the interview:

Computational methods for image reconstruction in X-ray solar astronomy.

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 26.2.2016 at 10.00 in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.2.2016 at 13.00 in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova

The interview will be held on 26.2.2016 at 16.00 in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, 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. Michele Piana on the phone number +39 010 353 6939 or via the email address piana@dima.unige.it

Scientific coordinator: Prof Michele Piana

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

Title: Machine learning techniques for modeling educational data.

Description: The main objective of this project is the application of supervised and unsupervised machine learning techniques for the university dropout prediction. The project will be developed according to two perspectives: first, from a computational viewpoint, novel classification and prediction methods will be proposed, formulated 'ad hoc' for educational data; second, from an application viewpoint, these methods will be validated against school and university data at disposal from both regional and national databases.

Scientific disciplinary sector: MAT/08 NUMERICAL ANALYSIS

Place: Dipartimento di Matematica (DIMA)

Required degree:

Dottorato di ricerca in Matematica o in Fisica o in Informatica

Subjects of the interview:

Knowledge of supervised and unsupervised machine learning techniques.

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 3.3.2016 at 9.00 in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 3.3.2016 at 12.30 in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova

The interview will be held on 3.3.2016 at 14.30 in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, 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 REPETTO

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

Title: Ion induced self-organization of thin films.

Description: Ion irradiation provides a wide range of techniques for modifying surfaces at the micro and nanoscale. The performance and the throughput of traditional direct-writing techniques, relying on sputtering phenomena, can be improved by controlling the self-organization processes that are induced by the ion impact. This project aims to study self-organization phenomena showing up during the bombardment with energetic ions of solid films with thickness in the nanometric range. The resulting structures will be compared with the predictions of the models for liquid films in order to establish the analogy between these systems. A functional characterization of the new surfaces will be also carried out as to their optical properties, their wettability and adhesion.

Scientific disciplinary sector: FIS/01 EXPERIMENTAL PHYSICS

Place: Dipartimento di Fisica (DIFI)

Required degree:

Dottorato di ricerca in Fisica o in Scienza dei materiali

Subjects of the interview:

Methods and techniques for nanostructuring of surfaces, spectroscopic analytical techniques , various types of microscopy : optical , electronic and atomic force .

RESEARCH PROGRAM NO. 4

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 12.00 in Dipartimento di Fisica (DIFI), Via Dodecaneso, 33, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 17.00 in Dipartimento di Fisica (DIFI), Via Dodecaneso, 33, Genova

The interview will be held on 2.3.2016 at 10.00 in Dipartimento di Fisica (DIFI), Via Dodecaneso, 33, 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. Sandro SQUARCIA

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

Title: Development of data analysis strategies for the characterization of transient sources of gravitational waves.

Description: In the framework of the experimental search of gravitational waves a great effort is put in the development of the so-called electromagnetic follow-up programs. The gravitational wave detectors operating worldwide (Virgo in Italy, LIGO in the US) wish to enable multi-messenger observations of astrophysical events by gravitational waves detectors along with a wide range of telescopes and instruments of mainstream astronomy. Gravitational wave transient candidates will be identified promptly upon acquisition of the data; these gravitational triggers will be distributed to the astronomical community with an initial latency of a few tens of minutes initially, possibly improving later. For an effective use of the combined gravitational and astronomical data that will become available coherent strategies for the analysis of both types of data (both gravitational and astronomical, typically 2D images of the sky) need to be developed, in order to be able to extract the maximum possible information (sky localization, light curve as a function of time, mass and spin of the source(s), and so on).

Scientific disciplinary sector: FIS/04 NUCLEAR AND SUBNUCLEAR PHYSICS

Place: Dipartimento di Fisica (DIFI)

Required degree:

Laurea V.O. in Fisica

Laurea Specialistica della classe 20/S Fisica

Laurea Magistrale della classe LM-17 Fisica

Subjects of the interview:

Gravitational wave sources and expected signals . Experimental techniques for the detection of gravitational waves. Technical analysis of gravity data (looking for signs modeled and not modeled). Techniques of analysis of images .

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

SCIENTIFIC DISCIPLINARY AREA: CHEMISTRY
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RESEARCH PROGRAM NO. 5

The assessment criteria for the qualifications and the interview will be affixed on 26.2.2016 at 10.00 in Dipartimento di Chimica e Chimica Industriale (DCCI) - Via Dodecaneso 31, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.2.2016 at 14.00 in Dipartimento di Chimica e Chimica Industriale (DCCI) - Via Dodecaneso 31, Genova

The interview will be held on 26.2.2016 at 15.00 in Dipartimento di Chimica e Chimica Industriale (DCCI) - Via Dodecaneso 31, 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 Gilda ZANICCHI

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

Title: Synthesis and characterization of glassceramic materials promising in photoluminescence field.

Description: The main topic of this research project is the study of photoluminescent glass-ceramic materials in terms of synthesis, processing, characterization of physical and chemical properties and subsequent technological applications. Some glass-ceramic materials, such as borosilicates doped with rare earths, result as promising candidates in the W-LED [1,2] due to their high efficiency and eco-compatibility as light sources under UV excitation. In fact, these materials may also be a viable alternative to conventional fluorescent probe in the field of cell and tissue imaging [3]. The research results will be disseminated through publications in ISI journals and submission of any patents.

Scientific disciplinary sector: CHIM/03 GENERAL AND INORGANIC CHEMISTRY

Place: Dipartimento di Chimica e Chimica Industriale (DCCI)

Required degree:

Dottorato di ricerca in Scienza e Tecnologia dei Materiali

Subjects of the interview:

Techniques for the synthesis and characterization of glassceramic materials; influence of synthesis and doping on their physico-chemical properties.

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

RESEARCH PROGRAM NO. 6

The assessment criteria for the qualifications and the interview will be affixed on 11.3.2016 at 8.00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV), 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 11.3.2016 at 11.00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) corso Europa 26, Genova

The interview will be held on 11.3.2016 at 12.00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) 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 CRISPINI

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

Title: Numerical models in subduction zones: the development of the outer rise and the interactions rock-fluid.

Description: This project deals with the subduction zones, that are the main features of the convergent plates. The focus of the project is on the "outer rise" and the faults connected. The outer rise is a bulge on the sea bottom, that can develop close to the trench; it is caused by the deformation and bending of the lower slab and is a main feature of the coupling between the lower and upper plates. The aim of this project is to apply 3D numerical models to the study of the development of the faults connected with the outer rise, and of the role of these faults in controlling the interactions of the fluids with the rocks.

Scientific disciplinary sector: GEO/03 STRUCTURAL GEOLOGY

Place: Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV)

Required degree:

Dottorato di ricerca in Scienze della Terra

Subjects of the interview:

3D numerical models, characteristics of subduction zones.

RESEARCH PROGRAM NO. 7

The assessment criteria for the qualifications and the interview will be affixed on 26.2.2016 at 9.30 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV), 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 26.2.2016 at 13.00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) Corso Europa 26, Genova

The interview will be held on 26.2.2016 at 14.00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV), 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. Marco CAPELLO

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

Title: Study of the response of diatoms and foraminifera to the presence of pollutants in marine sediment in relation to the dynamics in two areas subject to a different anthropogenic load (Port of Genoa and Baia delle Favole, Sestri Levante).

Description: The study of dynamics and atmospheric agent data, and concentrations of some pollutants in the water column (such as PAHs and heavy metals) collected during the dredging of the Port of Genoa (i.e., an anthropogenic environment) has determined the extent and distribution of the contamination and its variations caused by dredging and atmospheric phenomena.

The continuation of this study is important for the marine sector of the Port of Genoa to predict and propose measures for the protection of the marine and coastal environment: this will be done with the analysis of both the dynamics and the responses of the marine benthos (diatoms and foraminifera) to the pollutants in the marine sediments collected in the Port of Genoa and in a "non- anthropogenic environment", i.e. the Baia delle Favole of Sestri Levante, subject to natural pollution from "mining leachate".

Scientific disciplinary sector: GEO/12 OCEANOGRAPHY AND PHYSICS OF THE ATMOSPHERE

Place: Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV)

Required degree:

Laurea V.O. in Scienze geologiche

Subjects of the interview:

Knowledge of the physical monitoring of shallow water and in confined areas, use of oceanographic physical and sedimentological instrumentation, correlations wind-currents, analysis of wind data, processing of samples and data obtained, characterization of the sediments by the presence of diatoms and / or foraminifera.

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

RESEARCH PROGRAM NO. 8

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 9.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 12.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova

The interview will be held on 1.3.2016 at 15.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, 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. Massimiliano BURLANDO

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

Title: Meteorological characterisation and numerical simulation of strong wind events in coastal areas.

Description: In the context of the activities of the Research Group on Wind Engineering of the Department of Civil, Chemical, and Environmental Engineering, it is required a study aimed at the meteorological characterization and numerical simulation of the strong wind phenomena occurring in the coastal areas of the Northern Tyrrhenian and Ligurian Sea. The meteorological characterization of these phenomena will be performed using the measures of the monitoring networks developed during the Projects "Wind and Ports" and "Wind, Ports and Sea", as well as on satellite and radar measurements. The simulation of the strong events will be carried out using meteorological models coupled to mass-consistent models in order to obtain high-resolution wind fields, as well as wind tunnel tests.

Scientific disciplinary sector: GEO/12 OCEANOGRAPHY AND PHYSICS OF THE ATMOSPHERE

Place: Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA)

Required degree:

Laurea V.O. in Fisica o Scienze Ambientali

Laurea Specialistica della classe 20/S Fisica o 82/S Scienze e tecnologie per l'ambiente e il territorio

Laurea Magistrale della classe LM-17 Fisica o LM-75 Scienze e tecnologie per l'ambiente e il territorio

Subjects of the interview:

Meteorological models, mass-consistent models and procedures for nesting between the two classes of models. Analysis and management of databases. Remote sensing and post-processing of LiDAR, satellite and weather radar measures. Fundamentals of physics and engineering of wind.

SCIENTIFIC DISCIPLINARY AREA: BIOLOGY
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RESEARCH PROGRAM NO. 9

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 10:00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) – 6° piano 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 1.3.2016 at 15.00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) – 6° piano Corso Europa, 26, Genova

The interview will be held on 2.3.2016 at 15:00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) – 6° piano 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.

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. Marzia Bo on the phone number +39 010 353 8019 or via the email address marzia.bo@unige.it

Scientific coordinator: Prof.ssa Marzia BO

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

Title: BIOMOUNT Project: biodiversity characterization of the Tyrrhenian seamounts.

Description: Among the deep marine ecosystems, seamounts represent crucial habitat for the conservation of the biodiversity due to the important role they play in the deep ecosystem functioning and for their great vulnerability towards antropic impacts, such as fishing. The principal result of the BioMount project is the characterization of the biological communities of some of the most important underwater Tyrrhenian structures with the aim of covering an important knowledge gap existing for these mounts and highlight their influence, at various levels, on the Mediterranean marine biodiversity. The principal expected results will be the production of biocenotic maps representing the zonation, down to 1000m depth, of the communities of the explored seamounts with the identification of the vulnerable communities and the characterization and quantification of the antropic impacts.

Scientific disciplinary sector: BIO/05 ZOOLOGY

Place: Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV)

Required degree:

Dottorato di ricerca in Scienze e Tecnologie Ambientali

Subjects of the interview: Seamount, ROV-Imaging, GIS, Environmental impact assessment, Benthic mapping, Vulnerable Marine Ecosystems.

RESEARCH PROGRAM NO. 10

The assessment criteria for the qualifications and the interview will be affixed on 4.3.2016 at 9:00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) – 7° piano 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 4.3.2016 at 12.00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) – 7° piano Corso Europa, 26, Genova

The interview will be held on 4.03.2016 at 15:00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) – 7° piano 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. Marco BERTOLINO

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

Title: Quali-quantitative reconstruction along a millennial span of time of the Porifera community of the coralligenous concretion from Ligurian Sea.

Description: Siliceous sponges have an inner skeleton composed by spicules whose size and shape have a significant degree of specificity and are currently used in taxonomic studies. When sponges decay these spicules are dispersed in the sediment and, in absence of bioturbation, remain the sediment as record of the sponge diversity of a specific period.

Sponges are among of the most representative taxa of the coralligenous assemblages. When sponges living in coralligenous crevices die, their siliceous spicules likely become trapped in the concretion, offering the unique possibility to describe the coralligenous spongofauna over a very long span of time. The aim of this project is to describe the ancient sponge assemblages on the base of spicules recorded inside blocks of coralligenous material, assuming that spicules present inside the conglomerates may have approximately the same age of the surrounding bio-deposited carbonates. The comparison of these ancient sponge assemblages with the living ones recorded on the surface of the concretions allowed an estimation of the stability level of the coralligenous community along a millennial span of time.

Scientific disciplinary sector: BIO/05 ZOOLOGY

Place: Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV)

Required degree:

Laurea Magistrale della classe LM-75 Scienze e tecnologie per l'ambiente e il territorio

Subjects of the interview: Marine Zoology and Ecology; methods and experimental techniques for the taxonomic study of the living and ancient Porifera community; statistic analysis. The candidate must demonstrate knowledge of the latest findings published in the international scientific literature of the field.

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

RESEARCH PROGRAM NO. 11

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 9.00 in Dipartimento di Medicina Sperimentale (DIMES) – Sezione di Fisiologia Umana, Viale Benedetto XV/3, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 16.00 in Dipartimento di Medicina Sperimentale (DIMES) – Sezione di Fisiologia Umana, Viale Benedetto XV/3, Genova

The interview will be held on 2.3.2016 at 11.00 in Dipartimento di Medicina Sperimentale (DIMES), – Sezione di Fisiologia Umana, Viale Benedetto XV/3, 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 AVANZINO

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

Title: Anticipatory behaviour and adaptation during catching a ball in patients with cervical dystonia.

Description: Dystonia is a syndrome characterized by prolonged muscle contractions causing involuntary repetitive twisting movements and abnormal postures. Dystonia has long been considered to be a manifestation of basal ganglia dysfunction, however the cerebellum may play a role in the pathogenesis of this disease. Among different functions, the cerebellum is needed to acquire the appropriate anticipatory adjustments for environmental changes by means of motor adaptation. The aim of the present project is to determine whether and how patients with cervical dystonia (CD) adapt to different weights in a multi-jointed catching task, to understand if even during the performance of an overt motor act, predictive mechanisms are malfunctioning.

Scientific disciplinary sector: BIO/09 PHYSIOLOGY

Place: Dipartimento di Medicina Sperimentale (DIMES)

Required degree:

Laurea V.O. in Psicologia

Laurea Specialistica della classe 58/S Psicologia

Laurea Magistrale della classe LM-51 Psicologia

Subjects of the interview: Motor act learning. Neuromodulation techniques.

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

RESEARCH PROGRAM NO. 12

The assessment criteria for the qualifications and the interview will be affixed on 3.3.2016 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 3.3.2016 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 3.3.2016 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: Seasonal variations of the physiological status of mussels in the La Spezia harbor.

Description: The physiological status of mussels (*Mytilus galloprovincialis*) in the La Spezia harbour will be evaluated by a biomarker approach. Mussels will be sampled monthly at 3 sites within the harbor and at 1 reference site. A battery of biomarkers will be determined at different levels of biological organization (from cellular to organism level). The results, integrated with microbiological and physico-chemical analyses carried out by other institutions (IZS, ARPAL), will provide information on the physiological status of mussels in relation to both abiotic and biotic factors, and will allow the identification of critical conditions in relation to both seasonal cycles or anthropogenic activities.

Scientific disciplinary sector: BIO/09 PHYSIOLOGY

Place: Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV)

Required degree:

Dottorato di ricerca in Scienze Ambientali (Scienza del Mare)

Subjects of the interview:

Physiological responses of marine bivalves to environmental stimuli, biomarkers of environmental stress at different levels of biological organization, choice of biomarkers in a plan of biomonitoring, data interpretation of biomarkers.

RESEARCH PROGRAM NO. 13

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 9.30 in Dipartimento Di Medicina Sperimentale (DIMES), Viale Benedetto XV/3, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 13.00 in Dipartimento Di Medicina Sperimentale (DIMES), Viale Benedetto XV/ 3, Genova

The interview will be held on 1.3.2016 at 15.00 in Dipartimento Di Medicina Sperimentale (DIMES), Viale Benedetto XV/3, 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. Franco ONOFRI

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

Title: Impact of LRRK2 kinase activity on synaptic vesicle trafficking.

Description: The Leucine-rich repeat kinase 2 (LRRK2) protein contains several domains including a kinase domain. Pathological mutations bring to an increase of LRRK2 kinase activity are involved in Parkinson's disease (PD).

Our major aim is to discover if presynaptic proteins critical for synaptic vesicles trafficking are target of the pathological kinase activity of LRRK2 and how it influences synaptic function.

Given that inhibitors of LRRK2 kinase activity have been recently characterized, we propose to evaluate their effect on neuron functions in different LRRK2 PD in vitro models.

The pharmacological inhibition of LRRK2 kinase activity is a promising therapeutic modality for the treatment of neurodegeneration in PD, but its real potential and eventual side effect have to be deeply evaluated.

Scientific disciplinary sector: BIO/09 PHYSIOLOGY

Place: Dipartimento di Medicina Sperimentale (DIMES)

Required degree:

Laurea V.O. in Chimica e Tecnologia Farmaceutiche; Biotecnologie; Farmacia; Scienze biologiche.

Laurea Specialistica della classe 14/S Farmacia e farmacia industriale, 9/S Biotecnologie mediche, veterinarie e farmaceutiche o 6/S Biologia.

Laurea Magistrale in della classe LM-13 Farmacia e farmacia industriale, LM-9: Biotecnologie mediche, veterinarie e farmaceutiche o LM-6 Biologia.

Subjects of the interview:

The interview will clarify the basics of neurophysiology, thesis and research experiences of the candidate.

RESEARCH PROGRAM NO. 14

The assessment criteria for the qualifications and the interview will be affixed on 26.2.2016 at 9.00 in Sezione Farmacologia (DIMI) Viale Benedetto XV/2, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.2.2016 at 12.00 in Sezione Farmacologia (DIMI) Viale Benedetto XV/ 2, Genova

The interview will be held on 26.2.2016 at 12.15 in Sezione Farmacologia (DIMI) Viale Benedetto XV/2, 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. Tullio FLORIO

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

Title: Investigation on the molecular mechanisms involved in drug-resistance of glioblastoma stem cells.

Description: Malignant tumors display high resistance to existing therapies due to the presence of a subpopulation of tumor-initiating or cancer stem cells (CSCs), also responsible for tumor initiation and progression. The aim of the study is the analysis of the potential molecular mechanisms regulating survival and drug-resistance in CSCs: a) drug efflux gene expression (i.e. ABC transporters); b) epigenetic modulators; c) intracellular pathways involved in CSC proliferation/self-renewal/apoptosis. CSC cultures, derived from human malignant gliomas, fully characterized for stem and tumorigenic properties, will be used as experimental model. Drug-resistance mechanisms of CSCs will be correlated to their sensitivity to cytotoxic drugs and target therapies, currently available for clinical use.

Scientific disciplinary sector: BIO/14 PHARMACOLOGY

Place: Dipartimento di Medicina Interna e Specialità Mediche (DIMI)

Required degree:

Dottorato di ricerca in Neuroscienze o in Neuroscienze sperimentali o in Neurofisiologia e neurofarmacologia

Subjects of the interview:

Biology of cancer stem cells. Isolation, expansion and in vitro characterization of normal stem cells and human cancer cells. Molecular mechanisms involved in cell proliferation and apoptosis. Biological and molecular analysis of mechanisms.

RESEARCH PROGRAM NO. 15

The assessment criteria for the qualifications and the interview will be affixed on 26.2.2016 at 11.00 in Dipartimento Medicina Sperimentale (DIMES), Sezione di Anatomia Umana, Via 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 26.2.2016 at 16.00 in Dipartimento Medicina Sperimentale (DIMES), Sezione di Anatomia Umana, Via De Toni 14, Genova

The interview will be held on 1.3.2016 at 13.00 in Dipartimento Medicina Sperimentale (DIMES), Sezione di Anatomia Umana, Via 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. Franco FAIS

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

Title: Identification of the CLL B-cell Receptor similarities through clustering of their 3D structures.

Description: Chronic Lymphocytic Leukemia (CLL) is the most common adult leukemia in Western countries. The repertoire of Immunoglobulin variable genes (IgV) utilized by CLL clones is highly restricted and quasi-identical (stereotyped) BcR have been described in about 30% of the patients. Notably these patients share clinical features and genetic abnormalities. The goal of the project is to identify similarities of CLL BcR using BcR 3D structure clustering procedures. To this end 3D models will be obtained from the IgV heavy and light chain rearrangement sequences of several hundreds of clinically characterized CLL patients. Cluster identified will be analyzed for the most common genetic alterations (NOTCH1, TP53, SF3B1, etc.) and for patient time to first treatment and overall survival. This analysis may led to a better stratification of CLL patients.

Scientific disciplinary sector: BIO/16 HUMAN ANATOMY

Place: Dipartimento Medicina Sperimentale (DIMES)

Required degree:

Dottorato di ricerca in Scienze Immunologiche

Subjects of the interview: How it is generated and can be analyzed repertoire of rearrangements of immunoglobulin, pathogenesis of lymphoproliferative disorders, techniques of flow cytometry.

RESEARCH PROGRAM NO. 16

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 8.00 in Dipartimento Medicina Sperimentale (DIMES) sez. Istologia Via G.B.Marsano 10, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 11.00 in Dipartimento Medicina Sperimentale (DIMES) sez. Istologia Via G.B.Marsano 10, Genova

The interview will be held on 1.3.2016 at 15.00 in Dipartimento Medicina Sperimentale (DIMES) sez. Istologia Via G.B.Marsano 10, 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. Alessandro MORETTA

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

Title: Study of human memory-like NK cells isolated from both seropositive HCMV healthy individuals and patients infected/reactivating HCMV after Hematopoietic Stem Cell Transplantation.

Description: Aim of the study will be the phenotypical and functional characterization of HCMV-induced memory-like NK cells and the analysis of the molecular mechanisms regulating their generation. To this purpose NK cells will be isolated from peripheral blood of both HCMV⁺ healthy individuals and patients undergoing HSCT at different time points after transplant and subsequently analysed by suitable assays (cytofluorimetric analyses, cytotoxicity assays, cytokines production, proliferation assays). NK cells will be also FACS-sorted into different subsets and cultured in the presence or absence of HCMV-infected fibroblasts and/or dendritic cells and macrophages. The different HCMV strains needed will be previously prepared. The functional and phenotypical features of such in vitro HCMV-induced NK cells will be analyzed.

Scientific disciplinary sector: BIO/17 HISTOLOGY

Place: Dipartimento Medicina Sperimentale (DIMES)

Required degree:

Laurea Magistrale della classe LM-6 Biologia

Subjects of the interview: Innate immunity, receptors and functions of NK cells, modulation capabilities and NK receptor repertoire in response to viral infections in healthy and post HSCT patients.

It will constitute preferential criterion the previous experience in the isolation and characterization of phenotypic and functional NK cells from peripheral blood.

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

RESEARCH PROGRAM NO. 17

The assessment criteria for the qualifications and the interview will be affixed on 2.3.2016 at 8.00 in Dipartimento Medicina Sperimentale (DIMES), Sezione di Istologia (terzo piano), Via G.B. Marsano 10, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 2.3.2016 at 11.00 in Dipartimento Medicina Sperimentale (DIMES), Sezione di Istologia (terzo piano), Via G.B. Marsano 10, Genova

The interview will be held on 2.3.2016 at 15.00 in Dipartimento Medicina Sperimentale (DIMES), Sezione di Istologia (terzo piano), Via G.B. Marsano 10, 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. Alessandro MORETTA

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 23.250,00

Title: Analysis of the immunomodulatory effects of clinical grade anticancer drugs.

Description: The project will evaluate the immunomodulatory effects of clinical grade anticancer drugs such as tyrosine kinase inhibitors (Gleevec, nilotinib) and muramyl tripeptide phosphatidylethanolamine (MTP-PE) (Agreement for the free supply of drugs approved by Novartis and Takeda). In particular, we will evaluate whether the administration of such drugs at doses lower than therapeutic ones (that are used to kill cancer cells), may result in benefit to patients by acting on survival, phenotype and function of macrophages and Natural Killer (NK) cells, and on their functional interaction. In addition, the project will analyze the possible emergence of drug-mediated blocking of the immune response ("immunocheckpoints") such as PD-1/PD-Ls, which could limit the anti-tumor effects of both effector cells.

Scientific disciplinary sector: BIO/17 HISTOLOGY

Place: Dipartimento Medicina Sperimentale (DIMES)

Required degree:

Dottorato di ricerca in Immunologia, vaccinologia e trapianti d'organo-indirizzo immunologia clinica e sperimentale

Subjects of the interview:

Innate immunity in humans; receptors and functions of macrophages and NK cells; immunostimulatory and immunomodulatory cytokines; functional polarization of macrophages in physiological and pathological conditions; mechanisms of tumor escape; receptors and ligands responsible of the best known immunocheckpoints.

RESEARCH PROGRAM NO. 18

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 9.00 in Centro di eccellenza per lo studio dei meccanismi molecolari di comunicazione tra cellule: dalla ricerca di base alla clinica (CEBR), Viale Benedetto XV/ 7 (piano -1 sotto clinica oculistica), Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 12.00 in Centro di eccellenza per lo studio dei meccanismi molecolari di comunicazione tra cellule: dalla ricerca di base alla clinica (CEBR), Viale Benedetto XV/ 7 (piano -1 sotto clinica oculistica), Genova

The interview will be held on 1.3.2016 at 15.00 in Centro di eccellenza per lo studio dei meccanismi molecolari di comunicazione tra cellule: dalla ricerca di base alla clinica (CEBR), Viale Benedetto XV/ 7 (piano -1 sotto clinica oculistica), 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. Gilberto FILACI

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

Title: Analysis of immunomodulating activity of DNA in experimental models of autoimmune diseases.

Description: Systemic Lupus Erythematosus (SLE) is an autoimmune disease mainly due to the presence of anti-DNA autoantibodies causing systemic inflammation. Our previous data indicate that DNA inhibits antigen-specific immune responses. This implies that DNA physiologically might have tolerogenic functions that are subverted due to the formation of immunocomplexes with anti-DNA autoantibodies. The mechanisms through which DNA mediates its immunosuppressive activity are largely unknown. The main aim of this project will be to investigate on the immunosuppressive mechanisms of DNA performing in vitro analyses and studies in an experimental model of SLE.

Scientific disciplinary sector: MED/09 INTERNAL MEDICINE

Place: Centro di eccellenza per lo studio dei meccanismi molecolari di comunicazione tra cellule: dalla ricerca di base alla clinica (CEBR)

Required degree:

Dottorato di ricerca in Biotecnologie

Subjects of the interview:

Cell-mediated immune response; biology of antigen-presenting cells; study models and biotechnology useful for the study of intracellular molecular mechanisms; immunization with DNA.

RESEARCH PROGRAM NO. 19

The assessment criteria for the qualifications and the interview will be affixed on 26.2.2016 at 9.00 in Dipartimento di Medicina Interna e Specialità Mediche (DIMI), Viale Benedetto XV, 6 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.2.2016 at 12.00 in Dipartimento di Medicina Interna e Specialità Mediche (DIMI), Viale Benedetto XV, 6 - Genova

The interview will be held on 26.2.2016 at 14.00 in Dipartimento di Medicina Interna e Specialità Mediche (DIMI), Viale Benedetto XV, 6 - 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. Giorgio L. VIVIANI

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

Title: Possible protective role of anti-VEGF molecules in counteract detrimental effects caused by hyperglycemia and advanced glycation end products in endothelial cells.

Description: Diabetic retinopathy (DR) is one of the commonest microvascular complication of diabetes. Hyperglycemia is the major long-term determinant of vascular changes in DR and induces endothelial cell dysfunction. Under these conditions proteins undergo non-enzymatic glycation forming advanced glycation end products (AGEs). AGEs interaction with their receptor RAGE induces reactive oxygen species (ROS) generation and inflammatory reactions, which might potentiate the deleterious effects on endothelial cells. Among the pathological changes in DR, neovascularization is mainly caused by the secretion of VEGF-A, whose levels are also increased by AGEs-RAGE interaction in endothelial cells. In this regard, the research project will be aimed at assessing the effectiveness of anti-VEGF-A molecules to counteract detrimental effects caused by hyperglycemia and AGEs, and consequently prevent the endothelial cells damage.

Scientific disciplinary sector: MED/09 INTERNAL MEDICINE

Place: Dipartimento di Medicina interna e Specialità mediche (DIMI)

Required degree:

Dottorato di ricerca in Biologia e Patologia dell'Invecchiamento

Subjects of the interview:

Essential pathophysiological basis of diabetes, mechanisms of action of drugs used in the treatment of diabetes, cell culture techniques and molecular biology.

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

RESEARCH PROGRAM NO. 20

The assessment criteria for the qualifications and the interview will be affixed on **29.2.2016** at **9.30** in Dipartimento di Medicina Interna e Specialità Mediche (DIMI), Viale Benedetto XV, 6 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **29.2.2016** at **12.30** in Dipartimento di Medicina Interna e Specialità Mediche (DIMI), Viale Benedetto XV, 6 - Genova

The interview will be held on **29.2.2016** at **12.40** in Dipartimento di Medicina Interna e Specialità Mediche (DIMI), Viale Benedetto XV, 6 - 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. Antonino PICCIOTTO

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

Title: Evaluation of echocardiographic and biohumoral parameters in cirrhotic cardiomyopathy.

Description: In patients with cirrhosis is described an hyperdynamic circulatory state due to an effective hypovolemia that induces an activation of sympathetic nervous system and the renin-angiotensin-aldosterone system.

Together with the changes in hemodynamic state is important to considered a series of mechanisms such ad a down regulation of β -adrenergic receptor and the nitration of cardiac proteins which are responsible of myocardial hyporesponsiveness to catecholamines and an impairment in heart rate control.

A reduced vascular reactivity because of increased release of nitric oxide and an autonomic dysfunction also seem to play a role in the alterations observed in cirrhotic patients.

The set of alterations described above can be responsible of a progressive cardiac dysfunction known as “cirrhotic cardiomyopathy” (seen in 40-50% of patients). This term denotes a chronic cardiac dysfunction characterised by impaired contractile function, at rest or with exercise, and/or altered diastolic relaxation with electrophysiological abnormalities (prolonged of the QTc interval, abnormal chronotropic response).

Aim of the study is understand how portal hypertension can influence the development of cardiac and endothelial dysfunction in patient with cirrhosis, and if there is an impact of cardiomyopathy on survival and quality of life in patients with cirrhosis. Patients admitted to U.O. Diagnosi e terapia delle epatopatie IRCCS AOU San Martino IST with the diagnosis of cirrhosis are evaluated.

Scientific disciplinary sector: MED/12 GASTROENTEROLOGY

Place: Dipartimento di Medicina interna e Specialità mediche (DIMI)

Required degree:

Laurea V.O. in Medicina e Chirurgia

Laurea Specialistica della classe 46/S Medicina e Chirurgia

Laurea Magistrale della classe LM/41 Medicina e Chirurgia

Subjects of the interview:

Liver cirrhosis and its complications; hyperdynamic syndrome in cirrhosis; cardiac abnormalities in cirrhosis.

RESEARCH PROGRAM NO. 21

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 9.30 in Dipartimento di Medicina interna e Specialità mediche (DIMI), Viale Benedetto XV/6 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 12.30 in Dipartimento di Medicina interna e Specialità mediche (DIMI), Viale Benedetto XV/6 - Genova

The interview will be held on 1.3.2016 at 13.00 in studio della Prof.ssa Boschetti IV piano retrocorpo, Dipartimento di Medicina interna e Specialità mediche (DIMI), Viale Benedetto XV/6, 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 Mara BOSCHETTI

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

Title: Comparative GH/IGF-I system assessment in systemic lupus erythematosus and systemic sclerosis.

Description: Different rheumatic and musculoskeletal disorders, including osteoarthritis (OA), rheumatoid arthritis (RA), diffuse idiopathic skeletal hyperostosis, as well as fibromyalgia are characterized by elevated circulating GH levels. Furthermore, reduced somatostatin levels seem to be strongly associated with joint inflammation (as seen in RA), as well as in elderly patients with the inflammatory complications of knee OA. Previous studies have also suggested that alterations in this hypothalamic/pituitary axis may contribute to systemic lupus erythematosus (SLE) progression. Similarly, IGF-I is reported involved in the development of systemic sclerosis (SS).

The aim of the study is to measure inflammatory markers (ESR, CRP), renal function and 25OH vitamin D, in addition to the levels of IGF-I, IGFBP3 and ALS to evaluate the influence of these hormones on the activity of the disease, in age comparable patients affected by SS and SLE.

Scientific disciplinary sector: MED/13 ENDOCRINOLOGY

Place: Dipartimento di Medicina interna e Specialità mediche (DIMI)

Required degree:

Diploma di specializzazione in Endocrinologia e Malattie del Ricambio con adeguata produzione scientifica derivante da trial clinici, interventi a convegni nazionali ed internazionali e lavori pubblicati su riviste impattate.

Subjects of the interview:

Pituitary axis, GH IGF system, substitution treatment, SLE, scleroderma, hormonal immunomodulation.

RESEARCH PROGRAM NO. 22

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 9.00 in Sala Riunioni del Reparto di Chirurgia Vascolare ed Endovascolare – Monoblocco 12° piano Lev. IRCCS San Martino – Ist, L.go Rosanna Benzi 10, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 12.00 in Sala Riunioni del Reparto di Chirurgia Vascolare ed Endovascolare – Monoblocco 12° piano Lev. IRCCS San Martino – Ist, L.go Rosanna Benzi 10 , Genova

The interview will be held on 1.3.2016 at 15.30 in Sala Riunioni del Reparto di Chirurgia Vascolare ed Endovascolare – Monoblocco 12° piano Lev. IRCCS San Martino – Ist, L.go Rosanna Benzi 10, 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. Domenico PALOMBO

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

Title: Evaluation of bioactive molecules in the mechanism ischemia – reperfusion and in the process of atherogenic inflammation and their possible use in engineered bio re-absorbable implants.

Description: Many studies suggest that a higher intake of antioxidants is associated with a reduced risk of developing vascular disease; the study first aim is to evaluate the in vitro effects of TNF on the expression of molecules associated with endothelial dysfunction in order to identify new molecular targets that can be used for the development of new strategies with different molecules for the treatment and prevention of vascular diseases associated with endothelial dysfunction. We will continue the evaluation of Apigenin, a bioactive flavon with strong antioxidant and anti-inflammatory properties, that can counteract the effects of TNF on the endothelium, verifying the molecular mechanisms and signal pathways involved.

Next to apigenin also quercetin will be evaluated, and also object of this study will be the role of pleiotrophin and other "chemoattractants", delving into their possible use in the research program of engineered bioabsorbable implants.

The effects of these and other bioactive molecules on endothelium induced oxidative stress will be explored, also in regard with mechanisms of ischemia - reperfusion.

Another field of research of this study is the possible "targeting" of the studied antioxidants on atherosclerotic plaques.

Scientific disciplinary sector: MED/22 VASCULAR SURGERY

Place: Dipartimento di Scienze chirurgiche e diagnostiche integrate (DISC)

Required degree:

Dottorato di ricerca in Biologia e Medicina Sperimentale – Indirizzo Biotecnologie

Subjects of the interview:

Bioactive molecules and oxidative stress induced to endothelium, also with mechanisms of ischemia - reperfusion; mode "targeting" of "bioactive molecules" of atherosclerotic plaques; engineering with bioactive molecules of bioabsorbable implants.

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

RESEARCH PROGRAM NO. 23

The assessment criteria for the qualifications and the interview will be affixed on **29.2.2016** at **9.00** in Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili (DINOGLMI) - Clinica Neurologica - Largo Paolo Daneo 3, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **29.2.2016** at **12.00** in Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili (DINOGLMI) - Clinica Neurologica - Largo Paolo Daneo 3, Genova

The interview will be held on **29.2.2016** at **13.00** in Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili (DINOGLMI) - Clinica Neurologica - Largo Paolo Daneo 3, 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. Giovanni Luigi MANCARDI

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

Title: Excessive daytime sleepiness and prevention of road accidents and injuries in general population.

Description: Excessive daytime sleepiness (EDS) is one of the main causes of road accidents, and is to blame for almost 20% of the total. The EDS has many contributory causes, including: the syndrome of obstructive sleep apnea (OSA), the most important medical cause of EDS, lifestyle and habits, working conditions and environmental factors causing sleep deprivation and abnormal sleep-wake cycle. Early identification of high-risk individuals and proper diagnosis would be expected to lead, to a significant decrease in the risk of road accidents and injuries. The aim of this project is to analyze the prevalence of EDS and sleep disorders in general population, in order to reduce the risk of accidents and injuries, and to develop a program focused prevention and health promotion.

Scientific disciplinary sector: MED/26 NEUROLOGY

Place: Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili (DINOGLMI)

Required degree:

Laurea V.O. in Psicologia

Laurea Specialistica della classe 58/S Psicologia

Laurea Magistrale della classe LM-51 Psicologia

Subjects of the interview:

Neurophysiology of sleep, sleep disorders and circadian rhythm, the main causes of excessive daytime sleepiness, interactions drowsiness -psychomotor performance, drowsiness detention systems.

RESEARCH PROGRAM NO. 24

The assessment criteria for the qualifications and the interview will be affixed on 29.2.2016 at 10.00 in Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili (DINOEMI), Largo Paolo Daneo 3, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 9.00 in Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili (DINOEMI), Largo Paolo Daneo 3, Genova

The interview will be held on 1.3.2016 at 12.00 in biblioteca del Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili (DINOEMI), Largo Paolo Daneo 3, 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. Angelo SCHENONE

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

Title: Development and validation of a new instrument [sensor engineered glove test (segt)] for evaluation of motor performance of hand in patients with peripheral neuropathies.

Description: SEGT records the opposition movements of the hands fingers. The group of Prof. Schenone has already demonstrated the effectiveness of SEGT to discriminate healthy controls (HT) from patients with Charcot-Marie-Tooth (CMT) neuropathy and there are significant differences among HT, asymptomatic and symptomatic patients. Therefore, SEGT is a promising tool to evaluate hands function in neurological diseases. Validity and responsiveness of SEGT have yet to be demonstrated.

The project aims at showing:

- Validity: motor performance of 60 CMT patients will be evaluated with SEGT and results compared with the Sollerman scale (a gold standard for the assessment of the hand function in CMT patients).
- Intra and interrater reproducibility: will be evaluated by a test-retest method
- Responsiveness: the test will be administered at 3 time points (baseline, 6th month and 12th month).

Scientific disciplinary sector: MED/26 NEUROLOGY

Place: Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili (DINOEMI)

Required degree:

Laurea Specialistica della classe 6/S Biologia

Laurea Magistrale della classe LM-6 Biologia

Subjects of the interview:

Hereditary neuropathies, neuropathy of Charcot-Marie-Tooth, elements of assessment of the upper limb.

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

RESEARCH PROGRAM NO. 25

The assessment criteria for the qualifications and the interview will be affixed on 29.2.2016 at 7.30 in padiglione 4 (DISC), Ospedale S. Martino, Largo Rosanna Benzi 10, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 29.2.2016 at 10.30 in padiglione 4 (DISC), Ospedale S. Martino, Largo Rosanna Benzi 10, Genova

The interview will be held on 29.2.2016 at 13.30 in padiglione 4 (DISC), Ospedale S. Martino, Largo Rosanna Benzi 10, 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. Paolo PERA

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

Title: The use of long implants in immediate loading rehabilitations: a split-mouth study.

Description: The aim of the present research is to compare long implants (longer than 15 mm) vs standard implants in patients rehabilitated with full-arch immediate loading rehabilitations.

In each dental arch will be inserted 4 implants: in one (randomly selected) hemi-arch 2 standard implants will be inserted; in the other 2 long implants.

After impression, the clinicians will fill a questionnaire dealing with their satisfaction in relation to the two types of implants. Full-arch screw-retained prostheses will be delivered within 48 hours after surgery.

At baseline (implant insertion), 3 and 6 months, 1 year and then annually the following parameters will be recorded: peri-implant bone remodelling (by intra-oral radiographs), plaque index, bleeding on probing and probing depth. Possible surgical and prosthodontics complications will be recorded. Bone density will be evaluated at baseline using the CBCT.

Scientific disciplinary sector: MED/28 ORAL DISEASES AND DENTISTRY

Place: Dipartimento di Scienze chirurgiche e diagnostiche integrate (DISC)

Required degree:

Laurea V.O. in Odontoiatria e protesi dentaria

Laurea Specialistica della classe 52/S Odontoiatria e protesi dentaria

Laurea Magistrale della classe LM-46 Odontoiatria e protesi dentaria

Subjects of the interview:

Pathophysiology of the stomatognathic system, implant-prosthetic rehabilitation of partially and totally edentulous patient.

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

RESEARCH PROGRAM NO. 26

The assessment criteria for the qualifications and the interview will be affixed on 26.2.2016 at 10.00 in Dipartimento di Scienze della Salute (DISSAL), Via Pastore 1, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.2.2016 at 13.00 in Dipartimento di Scienze della Salute (DISSAL), Via Pastore 1, Genova

The interview will be held on 26.2.2016 at 16.00 in Dipartimento di Scienze della Salute (DISSAL), Via Pastore 1, 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. Roberto GASPARINI

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

Title: Influenza vaccination in the elderly. How the use of indices of deprivation, of the main socio-economic characteristics and of the need for information/training can help to improve vaccination coverage, thereby reducing access to hospital Emergency Departments (ED) and influenza-related hospitalizations.

Description: Vaccination is the most effective means of preventing influenza and reducing its associated risks. In Italy, vaccination is actively offered free of charge to subjects aged ≥ 65 years and to risk groups. However, vaccination coverage among subjects aged ≥ 65 years is declining and fails to reach the minimum limit of 75%. To overcome this problem, an effective strategy may be to promote influenza vaccination through programmes that target specific subjects. Therefore, to better identify population subgroups that do not comply with vaccination, we propose the use of socio-economic deprivation indices that can identify and evaluate the relationship between socio-economic inequalities and health outcomes.

Scientific disciplinary sector: MED/42 HYGIENE AND PUBLIC HEALTH

Place: Dipartimento di Scienze della salute (DISSAL)

Required degree:

Laurea V.O. in Scienze Politiche - Indirizzo Economico-Politico

Laurea Specialistica della classe 64/S Scienze dell'economia o 70/S Scienze della politica

Laurea Magistrale della classe LM-56 Scienze dell'economia o LM-62 Scienze della politica

Subjects of the interview:

Influenza epidemiology, indices of deprivation and application methodology, socio-economic inequalities and health outcomes, clinical, social and economic impact of influenza.

RESEARCH PROGRAM NO. 27

The assessment criteria for the qualifications and the interview will be affixed on 3.3.2016 at 9.00 in Dipartimento di Scienze della Salute (DISSAL), Via Pastore 1, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 3.3.2016 at 12.00 in Dipartimento di Scienze della Salute (DISSAL) Via Pastore 1, Genova

The interview will be held on 3.3.2016 at 14.00 in Dipartimento di Scienze della Salute (DISSAL) Via Pastore 1, 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 Loredana SASSO

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

Title: Flu vaccination in the elderly. How the use of the information/training needs can help improve vaccine coverage and consequently reduce access to the Accident and Emergency Department (A&E) and hospitalizations related to influenza.

Description: Actions of awareness-raising/education in General Practitioners will be implemented, for the development of the project on influenza vaccination awareness-raising, in relation to the territorial distribution of the groups previously identified, to arrange the promotion of vaccination in the more resistant groups. The project also intends to develop and apply instruments that have been tailored for population groups resistant to vaccination to increase their adhesion through the construction and application of communication/training tools and by facilitating the practice of vaccination. Actions will be implemented both through direct contact techniques and the use of traditional means of communication and "new media". These actions will be designed to reach both the population of older people and their families, so that these may help to improve their relative's adherence to flu vaccination.

Scientific disciplinary sector: MED/45 NURSING SCIENCES: GENERAL, CLINICAL AND PAEDIATRIC

Place: Dipartimento di Scienze della Salute (DISSAL)

Required degree:

Laurea Specialistica della classe SNT/01/S Scienze infermieristiche e ostetriche

Laurea Magistrale della classe LM/SNT1 Scienze infermieristiche e ostetriche

Argomenti del colloquio:

Valuation models and compliance adherence to influenza vaccination. Tools for assessing the risk of non-influenza vaccination for caregivers.

RESEARCH PROGRAM NO. 28

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 10.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno Infantili (DINOEMI) – Largo P. Daneo, 3, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 13.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno Infantili (DINOEMI) – Largo P. Daneo, 3, Genova

The interview will be held on 1.3.2016 at 14.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno Infantili (DINOEMI) – Largo P. Daneo, 3, Genova

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Scientific coordinator: Prof. Marco TESTA

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

Title: Validation of assessment and treatment procedures for subacute and chronic low back and neck pain.

Description: Since the etiology of nonspecific low back pain and neck pain is yet to be determined, their therapy should be based on a pragmatic approach driven by the functional impairments and the level of disability and participation showed by the individual patient.

The project aims to develop an assessment and treatment protocol for subacute and chronic low back pain and neck pain, centred on the classification of patients in specific subgroups based on provocative movements and current psychosocial profile of the patient.

The standardisation of the assessment procedure and of the following treatment is directed to the elaboration of a model of patient management able to optimise the therapeutic outcome and to reduce as much as possible the weight that the interindividual bias depending on the personal expertise has in the exercise selection.

Scientific disciplinary sector: MED/48 SCIENZE INFERMIERISTICHE E TECNICHE NEURO-PSICHIATRICHE E RIABILITATIVE

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno Infantili (DINOEMI)

Required degree:

Laurea Specialistica della classe SNT/02/S Scienze delle professioni sanitarie della riabilitazione.

Laurea Magistrale della classe LM/SNT2 Scienze riabilitative delle professioni sanitarie.

Subjects of the interview:

The candidate must demonstrate adequate knowledge in clinical spinal pain, physiotherapy of musculoskeletal pain, in the field of manual therapy and in the methodology of evidence-based medicine (EBM).

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

RESEARCH PROGRAM NO. 29

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 10.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno Infantili (DINOEMI) – Largo P. Daneo, 3, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 13.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno Infantili (DINOEMI) – Largo P. Daneo, 3, Genova

The interview will be held on 1.3.2016 at 15.30 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno Infantili (DINOEMI) – Largo P. Daneo, 3, Genova

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Scientific coordinator: Prof. Marco TESTA

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

Title: Muscle synergies analysis of between-muscles motor adaptations of subjects with myofascial pain during a reaching task.

Description: The theories regarding the adaptations of the motor system to pain assume that such adaptations involve not only the affected muscle but also the muscles acting as synergist for that movement. While the within-muscle adaptations occurring in presence of myofascial trigger points have been described extensively, the between-muscles adaptations are poorly studied because of a paucity of adequate methodological approaches. Recently, mathematical approaches used in the field of bioengineering have become useful as they allow to reduce the complexity of several EMG signals to few muscle synergies, which characterize the body movement quantitatively. The aim of the present project is to investigate the relationship between the presence of myofascial trigger point and muscle recruitment during a reaching task, analyzed with the methodology of synergies extraction.

Scientific disciplinary sector: MED/48 NEUROPSYCHIATRIC AND REHABILITATION NURSING SCIENCES

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno Infantili (DINOEMI)

Required degree:

Laurea Specialistica della classe SNT/02/S Scienze delle professioni sanitarie della riabilitazione.

Laurea Magistrale della classe LM/SNT2 Scienze riabilitative delle professioni sanitarie.

Subjects of the interview:

The candidate must demonstrate adequate knowledge in clinic of myofascial pain and skills in the clinical assessment of myofascial pain. It must demonstrate good knowledge of statistical methods used in the extraction of motor synergies and skills in the use of surface electromyography.

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

RESEARCH PROGRAM NO. 30

The assessment criteria for the qualifications and the interview will be affixed on 2.3.2016 at 14.00 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Sezione MASET, Via Montallegro 1, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 2.3.2016 at 17.00 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Sezione MASET, Via Montallegro 1, Genova

The interview will be held on 2.3.2016 at 2.3.2016 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Sezione MASET, Via Montallegro 1, 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. Pietro ZUNINO

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

Title: Investigation on turbulence development within centrifugal compressor impeller and rotor/stator interaction for micro gas turbine applications.

Description: The research programme concerns the study of turbulence development within rotating ducts of centrifugal compressors with a focus on Coriolis effects and on rotor/stator aerodynamic interaction. Computational tools such as commercial CFD, open source and in house developed tools will be used for the fine tuning of turbulence models parameters for the specific application. The convenience of commercial and opensource codes will be investigated and tools performance will be assessed on properly arranged test cases.

Scientific disciplinary sector: ING-IND/08 FLUID MACHINERY

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

Required degree:

Dottorato di ricerca in Ingegneria delle Macchine a Fluido

Subjects of the interview:

Turbulence models, Coriolis effect on the turbulence in rotating ducts, interaction rotor / stator in centrifugal machines.

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

RESEARCH PROGRAM NO. 31

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 9.00 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Via Montallegro 1, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 12.00 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Via Montallegro 1, Genova

The interview will be held on 1.3.2016 at 12.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Via Montallegro 1, Genova

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Scientific coordinator: Prof. Carlo CRAVERO

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

Title: Fluid-dynamics models for glass production plants.

Description: In glass production process, several thermo-fluid-dynamic related issues exist. CFD could become a valuable support for designers in a field where experimentation and online modifications are very difficult by nature of glass manufacturing industry.

The fellowship aims to set up, and to validate through experimental data, CFD models for three furnace components: combustion chamber, regenerative chambers and piping. Despite the combustion chamber structure being rather simple combustion and radiant heat involve extremely complex physics. On the other hand the flow physics in piping is more straightforward but the geometries are complexly organized to optimize plant layout, this being a bottleneck to the mesh generation process. As far as regenerative chambers are concerned, a detailed geometrical representation is not even possible due to honeycomb like structures, several meters high, on the inside which will be essential to replace with some proper model.

Scientific disciplinary sector: ING-IND/08 FLUID MACHINERY

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

Required degree:

Laurea V.O. in Ingegneria Meccanica

Laurea Specialistica della classe 33/S Ingegneria energetica e nucleare, 36/S Ingegneria Meccanica, 38/S Ingegneria per l'ambiente e il territorio.

Laurea Magistrale della classe LM-30 Ingegneria energetica e nucleare, LM-33 Ingegneria Meccanica, LM-35 Ingegneria per l'Ambiente e il territorio.

Subjects of the interview:

Fluid dynamics and heat transfer, computational fluid dynamics, installations for the production of glass.

RESEARCH PROGRAM NO. 32

The assessment criteria for the qualifications and the interview will be affixed on 4.3.2016 at 9.00 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Sezione MASET, Via Montallegro 1, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 4.3.2016 at 12.00 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME) Sezione MASET, Via Montallegro 1, Genova

The interview will be held on 4.3.2016 at 18.00 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Sezione MASET, Via Montallegro 1, Genova

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Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of thAs regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at deoconferenza per mezzo SKYPE) contattando per tempo il prof. Alberto Traverso telefonicamente al numero +39 0103532455 o via e-mail all'indirizzo: alberto.traverso@unige.it

Scientific coordinator: Prof. Alberto TRAVERSO

NO.1 research fellowship - Duration: 3 years – Annual pre-tax amount: € 27.133,00

Title: Design and support in installation activities for an emulator plant for hybrid systems.

Description: The research activity will be involved in the design of an experimental plant for the emulation of hybrid systems based on SOFCs. The beneficiary will have to devote his attention on the instrumentation for data acquisition related to experimental measurements and for plant control. It will be necessary to perform a design activity on the high temperature vessel that will be used for SOFC emulation. At the end of the design work, the beneficiary will have to manage the activities related to component installation, control system development and experimental tests.

Scientific disciplinary sector: ING-IND/09 ENERGY SYSTEMS AND POWER GENERATION

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

Required degree:

Laurea V.O. in Ingegneria meccanica

Laurea Specialistica della classe 36/S Ingegneria meccanica

Laurea Magistrale della classe LM-33 Ingegneria meccanica

Subjects of the interview:

Hybrid systems, microturbines, superchargers, high temperature materials, control systems, instrumentation for the acquisition of flow, pressure and temperature.

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

RESEARCH PROGRAM NO. 33

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2016 at 9.30 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Opera Pia 13, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2016 at 12.30 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Opera Pia 13, Genova

The interview will be held on 1.3.2016 at 14.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Opera Pia 13, Genova

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Scientific coordinator: Prof. Raffaele BOLLA

NO.2 research fellowship - Duration: 1 year – Annual pre-tax amount: € 19.367,00

Title: Virtualization of home multimedia smart devices in an SDN/NFV framework.

Description: The research grants are thought in the context of the next generation of telecommunications networks, that will be based on the new SDN (Software Defined Network) and NFV (Network Function Virtualization) paradigms.

The main objective is to design a platform that allows the Telco Operators to virtualize home entertainment devices, like for example multimedia set-top boxes and videogame consoles, in the core network. In this way, users can access them even when they are in mobility, independently of their current geographical position.

Particular attention will be devoted to the definition of orchestration and hardware and software resource allocation, to the energy saving aspects, and to the performance evaluation through specific quality indicators, timely defined and derived through ad-hoc analytical and simulative models.

Scientific disciplinary sector: ING-INF/03 TELECOMMUNICATIONS

Place: Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN)

Required degree:

Laurea V.O. in Ingegneria Elettronica o Ingegneria delle Telecomunicazioni

Laurea Specialistica della classe 30/S Ingegneria delle Telecomunicazioni e 32/S Ingegneria Elettronica

Laurea Magistrale della classe LM-27 Ingegneria delle Telecomunicazioni, LM-29 Ingegneria Elettronica

Subjects of the interview:

Telecommunications networks in TCP / IP technology, techniques of virtualization in cloud environment, SDN network architecture, network architecture NFV, UPnP and DLNA protocols, programming skills in C ++, notions of programming in Linux environments.

SCIENTIFIC DISCIPLINARY AREA: HISTORY, PHILOSOPHY, PEDAGOGY AND PSYCHOLOGY

RESEARCH PROGRAM NO. 34

The assessment criteria for the qualifications and the interview will be affixed on **3.3.2016** at **10.00** in Dipartimento di Scienze della Formazione (DISFOR), Corso A. Podestà, 2 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **3.3.2016** at **14.00** in Dipartimento di Scienze della Formazione (DISFOR) Corso A. Podestà, 2 - Genova

The interview will be held on **4.3.2016** at **11.00** in Dipartimento di Scienze della Formazione (DISFOR), Corso A. Podestà, 2 - Genova

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Scientific coordinator: Prof.ssa Augusta MOLINARI

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

Title: International migrations and maritime traffic in Genoa in the first half of the Twentieth Century.

Description: The research program relates to the study of the development of maritime traffic in the port of Genoa and its economic impact on the city in the first half of the Twentieth Century. The purpose of the research is in particular to investigate the role of the port of Genoa in the international flows of historical migrations at the start of the century, and the effects of the emigration movement on the industrial development of the city (ship owners, shipping companies, shipyards and manufacturing industries). The most relevant subjects (carriers, ship agents, maritime workers, as well as their organizational and managing structures) will be considered and analyzed in detail. Particular attention will be devoted to recover and classify all different data-sources, useful for catching the variety and complexity of economic, social, institutional networks involved in the processes of maritime and migration flows.

Scientific disciplinary sector: M-STO/04 CONTEMPORARY HISTORY

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree:

Dottorato di ricerca in Storia

Subjects of the interview:

European historical migrations in the context of the economic, social and cultural history in the Genoa in the late nineteenth and early twentieth century; Migration processes between Old and New World, with particular reference to the development of maritime traffic in Italian ports.

RESEARCH PROGRAM NO. 35

The assessment criteria for the qualifications and the interview will be affixed on 2.3.2016 at 16.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Andrea Podestà, 2 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 3.3.2016 at 9.00 in Dipartimento di Scienze della Formazione (DISFOR) Corso Andrea Podestà, 2 - Genova

The interview will be held on 4.3.2016 at 9.30 in Dipartimento di Scienze della Formazione (DISFOR) Corso Andrea Podestà, 2 - Genova

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Scientific coordinator: Prof.ssa Nicoletta VARANI

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

Title: The promotion of sustainable tourism focused on the development of environmental and cultural heritage.

Description: The research has as its objective the implementation of sustainable tourism in the context of Liguria through the enhancement of cultural and natural niche. Attention will focus on the creation of effective collaboration between the University of Genoa and the world of the Company to achieve the goal of indicated. In this context, the study will make use of the typical tools of social research that will be complemented tools useful in the case of the project. These actions are expected a deep knowledge of the Liguria region in its natural and cultural aspects, the companies operating in the tourism sector and key competences.

Scientific disciplinary sector: M-GGR/01 GEOGRAPHY

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree:

Laurea V.O. in Scienze dell'educazione

Laurea Specialistica della classe 87/S Scienze Pedagogiche

Laurea Magistrale della classe LM-85 Scienze Pedagogiche

Subjects of the interview:

Sustainable tourism, cultural and UNESCO heritage, the cultural landscape.

RESEARCH PROGRAM NO. 36

The assessment criteria for the qualifications and the interview will be affixed on 2.3.2016 at 12.00 in Dipartimento di Scienze della Formazione (DISFOR) Corso Andrea Podestà, 2 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 2.3.2016 at 16.00 in Dipartimento di Scienze della Formazione (DISFOR) Corso Andrea Podestà, 2 - Genova

The interview will be held on 3.3.2016 at 10.00 in Dipartimento di Scienze della Formazione (DISFOR) Corso Andrea Podestà, 2 - Genova

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Scientific coordinator: Prof. Davide PARMIGIANI

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

Title: Disabled child at nursery: design, relation and continuity of educational intervention.

Description: The research design will be structured on the basis of the research-action and case-study models. They are aimed at investigating the following research questions: how many disabled children are present in the nurseries of Liguria region (in particular, the municipality of Genoa); what are the different disabilities' typologies and the educational strategies; what are the reasons behind the families' decision about the attendance of their children at the nursery; what are the features of the educational design during the first nursery adaptation period. The nursery attendance will be considered as independent variable in order to investigate some potential correlations among the disabled children who attend the infant school currently (3-6 years old); in addition, we will measure the incidence of the disabled children born during the last two years and the number of disabled children enrolled in the lists of educational services of the Genoa municipality; the different typologies of the interventions carried out by the educators and the list of services (expertise analysis of the educational staff).

Scientific disciplinary sector: M-PED-03 METHODOLOGIES OF TEACHING AND SPECIAL EDUCATION

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree:

Dottorato di ricerca in Pedagogia o Dottorato di ricerca in Qualità della Formazione: saperi delle differenze e sviluppo della conoscenza

Subjects of the interview:

Fundamentals of special education, early learning, planning and evaluation of education, knowledge of industry regulations (childcare and inclusion services), professional profiles of educational services to children.

RESEARCH PROGRAM NO. 37

The assessment criteria for the qualifications and the interview will be affixed on 26.2.2016 at 12.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Andrea Podestà, 2 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 29.2.2016 at 12.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Andrea Podestà, 2 - Genova

The interview will be held on 1.3.2016 at 12.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Andrea Podestà, 2 – IV piano, stanza 4/A1, 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 Mirella ZANOBINI

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

Title: Control processes and Emotional Regulation in Adolescence.

Description: The study aims to investigate the relationship between executive functions (EF) and emotion regulation in typically developing adolescents and in adolescents with eating disorders. The eating disorders are associated with a reduced ability to control emotions and impulses.

The study will involve a sample of typically developing adolescents aged between 14 and 19 years and a group of adolescents with eating disorders treated in specialized centers. A battery of tests will be used to evaluate the EF and two questionnaires to investigate the presence of difficulties in emotions regulation.

Scientific disciplinary sector: M-PSI/04 DEVELOPMENTAL AND EDUCATIONAL PSYCHOLOGY

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree:

Dottorato di ricerca in discipline psicologiche

Subjects of the interview:

The development of the processes of cognitive control and emotion regulation, techniques and tools for assessing executive function in adolescence, methods and techniques for the analysis of psychological constructs.

During the interview it will take place also a discussion on the experiences of previous research in order to assess the candidates' ability and motivation to research.

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

RESEARCH PROGRAM NO. 38

The assessment criteria for the qualifications and the interview will be affixed on 2.3.2016 at 9.00 in Dipartimento di Scienze Politiche (DISPO), Torre centrale 5° piano, - P.le E. Brignole, 2/cancello, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 2.3.2016 at 12.00 in Dipartimento di Scienze Politiche (DISPO) Torre centrale 5° piano, - P.le E. Brignole, 2/cancello, Genova

The interview will be held on 2.3.2016 at 14.00 in Dipartimento di Scienze Politiche (DISPO) Torre centrale 5° piano, - P.le E. Brignole, 2/cancello, Genova

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Scientific coordinator: Prof.ssa Ilaria QUEIROLO

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

Title: Collection and development of best practices in cross border cases for the survival of distressed companies (JUST/2014/JCOO/AG/CIVI7693).

Description: EU Research Project JUST/2014/JCOO/AG/CIVI 4000007693, Save Comp: Collection and development of best practices in cross border cases for the survival of distressed companies. The candidate must have a good knowledge of private and procedural international law, of principles and rules of winding-up proceedings, also in comparative and international law. The candidate will assist activities of the Project, carry out research activities and collect legal materials of private and procedural international law, offer an assessment report, identify problems and best practices (already developed or to be developed), analyse aggregated data collected during the Project.

Scientific disciplinary sector: IUS/13 INTERNATIONAL LAW

Place: Dipartimento di Scienze Politiche (DISPO)

Required degree:

Laurea V.O. in Giurisprudenza

Laurea Specialistica della classe 22/S Giurisprudenza

Laurea Magistrale della classe LMG/01 Giurisprudenza

Subjects of the interview:

Private international law and procedural law in the European civil and commercial matters, Regulation EC 1346/2000; EU Regulation 2015/848; Law 218/1995; Bankruptcy law; Model laws on the subject of pre-insolvency, insolvency and bankruptcy proceedings.

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

RESEARCH PROGRAM NO. 39

The assessment criteria for the qualifications and the interview will be affixed on 3.3.2016 at 14.00 in Dipartimento di Giurisprudenza, sezione di Filosofia e Sociologia del Diritto, via Balbi, 30/ 17, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 3.3.2016 at 17.00 in Dipartimento di Giurisprudenza, sezione di Filosofia e Sociologia del Diritto, via Balbi, 30/17, Genova

The interview will be held on 3.3.2016 at 17.30 in Dipartimento di Giurisprudenza, sezione di Filosofia e Sociologia del Diritto, via Balbi, 30/ 17, 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. Pierluigi CHIASSONI

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

Title: Constitutional Interpretation, critique of fundamental juridical concepts and “revolt against Formalism” in the theoretical work and judicial activity of Oliver Wendell Holmes jr.

Description: Regarded as a forerunner and a “founding father” of American Legal Realism, Oliver Wendell Holmes Jr. combined his work as a theorist of law with his long and remarkable judicial activity, firstly on the Supreme Court of Massachusetts and, then, on the United States Supreme Court. The purpose of the project is analyzing the interaction among the philosophical work and the judicial opinions of the Bostonian justice, reconstructing his substantial contribution to the development of American (both judicial and doctrinal) jurisprudence and constitutional interpretation, particularly in the matter of protection of individual rights (especially free speech), trade law and contract law. More specifically, the project is, on the one hand, aimed to investigate the distinctive argumentation techniques elaborated by Holmes and, on the other, his radical critique of fundamental juridical concepts (such as obligation, right, liability, sovereignty, property) in view of overcoming the “formalistic paradigm” until then dominating both the American academic legal thought and Supreme Court's argumentation.

Scientific disciplinary sector IUS/20 PHILOSOPHY OF LAW

Place: Dipartimento di Giurisprudenza

Required degree:

Laurea V.O. in Giurisprudenza o in Filosofia

Laurea Specialistica della classe 22/S Giurisprudenza, 18/S Filosofia teoretica, morale, politica ed estetica

Laurea Magistrale della classe LMG/01 Giurisprudenza, LM/78 Scienze Filosofiche.

Subjects of the interview:

Oliver W. Holmes, American Legal Realism, Pragmatism, instrumentalism, Giuspolitica outline of the history of the Progressive Era, History of American legal thought, History of the Supreme Court of the United States of America, elements of the history of the American Contract Law between 800 and 900, history of political ideas and legal theory of law, techniques of interpretation and argumentation.

The candidate will need to prove his/her knowledge of the English, French and Spanish language.

RESEARCH PROGRAM NO. 40

The assessment criteria for the qualifications and the interview will be affixed on **29.2.2016** at **10.00** in Dipartimento di Scienze Politiche (DISPO) - P.le E. Brignole, 2, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **29.2.2016** at **13.00** in Dipartimento di Scienze Politiche (DISPO) - P.le E. Brignole, 2, Genova

The interview will be held on **29.2.2016** at **14.00** in Dipartimento di Scienze Politiche (DISPO) - P.le E. Brignole, 2, 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 GANDULLIA

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

Title: Regional public policies to promote firms' internationalization.

Description: The research project aims to analyze the level of internationalization of the Ligurian production system by building a database of multidisciplinary indicators in order to identify the weaknesses and strengths of the system, considering all the drivers involved (economic, socio-cultural, infrastructural, legislative). By monitoring the available data and through the analysis of the tools of intervention tested in other (national and not) territories, the aim is to provide policy suggestions useful to set effective regional policies to ensure the long term development of the regional economy.

Scientific disciplinary sector: SECS-P/03 PUBLIC ECONOMICS

Place: Dipartimento di Scienze Politiche (DISPO)

Required degree:

Dottorato di ricerca in Economia pubblica

Subjects of the interview:

Public Economics; Statistics and Econometrics.

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

RESEARCH PROGRAM NO. 41

The assessment criteria for the qualifications and the interview will be affixed on 29.2.2016 at 9.30 in Dipartimento di Scienze della Formazione (DISFOR) Corso Andrea Podestà, 2 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 29.2.2016 at 12.30 in Dipartimento di Scienze della Formazione (DISFOR) Corso Andrea Podestà, 2 - Genova

The interview will be held on 29.2.2016 at 15.30 in Dipartimento di Scienze della Formazione (DISFOR) Corso Andrea Podestà, 2 - 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. Mauro PALUMBO

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

Title: Construction of indicators for regional social policies monitoring and evaluation

Description: The project implies a research aimed at defining operational tools and knowledge to support the implementation of measures envisaged by the Liguria Regional Integrated Social Plan 2013-2015. Using quantitative research methods and tools related to the field of evaluation research, the project aims to build tools for analyzing and monitoring socio-demographic characteristics of the various areas of Liguria (from a perspective of empowerment of the responsiveness of regional social policies) and the implementation of a continuous monitoring system for collecting information to assess the degree (and the way) to achieve the objectives of regional social policies.

Scientific disciplinary sector: SPS/07 GENERAL SOCIOLOGY

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree:

Dottorato di ricerca in Sociologia o in Metodologia della ricerca nelle scienze umane

Subjects of the interview:

The process of construction of the indicators. Variables and indicators. Lazarsfeld paradigm. The design of social research.

RESEARCH PROGRAM NO. 42

The assessment criteria for the qualifications and the interview will be affixed on 26.2.2016 at 10.00 in Dipartimento di Scienze della Formazione (DISFOR) Corso Andrea Podestà, 2 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.2.2016 at 14.00 in Dipartimento di Scienze della Formazione (DISFOR) Corso Andrea Podestà, 2 - Genova

The interview will be held on 29.2.2016 at 9.30 in Dipartimento di Scienze della Formazione (DISFOR) Corso Andrea Podestà, 2 - 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 QUEIROLO PALMAS

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

Title: School, migrations and urban transformations.

Description: The research project aims to explore the relationship between school education, migrations and urban transformations. To this end the research will both analyze educational paths of youth with migrant background with qualitative and ethnographical insights at school and urban level. Research will develop in a mutual cooperation between university, municipality and other local agencies devoted to social policies.

Scientific disciplinary sector: SPS/08 SOCIOLOGY OF CULTURE AND COMMUNICATION

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree:

Dottorato di ricerca in Sociologia

Dottorato di ricerca in Scienze sociali

Dottorato di ricerca in Pensiero politico e comunicazione politica

Subjects of the interview:

Urban sociology, sociology of education and migration studies.

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