ANNEX A

SCIENTIFIC DISCIPLINARY AREA: PHYSICS

RESEARCH PROGRAM NO. 1

The assessment criteria for the qualifications and the interview will be affixed on **3.7.2017** at **18.00** 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 **4.7.2017** at **9.30** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

The interview will be held on **4.7.2017** 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. Francesco BUATIER DE MONGEOT

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

Title: Functionalization of nanostructured substrates for photonics, photovoltaics and sensors.

Description: The project will develop nanostructured techniques in substrates of interest (i) in sensor (ii) in photovoltaics and (iii) photonics and new materials. To this purpose will exploit (i) the plasmonic effects induced by metallic nanoparticles for "plasmon-enhanced" spectroscopy applications, (ii) the effects of light-amplification induced by nanostructured dielectric substrates and (iii) the modification of electronic structure of 2-d semiconductors (MoS2) grown on nanostructured substrates.
Nano-patterning processes will be developed either recurring to self-organization techniques over large area (cm^2 scale) or to lithographic processes capable to form reference nanostructures in model systems.

Scientific disciplinary sector: FIS/03 PHYSICS OF MATTER

Place: Dipartimento di Fisica (DIFI)

Required degree:
Laurea magistrale della classe LM-17 Fisica
Laurea magistrale della classe LM-29 Ingegneria elettronica
Laurea magistrale della classe LM-53 Scienza e ingegneria dei materiali

Subjects of the interview: Self-organized nanopatterning techniques, Lithographic nanofabrication techniques, Optical spectroscopy techniques, Electron and scanning Probe microscopy, Optical and plasmonic properties of photonic and photovoltaic materials.

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

SCIENTIFIC DISCIPLINARY AREA: EARTH SCIENCES

RESEARCH PROGRAM NO. 2

The assessment criteria for the qualifications and the interview will be affixed on **3.7.2017** 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 **3.7.2017** 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 **3.7.2017** 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. Cristina CARBONE

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

Title: Determination of the genetic mechanisms and refinement of the crystalline structural model of different polytypes of woodwardite [Cu_{1-x} $Al_x(SO_4)_{x/2}(OH)_2 \cdot nH_2O$].

Description: The aims of this project are the characterisation of the genetic mechanisms of woodwardite and the refinement of its structural model, developing models of the crystalline structure for different layers (with a variable number of layers from 1 to 4). The relationships between woodwardite and metals belonging to the Rare Earth Elements group will also be investigated, evaluating possible industrial applications for this mineral both for the recovery of these elements or for its use as a battery.

Scientific disciplinary sector: GEO/06 MINERALOGY

Place: Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV)

Required degree: Dottorato di ricerca in Scienze e Tecnologie per l'Ambiente e il Territorio.

Subjects of the interview: Woodwardite and its structural and genetic model.

RESEARCH PROGRAM NO. 3

The assessment criteria for the qualifications and the interview will be affixed on **4.7.2017** 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 **4.7.2017** 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 **4.7.2017** 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. Roberto CABELLA

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

Title: Mineralogical and petrographic characterisation of ancient ceramics: local productions and imports in Italy and in the Western Mediterranean.

Description: The research project is focused on the archaeometric study (through optical microscopy, SEM-EDS and XRD) of fabrics and coatings of ceramics dated from Protohistory to the Modern Age produced and imported in Italy and - more generally - in the Western Mediterranean.

Scientific disciplinary sector: GEO/09 MINING RESOURCES, MINERALOGIC AND PETROGRAPHIC APPLICATIONS FOR THE ENVIRONMENT AND FOR CULTURAL HERITAGE

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

Required degree:
Dottorato di ricerca in Scienze della Terra o Scienze e Tecnologie per l'Ambiente e il Territorio

Subjects of the interview: Mineralogical and petrographic techniques applied to ancient ceramics, mineralogical and geological markers of Ligurian ceramics, technical and compositional characteristics of the main Mediterranean pottery productions.

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

RESEARCH PROGRAM NO. 4

The assessment criteria for the qualifications and the interview will be affixed on **5.7.2017** 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 **5.7.2017** 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 **5.7.2017** 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 years – Annual pre-tax amount: € 19.367,00

Title: Mycoremediation techniques on sediment samples taken from port environments in order to a possible reuse of dredged sediments. (EU Project Interreg V-A Italy France Maritime 2014-2020 "Sediterra - Lignes directrices pour le traitement des sédiments durable de l'aire de dragage Maritime").

Description: Under the EU Project Interreg V Italy-France Maritime 2014 - 2020 "Sediterra - Lignes directrices pour le traitement des durable sédiments de dragage de l'aire Maritime" in addition to the Community legislation study on the reuse of dredged sediments, we will use innovative techniques for cleaning marine dredged sediments in order to reuse them. DISTAV will deal with the removal of heavy metals from marine sediments coming from three Italian Ports (Cagliari, Livorno and Genoa) using mycoremediation techniques, and particularly utilizing marine fungal strains and not.

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: Dottorato di ricerca in Scienze e Tecnologie per l'Ambiente e il Territorio.

Subjects of the interview: Mycoremediation and use of marine fungal strains for cleaning sediments.

RESEARCH PROGRAM NO. 5

The assessment criteria for the qualifications and the interview will be affixed on **29.6.2017** at **10.00** 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 **29.6.2017** at **13.00** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

The interview will be held on **30.6.2017** at **9.00** 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.

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. Massimiliano Burlando on the phone number +39010 3532509 or via the email address: massimiliano.burlando@unige.it.

Scientific coordinator: Prof. Massimiliano BURLANDO

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

Title: Anemological study of thunderstorm-induced winds.

Description: In the framework of the European projects "Wind and Ports" and "Wind, Ports and Sea", a wind monitoring network was established in the high Tyrrhenian ports based on sonic anemometers and wind profilers (LiDAR). The joint analysis of the measures taken by these instruments provides information on the three-dimensional spatial structure of the wind field and the temporal evolution of the meteorological phenomena that develop at the mesoscale. In the context of the activities of the Project "Wind monitoring, simulation and forecast for the smart management and safety of port, urban and territorial systems", funded by Compagnia di San Paolo, it is required to study the thunderstorm-related events recorded by means of the aforementioned monitoring network.

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; Ingegneria Civile; Ingegneria per l'ambiente e il territorio; Scienze Ambientali; Scienze Geologiche.
Laurea Specialistica delle classi: 20/S Fisica; 28/S Ingegneria civile; 38/S Ingegneria per l'ambiente e il Territorio; 50/S Modellistica matematico-fisica per l'ingegneria; 66/S Scienze dell'universo; 82/S Scienze e tecnologie per l'ambiente e il territorio; 85/S Scienze geofisiche; 86/S Scienze geologiche.
Laurea Magistrale delle classi: LM-17 Fisica; LM-23 Ingegneria civile; LM-24 Ingegneria dei sistemi edilizi; LM-26 Ingegneria della sicurezza; LM-35 Ingegneria per l'ambiente e il territorio; LM-44 Modellistica matematico-fisica per l'ingegneria; LM-58 Scienze dell'universo; LM-74 Scienze e tecnologie geologiche; LM-75 Scienze e tecnologie per l'ambiente e il territorio; LM-79 Scienze geofisiche.

Subjects of the interview: Fundamentals of atmospheric physics and wind engineering. Basic knowledge of computer programming, the Linux operating system and Matlab and Fortran languages. Analysis and management of anemometric data bases and post-processing of meteorological measurements.

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

SCIENTIFIC DISCIPLINARY AREA: BIOLOGY

RESEARCH PROGRAM NO. 6

The assessment criteria for the qualifications and the interview will be affixed on 29.6.2017 at **10.00** Dipartimento di Farmacia (DIFAR), Sezione di Farmacologia e Tossicologia, Viale Cembrano 4, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **29.6.2017** at **14.00** in Dipartimento di Farmacia (DIFAR), Sezione di Farmacologia e Tossicologia, Viale Cembrano 4, Genova.

The interview will be held on **29.6.2017** at **15.00** in Dipartimento di Farmacia (DIFAR), Sezione di Farmacologia e Tossicologia, Viale Cembrano 4, 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. Giambattista BONANNO

NO. 1 research fellowship - Duration: 1 years – Annual pre-tax amount: € 19.367.00

Title: Maladaptive responses to stress: study of the mechanisms to uncover new therapeutic targets in neuropsychiatric diseases.

Description: Detection of stress contribution to neuropsychiatric diseases is essential to identify ethiopathogenesis and possible innovative therapeutic strategies. To identify the basis of individual responses, this project will address the stress-induced cellular and molecular changes of GABA and glutamate transmission in neurons and astrocytes of rat prefrontal and frontal cortex (PFC/FC), focusing on vulnerable and resilient animals. The project will study: a) changes of neuro- and glio-transmitter release in PFC/FC during time after stress application; b) short- and long-term modifications correlating with vulnerability and resilience to stress: c) the mechanisms at the basis of the responses observed in vulnerable and resilient animals.

Scientific disciplinary sector: BIO/14 PHARMACOLOGY

Place: Dipartimento di Farmacia (DIFAR)

Required degree:
Laurea Magistrale della classe LM-13 Farmacia e Farmacia Industriale

Subjects of the interview: Cellular and molecular mechanisms of neuronal and glial transmission. Brain region dissection techniques for the preparation purification of subcellular neuronal and glial particles. Preparation of primary neuron and astrocyte cell cultures. Neuro- and glio-transmitter release techniques. Measurement of endogenous neuro- and glio-transmitters and of the main second messengers. Cellular and molecular biology techniques for the determination of intracellular calcium and other presynaptic parameters, of release mechanisms, of activation/inhibition pathways of exocytotic mechanisms. Behavioural techniques for acute and chronic mild stress application and for vulnerability and resilience determination.

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

SCIENTIFIC DISCIPLINARY AREA: MEDICINE

RESEARCH PROGRAM NO. 7

The assessment criteria for the qualifications and the interview will be affixed on **3.7.2017** at **9.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI), Istituto Gaslini, via G. Gaslini 5, Padiglione 16, primo piano, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **3.7.2017** at **12.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI), Istituto Gaslini, via G. Gaslini 5, Padiglione 16, primo piano, Genova.

The interview will be held on **3.7.2017** at **12.15** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI), Istituto Gaslini, via G. Gaslini 5, Padiglione 16, primo piano, 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. Aldamaria PULITI

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 19.367.00

Title: Analysis of the molecular bases of ataxia development through the study of the mutant Grm1crv4, a mouse model of SCAR13 ataxia.

Description: Spinocerebellar ataxia, autosomic recessive 13 (SCAR13) is a rare form of ataxia with onset in infancy. A spontaneous mouse mutation inactivating the Grm1 gene, coding for the mGluR1 receptor, induces in the mouse a neurological phenotype similar to that observed in SCAR13 affected patients. The study of this mouse model is important for characterizing the molecular bases of SCAR13 and for defining novel therapeutic approaches for this disorder. The specific aim of the research is to identify compensatory molecular mechanisms caused by the absence of mGluR1 receptors at synaptic level with the final goal of identifying possible therapeutic targets.

Scientific disciplinary sector: MED/03 MEDICAL GENETICS

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

Required degree:
Laurea Magistrale della classe LM-6 Biologia

Subjects of the interview:
To describe strategies and different steps of a research aimed at investigating gene expression variations at synaptic level, particularly those induced by the absence of mGluR1 receptors in the mouse; mouse genotyping, breeding strategies and techniques for maintaining colonies of mouse genetic models; tests for the analysis of mouse behavioural and of motor coordination activity; main techniques for evaluating gene expression.

RESEARCH PROGRAM NO. 8

The assessment criteria for the qualifications and the interview will be affixed on **5.10.2017** at **9.00** in Dipartimento di Medicina Interna e specialità mediche (DIMI), Direzione/Amministrazione, 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 **5.10.2017** at **12.00** in Dipartimento di Medicina Interna e specialità mediche (DIMI), Direzione/Amministrazione, Viale Benedetto XV 6, Genova.

The interview will be held on **5.10.2017** at **12.30** in Dipartimento di Medicina Interna e specialità mediche (DIMI), Direzione/Amministrazione, 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. Carlo Alessio NENCIONI

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 19.367.00

Title: Preclinical validation of extracellular nicotinamide phosphoribosyltransferase as a target for treating breast cancer.

Description: In the context of the project "Preclinical validation of extracellular nicotinamide phosphoribosyltransferase as a target for treating breast cancer" sponsored by the Italian Association for Cancer Research (AIRC), the successful candidate will have to apply to studies of the phenotype (welfare and tumorigenesis) of C57B6 MMTV-PyMT$^{+/+}$/Nampt$^{+/-}$ vs. C57B6 MMTV-PyMT$^{+/+}$/Nampt$^{+/+}$ mice. He/she shall also conduct in vitro studies assessing the role of secreted NAMPT in the process of epithelial cell transformation.

Scientific disciplinary sector: MED/09 INTERNAL MEDICINE

Place: Dipartimento di Medicina Interna e specialità mediche (DIMI)

Required degree:
~~Dottorato di ricerca in Medicina Traslazionale in Oncologia ed Ematologia~~
Laurea Magistrale della classe LM-6 Biologia o lauree equivalenti secondo il precedente ordinamento.
Il Dottorato di ricerca in Medicina Traslazionale in Oncologia ed Ematologia sarà considerato come titolo preferenziale per la procedura concorsuale*

Subjects of the interview:
Role of NAMPT in cancer, mouse models of breast cancer, mechanisms of epithelial-to-mesenchymal transition.

** Required degree modified with Chancellor Decree n. 1941 dated 1/6/2017*

RESEARCH PROGRAM NO. 9

The assessment criteria for the qualifications and the interview will be affixed on **6.10.2017** at **9.00** in Dipartimento di Medicina Interna e specialità mediche (DIMI), Direzione/Amministrazione, 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 **6.10.2017** at **12.00** in Dipartimento di Medicina Interna e specialità mediche (DIMI), Direzione/Amministrazione, Viale Benedetto XV 6, Genova.

The interview will be held on **6.10.2017** at **12.30** in Dipartimento di Medicina Interna e specialità mediche (DIMI), Direzione/Amministrazione, 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. Carlo Alessio NENCIONI

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 19.367.00

Title: Study of the role of secreted nicotinamide phosphoribosyltransferase (NAMPT) in the efficacy and in the toxicity of chemotherapy for breast cancer.

Description: The successful candidate will have to apply to the study of the role of secreted NAMPT in cancer cell vs. healthy cell resistance to chemotherapy. He/she shall also measure the levels of secreted NAMPT in patients undergoing chemotherapy while on a fasting-mimicking diet vs. an ad-libitum diet.

Scientific disciplinary sector: MED/09 INTERNAL MEDICINE

Place: Dipartimento di Medicina Interna e specialità mediche (DIMI)

Required degree:
Dottorato di ricerca in Immunologia Clinica e Sperimentale

Subjects of the interview:
Role of NAMPT in cancer, mechanisms of epithelial-to-mesenchymal transition, role of fasting in cancer treatment.

RESEARCH PROGRAM NO. 10

The assessment criteria for the qualifications and the interview will be affixed on **29.6.2017** at **10.00** 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 **29.6.2017** at **14.00** in Dipartimento di Medicina Interna e specialità mediche (DIMI), Viale Benedetto XV 6, Genova.

The interview will be held on **29.6.2017** at **15.30** 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. Giacomo GARIBOTTO

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 19.367.00

Title: Toll like receptors (TLRs), innate immunity and diabetic nephropathy.

Description: TLRs are a family of innate immunity receptors which mediate signal transduction pathways through the transcription factors that regulate the expression of proinflammatory molecules. TLRs are activated by endogenous signals of tissue injury and are involved in the pathogenesis of many inflammatory conditions, such as ischemia-reperfusion injury, atherogenesis, and immune-mediated diseases. TLRs are expressed on leukocytes and nonimmune cells, including native kidney cells. TLRs activate the NF-κB pathway and draw the production of proinflammatory molecules, and the upregulation of cell surface molecules. TLR4 is upregulated in vitro by high glucose in monocytes and increased TLR2 and TLR4 expression has been observed in monocytes from patients with type 2 diabetes.
This study is designed to investigate whether that innate immunity and TLRs play a role in its development and progression in diabetic nephropathy.

Scientific disciplinary sector: MED/14 NEPHROLOGY

Place: Dipartimento di Medicina Interna e specialità mediche (DIMI)

Required degree:
Dottorato di ricerca in Biologia e fisiopatologia cardiaca, vascolare, renale e metabolica.

Subjects of the interview: Innate immunity and the kidney, cell senescence and apoptosis, diabetic nephropathy, physiology of glucose reabsorption in the proximal tubule, implications of inhibition of glucose reabsorption in the proximal tubule in diabetic nephropathy.

RESEARCH PROGRAM NO. 11

The assessment criteria for the qualifications and the interview will be affixed on 5.7.2017 at **9.00** in Clinica Malattie Infettive (DISSAL), IRRCS AOU San Martino-IST, Padiglione di Patologie Complesse, piano meno uno, 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 **5.7.2017** at **12.00** in Clinica Malattie Infettive (DISSAL), IRRCS AOU San Martino-IST, Padiglione di Patologie Complesse, piano meno uno, Largo Rosanna Benzi 10, Genova.

The interview will be held on **5.7.2017** at **13.00** in Clinica Malattie Infettive (DISSAL), IRRCS AOU San Martino-IST, Padiglione di Patologie Complesse, piano meno uno, 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. Claudio VISCOLI

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 19.367.00

Title: HCV chronic hepatitis: clinical outcome of new treatment strategies and pharacovigilance.

Description: After the arrival of boceprevir and telaprevir, several direct active agents (DAA) active against HCV have become available: sofosbuvir, sofosbuvir/ledipasvir, ombitasvir/paritaprevir/ritonavir, dasabuvir and daclatasvir. Other DAA like grazoprevir, elbitasvir, velpatasvir will arrive soon.
AIFA decided to reimburse treatment to patients at high risk for complication of HCV infection first. In the next future, the Italian Health System will dispense DAA also for people with mild HCV disease. The aim of the project is to evaluate the efficacy and safety profile of DAA in a real-life cohort. All the activities will be ruled out at the Infectious Diseases Clinic of the Department of Health Sciences (DISSAL), University of Genoa, and IRCCS San Martino-IST

Scientific disciplinary sector: MED/17 INFECTIOUS DISEASES

Place: Dipartimento di scienze della salute (DISSAL)

Required degree:
Specializzazione in Patologia Clinica con adeguata esperienza di ricerca e raccolta dati nel campo dell'epatite C *.

Subjects of the interview: HCV infection: risk factors, clinical features, diagnosis and therapeutic approach. Informatic knowledge: operative systems useful for collecting data (Microsoft Windows XP and others), data analysis tools like Microsoft Word, Excel and Power Point; medical research through pubmed and other searchengines; ability to use Medinfo, platform created by DIBRIS for collecting data on patient with HIV and viral hepatitis that received approval of the ethic committee of the Ligurian Region and is currently used in Liguria.

** Required degree modified with Chancellor Decree n. 1779 dated 22/5/2017*

RESEARCH PROGRAM NO. 12

The assessment criteria for the qualifications and the interview will be affixed on 5.7.2017 at **9.30** in IRCCS AOU San Martino-IST, Ambulatorio Neurofisiologia, Padiglione Specialità Fondi Ponente, Largo 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 **5.7.2017** at **12.30** in IRCCS AOU San Martino-IST, Ambulatorio Neurofisiologia, Padiglione Specialità Fondi Ponente, Largo Benzi 10, Genova.

The interview will be held on **5.7.2017** at **15.30** in IRCCS AOU San Martino-IST, Ambulatorio Neurofisiologia, Padiglione Specialità Fondi Ponente, Largo 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. Flavio Mariano NOBILI

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 19.367.00

Title: Predictors of cognitive decline in patients with a diagnosis of de novo Parkinson's disease: clinical use of biomarkers.

Description: Prospective study in a group of drug-naïve patients diagnosed with de novo Parkinson's disease aimed at defining the best predictors of cognitive worsening among the following: clinical features, neuropsychological features, resting EEG and dopamine transporter (DAT) imaging.
After baseline evaluations, the patients (grouped into clinical subtypes, i.e., mainly motor, diffuse/malignant and intermediate) will be followed-up with clinical and neuropsychological evaluations, in order to verify which among baseline investigations can predict with the best accuracy the cognitive outcome.

Scientific disciplinary sector: MED/26 NEUROLOGY

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI)

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: Biomarkers of cognitive decline and movement disorders, with particular attention to Parkinson's disease and parkinsonisms. REM Behaviour Disorders: how to diagnose them with certainty. Clinical and neuropsychological aspects of cognitive decline in Parkinson's disease. Quantitative EEG features in cognitive decline and the use of neuroimaging in Parkinson's disease, with regard to the cerebral FDG-PET data and DAT-SPECT.

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

RESEARCH PROGRAM NO. 13

The assessment criteria for the qualifications and the interview will be affixed on **30.6.2017** at **9.00** in DINOGMI, 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 **30.6.2017** at **12.00** in DINOGMI, Clinica Neurologica, Largo Paolo Daneo 3, Genova.

The interview will be held on **30.6.2017** at **12.30** in DINOGMI, 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: € 23.250,00

Title: Study and realization of a portable prototype of a microwave imaging device for the differential diagnosis of ischemic and hemorrhagic stroke.

Description: Stroke can be due to an occlusion (ischemic stroke) or to a rupture of an artery (hemorrhagic stroke),The differential diagnosis is carried out usually by TC The present project has the aim to construct a prototype of a microwave device, that is portable and can make the differential diagnosis between ischemic and hemorrhagic stroke. The device uses microwave-based techniques and one or more receiving antennas. The project is carried out with the electrical department of the University of Genova (DITEN). Patients with stroke will be evaluated with conventional TC and with a microwave imaging device.

Scientific disciplinary sector: MED/26 NEUROLOGY

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI)

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:
Clinical aspects and physiopathology of stroke.

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

RESEARCH PROGRAM NO. 14

The assessment criteria for the qualifications and the interview will be affixed on **30.6.2017** at **10.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI), Clinica Neurologica, via 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 **30.6.2017** at **13.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI), Clinica Neurologica, via Largo Paolo Daneo 3, Genova.

The interview will be held on **30.6.2017** at **13.30** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI), Clinica Neurologica, via 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: Spinal cord metabolism in Amyotrophic Lateral Sclerosis: a FDG PET-CT study.

Description: Aim of the study is to develop a software able to evaluate spinal cord (SC) morphology and function based on data obtained from FDG PET co-registerd with CT in patients affected by Amyotrophic Lateral Sclerosis (ALS) and non neurological controls. Based on literature data suggesting functional differences in brain of ALS patients, we hypothesise that glucose metabolism might differentiate different tracts of SC in ALS. A computational tool will be developed to identify spinal canal and SC and its structure, volume, density and metabolism, their possible differences between patient and controls and verify any correlations with clinical data and disease evolution.

Scientific disciplinary sector: MED/26 NEUROLOGY

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI).

Required degree:
Specializzazione in Medicina Fisica e Riabilitativa, con adeguata produzione scientifica derivante da attività di ricerca nel settore delle malattie neuromuscolari.

Subjects of the interview:
Neurodegenerative diseases: clinic and etiopathogenesis. Neuroradiology and elements of nuclear medicine in Amyotrophic Lateral Sclerosis.

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

RESEARCH PROGRAM NO. 15

The assessment criteria for the qualifications and the interview will be affixed on **5.7.2017** at **10.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI), 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 **5.7.2017** at **13.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI), Largo Paolo Daneo 3, Genova.

The interview will be held on **5.7.2017** at **16.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI), 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. Antonio UCCELLI

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 19.367.00

Title: Exosome-shuttled miRNAs as mediators of the therapeutic effect of mesenchymal stem cells in ALS.

Description: ALS is characterized by neuroinflammation in which activated glial cells play a prominent role. We postulate that MSC ameliorate clinical murine ALS in part via modulation of glial phenotype through specific RNAs shuttled by exosomes present in their secretome.
We want to confirm in vitro and in vivo that MSC-derived exosomes can modulate neuroinflammation at the level of both microglia and astrocytes. Thus, we expect to identify the miRNAs possibly involved in the modulation of astrocyte phenotype and neurotoxicity that are shuttled by MSC-derived exosomes, to determine the inflammatory pathways targeted by miRNAs and to verify in vivo the modulatory ability of MSC-derived exosomes on SOD1G93A astrocytes.

Scientific disciplinary sector: MED/26 NEUROLOGY

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI).

Required degree:
Laurea Magistrale della classe LM-6 Biologia.

Subjects of the interview:
Neuroinflammation, neurodegenerative diseases, microRNAs biology, Mesenchymal stem cells.

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

RESEARCH PROGRAM NO. 16

The assessment criteria for the qualifications and the interview will be affixed on **30.6.2017** at **9.30** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI), 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 **30.6.2017** at **12.30** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI), Largo Paolo Daneo 3, Genova.

The interview will be held on **30.6.2017** at **13.30** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI), 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: Guillain-Barrè Syndrome in province of La Spezia: a prospective epidemiological and prognostic study

Description: The Guillain-Barrè Syndrome (GBS) is a severe acute polyneuropathy characterized by strength deficit at 4 limbs up to tetraplegia and respiratory failure. Mortality is 5% and the inability to walk to 6 months is 20%. This is a rare disease (0.8-1.89/100.000/year). Our preliminary data suggest that the annual incidence in La Spezia area is significantly higher than the national and world average.
The study, observational, prospective, expects to demonstrate the increased incidence of GBS in the La Spezia area, seek to identify its cause, improve the quality of care and rehabilitation treatment in order to contain disabling outcomes and positively act on the socio-health impact of the disease.

Scientific disciplinary sector: MED/26 NEUROLOGY

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI).

Required degree: Dottorato di ricerca in Neuroscienze Applicate.

Subjects of the interview:
Clinical assessment scales at the time of admission: MRC sumscore, GBS Disability Scale
Prognostic scale: mEGOS, EGRIS.
Pre and post therapy outcome measures.
Upper limbs: Sollerman scale, 9 hole-peg-test, hand test System, MRC sumscore, dynamometer
Lower limbs: MRC sumscore, BERG scale, 6 minute walking test, 10 meters walking test.
Self-reported tests: Walk-12, Disability of the Arm, Shoulder and Hand (DASH), manual ability measure (MAM-64), SF-36.

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 **27.9.2017** at **8.00** in Sala Studio Clinica Oculistica, piano 5, V.le Benedetto XV, 5, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **27.9.2017** at **11.00** in Sala Studio Clinica Oculistica, piano 5, V.le Benedetto XV, 5, Genova.

The interview will be held on **27.9.2017** at **13.00** in Sala Studio Clinica Oculistica, piano 5, V.le Benedetto XV, 5, 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. Carlo Enrico TRAVERSO

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 19.367.00

Title: Evaluation of corneal anatomical and functional changes by multimodal imaging techniques, in patients affected by corneal ectasia, treated with Corneal Collagen Cross-Linking.

Description: Corneal Cross-linking is a para-surgical therapy recently introduced, for treatment of corneal ectasia. Corneal thinning and increase of corneal curvature typically characterize these changes, lead to elevated levels of myopia and astigmatism. Such method increases molecular bridges between collagen fibers of the stroma.
Corneal cross-linking treatment provides for the instillation of Riboflavin 0.1%. After impregnation with riboflavin, the cornea is irradiated with UV-A light.
The aim of this project is to analyze the anatomical and functional corneal changes through various anterior segment imaging techniques: in vivo-confocal microscopy, endothelial specular microscopy, Anterior-segment optical coherence tomography and corneal topography.

Scientific disciplinary sector: MED/30 EYE DISEASES

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI).

Required degree:
Laurea Specialistica della classe SNT/02/S Scienze delle Professioni Sanitarie della Riabilitazione.
Laurea Magistrale della classe LM/SNT2 Scienze delle Professioni Sanitarie della Riabilitazione.

Subjects of the interview:
Analysis of anatomical and functional changes of the cornea using various imaging of the anterior segment techniques: confocal microscopy, endothelial specular microscopy, optical coherence tomography (OCT) of the anterior segment and corneal topography.

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

RESEARCH PROGRAM NO. 18

The assessment criteria for the qualifications and the interview will be affixed on **19.7.2017** at **8.00** in Sala Studio Clinica Oculistica, piano 5, V.le Benedetto XV 5, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **19.7.2017** at **11.00** in Sala Studio Clinica Oculistica, piano 5, V.le Benedetto XV 5, Genova.

The interview will be held on **19.7.2017** at **13.00** in Sala Studio Clinica Oculistica, piano 5, V.le Benedetto XV 5, 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. Carlo Enrico TRAVERSO

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 19.367.00

Title: Diagnosis and treatment of strabismus and abnormal oculomotor

Description: Strabismus is a disorder that affects the ocular alignment adult patients and pediatric. The most important consequence of a squint child untreated is the development of amblyopia which is a condition characterized by a reduction in non-correctable visual acuity in one eye otherwise healthy, determined visual experience during the critical period of neurological development, in can adversely affect the proper development of the visual pathway that carries the information to cortical areas. Early diagnosis and treatment can significantly improve the visual prognosis and thus the psychosocial well-being. The project aims to investigate the diagnostic aspects of all forms of strabismus with particular interest both medical and surgical therapeutic aspect.

Scientific disciplinary sector: MED/30 EYE DISEASES

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOGMI).

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:
Ocular motility disorders and ability to perform the instrumental diagnostic procedures.

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

RESEARCH PROGRAM NO. 19

The assessment criteria for the qualifications and the interview will be affixed on **6.7.2017** at **9.00** in Istituto Giannina Gaslini, Via G. Gaslini 5, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **6.7.2017** at **12.00** in Istituto Giannina Gaslini, Via G. Gaslini 5, Genova.

The interview will be held on **6.7.2017** at **15.00** in Istituto Giannina Gaslini, Via G. Gaslini 5, 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 RAVELLI

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 19.367.00

Title: Development and validation of the systemic JADAS (sJADAS)

Description: The JADAS is a composite disease activity index that is made up by pooling four individual measures: 1) physician's global assessment of disease activity; 2) parent's/patient's assessment of child's well-being; 3) count of joints with active arthritis; 4) erythrocyte sedimentation rate. The purpose of the present project is to develop and validate a JADAS version for use in systemic JIA. It is proposed to name this new tool "systemic JADAS" (sJADAS). The design of the study is cross-sectional and prospective. Participating centers are asked to enroll all consecutive patients seen after the study start who have new-onset "definite" systemic JIA (i.e. a disease that meets the ILAR criteria for systemic JIA) or "probable"/"possible" systemic JIA (i.e. a febrile disease that presents with the classical extra-articular features of systemic JIA, but lacks overt arthritis).

Scientific disciplinary sector: MED/38 GENERAL AND SUBSPECIALTY PAEDIATRICS

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

Required degree:
Specializzazione in Pediatria, con adeguata produzione scientifica derivante da studio della valutazione clinica standardizzata e dell'approccio terapeutico nella malattie reumatiche.

Subjects of the interview:
Diagnosis and therapy of systemic juvenile idiopathic arthritis.

SCIENTIFIC DISCIPLINARY AREA: CIVIL ENGINEERING AND ARCHITECTURE

RESEARCH PROGRAM NO. 20

Scientific coordinator: Prof. Roberta MASSABO'

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

Title: Mechanics-based modeling of composites in the design for mitigation of extreme loadings and environments.

Description: The project deals with the mechanics-based design of composite structures for the mitigation of the effects of extreme loadings and environments. The main objectives are: formulate innovative techniques to study fracture and delamination in layered structures for naval applications; explore innovative design concepts for the mitigation of the effects of blast, impact and vibration through an investigation of the relationships between the characteristics of wave propagation and damage resistance and tolerance in systems with special material architectures.

Scientific disciplinary sector: ICAR/08 STRUCTURAL MECHANICS

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

Required degree:
Laurea V.O. in Ingegneria civile o Ingegneria edile o Ingegneria meccanica o Ingegneria aerospaziale.
Laurea Specialistica delle classi: 25/S Ingegneria aerospaziale e astronautica, 28/S Ingegneria civile, 36/S Ingegneria meccanica.
Laurea Magistrale delle classi: LM-20 Ingegneria aerospaziale e astronautica, LM-23 Ingegneria civile, Ingegneria meccanica LM-24 Ingegneria dei sistemi edilizi, LM-26, Ingegneria della sicurezza, LM-33, Ingegneria meccanica.

Subjects of the interview: Scientific discussion on prior research experiences of the candidate and on his/her curriculum vitae, qualifications and publications. Verification of basic knowledge in: structural and continuum mechanics, fracture mechanics, composite materials, structural dynamics, matrix methods in elasticity, analytical and numerical solution methods.

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

RESEARCH PROGRAM NO. 21

The assessment criteria for the qualifications and the interview will be affixed on **3.7.2017** at **10.00** 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 **3.7.2017** at **13.00** Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), via Montallegro 1, Genova.

The interview will be held on **3.7.2017** at **14.30** 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. Chiara CALDERINI

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

Title: Structural response of historic masonry buildings to water-soil interaction related threats: numerical/experimental analyses and definition of damage indices.

Description: The research will mainly focus on the study of the structural response of monumental buildings subjected to water-soil interaction related threats and on the definition of mechanical damage indices and thresholds via the use of numerical and experimental analyses. Damage indices and thresholds will be defined with reference to suitable limit states, taking into account safety, conservation and economic issues, and will support the design of optimized structural and geotechnical monitoring strategies. The research will be mainly oriented to vaulted and arch monumental structures, for which very little research has been done with reference to water-soil interaction related threats. The research will be carried out within the project PRIN 2015 “Protecting the Cultural Heritage from water-soil interaction related threats” (national coordinator: prof. R. Landolfo).

Scientific disciplinary sector: ICAR/09 STRUCTURAL ENGINEERING

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

Required degree:
Laurea Magistrale delle classi: LM-23 Ingegneria civile; LM-4 Architettura e ingegneria edile-architettura.

Subjects of the interview: Structural mechanics, Modelling and analysis of historic masonry structures, Protection of monumental building from natural hazards.

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

SCIENTIFIC DISCIPLINARY AREA: INDUSTRIAL AND INFORMATION ENGINEERING

RESEARCH PROGRAM NO. 22

The assessment criteria for the qualifications and the interview will be affixed on **30.6.2017** at **8.45** in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), via Montallegro 1, Scuola Politecnica, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **30.6.2017** at **11.45** in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), via Montallegro 1, Scuola Politecnica, Genova.

The interview will be held on **30.6.2017** at **12.00** in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), via Montallegro 1, Scuola Politecnica, 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. Paola GUALENI

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

Title: Innovative design methodology for integration of an energy distributed system on board passenger ships.

Description: The aim of the activity is to develop an innovative design for a cruise ship, with specific attention to the energy issues on board, looking for a superior performance in terms of safety and energy efficiency. The target of the project is to integrate the traditional concept of power generation with the use of power generation units of smaller size, properly distributed on board the ship. Number, typology, size and integration on board of the generation units will be defined in relation with aspects of zonal independence, electrical load, weights, volumes, auxiliaries, with the minimum possible impact on commercially valuable space. In this perspective, fuel cells technology will be particularly taken into account. The critical issues in relation with the present safety rules will be addressed as a fundamental aspect.

Scientific disciplinary sector: ING-IND/01 ARCHITETTURA NAVALE

Place: Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN)

Required degree:
Laurea V.O. in Ingegneria Navale
Laurea Specialistica della classe 37/S Ingegneria Navale
Laurea Magistrale della classe LM-34 Ingegneria Navale

Subjects of the interview: Passenger ship design, safety rules in the maritime field, ship energy efficiency.

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 **15.9.2017** at **9.00** in Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti (DIME), sez. 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 **15.9.2017** at **12.00** in Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti (DIME), sez. MASET, Via Montallegro 1, Genova.

The interview will be held on **15.9.2017** at **15.30** in Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti (DIME), sez. 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.

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. Alessandro Sorce on the phone number +39 380 4355212 or via the email address: alessandro.sorce@unige.it.

Scientific coordinator: Prof. Alessandro SORCE

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

Title: Development of an expert system for the diagnostic pattern classification to identify fault in combined cycle

Description: In large power plants, especially for combined cycles, software for performance monitoring and detection of deviations from the expected values are often employed. Measures relating systems (Data Driven) have been widely used to define numerical comparison models (Neural Network, Support Vector Machine, etc.). The diagnostic phase itself (fault detection and identification), which analyses such deviations, is mainly based on the threshold and rules usage (rule based). This activity aims to develop an advanced methodology (expert system) for analysing operational deviations, the diagnostic phase, by introducing supervised pattern classification techniques that combine the available experimental data and the previous fault recognition experience accrued by industry experts.

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 Magistrale della classe LM-35 Ingegneria per l'ambiente e il territorio.

Subjects of the interview: Gas Turbine Combined Cycle power plant, Data Driven Diagnostic, Pattern Classification.

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

RESEARCH PROGRAM NO. 24

The assessment criteria for the qualifications and the interview will be affixed on **30.6.2017** at **9.00** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), via all'Opera Pia 15/A, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **30.6.2017** at **12.00** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), via all'Opera Pia 15/A, Genova.

The interview will be held on **30.6.2017** at **12.30** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), via all'Opera Pia 15/A, 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. Elisabetta ARATO

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

Title: Thermochemical treatment of exhausted oils and sludge for obtaining fuel oils on board

Description: The study focuses on the issues related to the energy valorisation of liquid waste on board in the context of a project funded by CNR, of interest Fincantieri (call of Italian Ministry of Transport).
In the framework of the present activity, mainly exhausted cooking oils, lubricated oils and oils recovered from the sludge will be analyzed to be treated by a catalytic decarboxylation or pyrolysis process, avoiding the landing and allowing the production of an oil with suitable characteristics to be mixed with the fuel used onboard.
The study approach will consist in the parallel process of experimental activities and modeling activities in a mutual relationship guidance and verification.

Scientific disciplinary sector: ING-IND/24 FUNDAMENTALS OF CHEMICAL ENGINEERING

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

Required degree:
Dottorato di ricerca in Fluidodinamica e Processi dell'Ingegneria Ambientale.

Subjects of the interview: Process analysis and simulation, chemical thermodynamics and kinetics, chemical reactor theory.

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 **30.6.2017** at **9.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), via Opera Pia 11a, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **30.6.2017** at **13.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), via Opera Pia 11a, Genova.

The interview will be held on **30.6.2017** at **13.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), via Opera Pia 11a, 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 ONETO

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

Title: Study and application of Big Data Analytics techniques to touristic data.

Description: The objective of the study is the analysis of touristic data with Big Data Analytics and Data Mining tools and techniques.
In particular, the objectives are to study a Big Data Analytics platform and to identify the best methodologies for building descriptive and predictive models based on state-of-the-art statistical modelling techniques.

Scientific disciplinary sector: ING-INF/05 INFORMATION PROCESSING SYSTEMS

Place: Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS).

Required degree:
Laurea Magistrale delle classi: LM-29 Ingegneria elettronica; LM-32 Ingegneria informatica.

Subjects of the interview: Computing and storage architectures for Big Data Analytics: Hadoop/Spark, NoSQL. Modelling tools, languages and techniques for Big Data Analytics: MLlib, R, Scala.

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 **29.6.2017** at **12.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Viale Causa 13, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **30.6.2017** at **11.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Viale Causa 13, Genova.

The interview will be held on **30.6.2017** at **11.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Viale Causa 13, 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. Armando TACCHELLA

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

Title: Methodologies for analyzing the resiliency in control systems for critical infrastructure.

Description: The goal of the research is to quantify the resiliency in control systems for critical infrastructure when they are under cyberattack. The working hypothesis is that the system is attacked by changing (1) set points, (2) regulation parameters and/or (3) sensor feedback. The main objective is to define methodologies to quantify the ability of the system to resume its normal working conditions autonomously. Such methodologies foresee a combination of analytical, simulation and automated verification techniques based on plant models. Systems whose incorrect behavior has important social or economic consequences are considered, e.g., water-treatment plants and energy production and distribution systems.

Scientific disciplinary sector: ING-INF/05 INFORMATION PROCESSING SYSTEMS

Place: Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS).

Required degree:
Laurea Magistrale delle classi: LM-21 Ingegneria biomedica; LM-25 Ingegneria dell'automazione; LM-27 Ingegneria delle telecomunicazioni; LM-28 Ingegneria elettrica; LM-29 Ingegneria elettronica; LM-31 Ingegneria Gestionale; LM-32 Ingegneria informatica.

Subjects of the interview: Modeling and management of industrial systems, industrial automation systems, cybersecurity in the context of industrial automation.

SCIENTIFIC DISCIPLINARY AREA: ANTIQUITIES, PHILOLOGY, LITERARY STUDIES, ART HISTORY

RESEARCH PROGRAM NO. 27

The assessment criteria for the qualifications and the interview will be affixed on **5.7.2017** at **9:00** in Dipartimento di Romanistica, Antichistica, Arti e Spettacolo (DIRAAS), Via Balbi 2, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **5.7.2017** at **13:00** in Dipartimento di Romanistica, Antichistica, Arti e Spettacolo (DIRAAS), Via Balbi 2, Genova.

The interview will be held on **5.7.2017** at **16:00** in Dipartimento di Romanistica, Antichistica, Arti e Spettacolo (DIRAAS), Via Balbi 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. Giovanni MENNELLA

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

Title: The epigraphical forgeries of Giuseppe Francesco Meyranesio.

Description: The papery epigraphic forgeries of Giuseppe Francesco Meyranesio (1729-1763) occupy large space in the chapter of Ligurian and Piedmontese "falsae" in the fifth volume of the CIL. With multifaceted interests and elusive personality, the scholar enjoyed underserved reputation among his contemporaries and he was able to spread texts which he invented himself in their circle. Studies on him are not lacking (Muratori and Promis 1867-1868, Ferrua 1948, Giaccaria 1994, Roda 1996), but they privilege the consequences of the forger activities and not the “modus operandi”, and they have favored a revision in his favor (Fossati and Verdamy 2014). The research aims to census of his fakes, recognized as such or deduced; to analyze the inconsistencies; to identify the archetypes; to rehabilitate the texts perhaps genuine, but misunderstood; to reconstruct the causes and aims of Meyranesio’s action in the political and cultural climate of the time.

Scientific disciplinary sector: L-ANT/03 ROMAN HISTORY

Place: Dipartimento di Romanistica, Antichistica, Arti e Spettacolo (DIRAAS).

Required degree: Dottorato di ricerca in Storia Antica.

Subjects of the interview:
- The database EDR and the database EDF: analogies and differences.
- Giuseppe Francesco Meyranesio’s controversial figure and his production of papery forgeries.

RESEARCH PROGRAM NO. 28

The assessment criteria for the qualifications and the interview will be affixed on **4.7.2017** at **11.00** in Dipartimento di Antichità, Filosofia e Storia (DAFIST), Biblioteca di Archeologia, Via Balbi 4, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **4.7.2017** at **14:00** in Dipartimento di Antichità, Filosofia e Storia (DAFIST), Biblioteca di Archeologia, Via Balbi 4, Genova.

The interview will be held on **4.7.2017** at **14:30** in Dipartimento di Antichità, Filosofia e Storia (DAFIST), Biblioteca di Archeologia, Via Balbi 4, 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. Silvia PALLECCHI

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

Title: Typologies and arrangement of VII-V B.C. pre-roman potteries, in Parco Pinto area at Policastro Bussentino (SA) and neighboring territories.

Description: Policastro Bussentino (SA) is a coastline settlement best placed to control one of the most important commercial hub between the Strait of Messina, Gulf of Naples, and Vallo di Diano area. It was operative before the foundations of roman colony of Buxentum as well, during 194 B.C., as the findings recovered from the city demonstrate. The potteries attest the vitality of the site with productions that testify its tight bond with sub-regional districts and the neighboring cities. A revision of typologies of pottery manufactures would better define the phenomena of goods production and trades in a very articulated district and poorly characterized from a point of view of commercial and cultural exchanges.

Scientific disciplinary sector: L-ANT/10 METHODS OF ARCHAEOLOGICAL RESEARCH

Place: Dipartimento di Antichità, Filosofia e Storia (DAFIST).

Required degree:
Laurea V.O. in Lettere
Laurea Specialistica della classe 2/S Archeologia
Laurea Magistrale della classe LM-2 Archeologia

Subjects of the interview:
- Policastro Bussentino in relation to coast-line sites of Gulf of Policastro during the Late Arcaic age: the manufacture of potteries in sub-geometric Oenotrian style, with a particular attention to Gulf of Policastro cost-line sites and particularly to the Parco Pinto area (Policastro Bussentino).
- Policastro Bussentino: local productions and imports between VII and V B.C.
- The Bussentino district: aspects of continuity and transformation of the distribution and exchange system of pottery manufactures.

RESEARCH PROGRAM NO. 29

The assessment criteria for the qualifications and the interview will be affixed on **5.7.2017** at **18:00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Viale Francesco Causa 13, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **6.7.2017** at **10:00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Viale Francesco Causa 13, Genova.

The interview will be held on **6.7.2017** at **12:00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Viale Francesco Causa 13, 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. Gualtiero Volpe on the phone number +39 320 4218858 or via the email address: gualtiero.volpe@unige.it.

Scientific coordinator: Prof. Gualtiero VOLPE

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

Title: Narration paradigms and metaphors for the development of multisensory interfaces to present feedback in computer applications for education.

Description: Research will concern the study of narrative paradigms and metaphors for the development of multisensory interfaces to present feedback in computer applications for education. In more details, the work will consist of the investigation and the comparison of narration techniques, with a particular reference to narrative structures for the new media, aiming at identifying the most effective metaphors for communicating to the student some automatically computed measures, related to her movement and posture, by means of different sensory channels. Specifically, the activity may concern teaching and learning to play a music instrument, with a special focus on the violin. Research will be carried out at the Casa Paganini – InfoMus research center of DIBRIS – University of Genova.

Scientific disciplinary sector: L-FIL-LET/14 LITERARY CRITICISM AND COMPARATIVE LITERATURE

Place: Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS).

Required degree: Dottorato di ricerca in Letterature Comparate.

Subjects of the interview: Narration paradigms, narrative structures for the new media, multimodal interactive systems and interfaces for education with a particular reference to music and performing arts, generation of multisensory feedback in a narrative context.

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

SCIENTIFIC DISCIPLINARY AREA: HISTORY, PHILOSOPHY, PEDAGOGY AND PSYCHOLOGY

RESEARCH PROGRAM NO. 30

The assessment criteria for the qualifications and the interview will be affixed on **29.6.2017** at **10:00** in Dipartimento di Scienze della Formazione (DISFOR), Corso A. Podestà 2, IV piano stanza 4A1, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **29.6.2017** at **16:00** in Dipartimento di Scienze della Formazione (DISFOR), Corso A. Podestà 2, IV piano stanza 4A1, Genova.

The interview will be held on **30.6.2017** at **10:00** in Dipartimento di Scienze della Formazione (DISFOR), Corso A. Podestà 2, IV piano stanza 4A1, 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. Maria Carmen USAI

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

Title: The resolution of mathematical problems in primary school.

Description: This study aims to analyze the cognitive factors involved in arithmetic word problem solving in primary school children. According to existing studies, when the accuracy of the final solution is considered as the outcome variable, working memory appears to be the strongest predictor. Nevertheless, when the different phases of problem solving are considered, contradictory results emerge. The candidate will be involved in the data collection and in the data analysis phases; moreover, he/she will be involved in the article preparation.

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:
- Development of control processes
- Methods to assess executive function in children
- Mathematical learning predictors
- Relationship between executive function and mathematical learning.

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

SCIENTIFIC DISCIPLINARY AREA: ECONOMICS AND STATISTICS

RESEARCH PROGRAM NO. 31

The assessment criteria for the qualifications and the interview will be affixed on **4.7.2017** at **9:00** in Dipartimento di Economia (DIEC), Via Vivaldi 5, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **4.7.2017** at **12:00** in Dipartimento di Economia (DIEC), Via Vivaldi 5, Genova.

The interview will be held on **4.7.2017** at **12:30** in Dipartimento di Economia (DIEC), Via Vivaldi 5, 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. Mara ZUCCARDI MERLI

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

Title: The reform of the government models of social-health services: the process management in the integration of social-health and health functions

Description: In recent years, the regional healthcare systems have been the subject of many regulatory interventions, to reorganize their government models. Reforms have been introduced in Lombardy (LR 23/15), Tuscany (LR 84/15), Veneto (LR 19/16) and Liguria (LR 17/16, LR 27/16 and DGR 7/17). The guiding principle of these reforms is the pursuit of higher levels of efficiency and appropriateness with reference to the health needs of the populations.
The project aims to develop a comparative analysis of the government models deriving from these reforms, also with reference to similar international experiences. The research will identify their main innovative traits, with reference to the integration of social-health and health services, in the perspective of clinical pathways management, evaluating the impact on the quality, equity and sustainability of the system. The results will be disseminated through e-learning activities too.

Scientific disciplinary sector: SECS-P/07 BUSINESS ADMINISTRATION AND MANAGEMENT

Place: Dipartimento di Economia (DIEC).

Required degree:
Laurea Magistrale della classe LM-77 Scienze economico-aziendali.

Subjects of the interview: Healthcare government models; process management in healthcare; integration of social-health and health services; qualitative and quantitative research methodologies applied to healthcare services; previous research experience in healthcare.

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

SCIENTIFIC DISCIPLINARY AREA: POLITICAL AND SOCIAL SCIENCES

RESEARCH PROGRAM NO. 32

The assessment criteria for the qualifications and the interview will be affixed on **29.6.2017** at **11:00** in Dipartimento di Antichità, Filosofia, Storia - DAFIST, Via Balbi 6, bacheca all'ultimo piano, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **29.6.2017** at **14:00** in Dipartimento di Antichità, Filosofia, Storia - DAFIST, Via Balbi 6, bacheca all'ultimo piano, Genova.

The interview will be held on **29.6.2017** at **14:30** in il Dipartimento di Antichità, Filosofia, Storia - DAFIST, Via Balbi 6, ultimo piano, 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. Chiara VANGELISTA

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

Title: Photography as Italian Fascist propaganda tool in Brazil (1922-1945).

Description: Although photography was one of the most efficient means for building identity and consensus of the Fascist regime, at present there is no research devoted to its role in the fascist propaganda in Brazil. However, it seems clear the presence of a fascist foreign policy of the image, which conveyed a well-defined idea of progress.
The issues to be addressed within this study are: a.) the scale and the forms of dissemination in Brazil of photographic images inherent to fascist propaganda; b.) the visual forging of some fascist key words; c.) the receipt of these images in Brazil, within the so-called Italian communities and their relations with the new political and social context.

Scientific disciplinary sector: SPS/05 AMERICAN HISTORY AND INSTITUTIONS

Place: Dipartimento di Antichità, Filosofia, Storia (DAFIST).

Required degree: Dottorato di ricerca in Studi Americani.

Subjects of the interview: Migrations between Europe and Latin America on the first half of Twentieth Century; The ways as Fascism and Nazism spread of in Brazil; Photography as a historical source; Photography and political propaganda.

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