D.R. n. 672 – 06.10.2020

THE NOTICE OF COMPETITION, FOR THE CONFERRAL OF NO. 22 RESEARCH GRANTS AT THE UNIVERSITY OF CAMPANIA “LUIGI VANVITELLI” financed with Department funds

Art. 1
General provisions.
A public selection is called, based on qualifications and tests, for the awarding of grants for carrying out research activities (hereinafter referred to as research grants) at the University of Campania “Luigi Vanvitelli”, as per Annex A, which is an integral part of this decree.
The total duration of the relationships established pursuant to this notice of competition, including any renewals, conferred by different Bodies/Universities, may not in any case exceed six years, with the exception of the period in which the grant is used in conjunction with the PhD, up to the maximum legal duration of the relevant Course.
The renewal, upon request of the scientific lead (tutor), is subject to both the positive resolution of the Department Council concerned and the actual availability of funds.
This notice will be posted on the digital register of the University of Campania “Luigi Vanvitelli” and will be advertised by publication on the University's website: www.unicampania.it and the website of the MIUR.
The above mentioned posting has the value of notification for all legal purposes. Therefore, the candidates who have not been notified of their exclusion from the competition must undertake to be available at all times during the course of the competition on the day and at the time set out in Annex A, and must bring a valid identification document.
Candidates who are admitted to the interview will be contacted by the Selection Committee, on the indicated date and time, via Skype videoconferencing (or similar channels).

Art. 2
Economic, tax and social security treatment.
The gross amount of the research grant referred to in Annex A shall be paid in monthly instalments during the research activity and shall be net of charges borne by the granting administration. The social security deductions to be paid by the research fellow and the insurance premium for coverage against accidents and civil liability shall be applied to this amount.
The following provisions shall be applied to the grant: Article 4 of Law no. 476 of 13 August 1984, as well as, concerning social security matters, article 2 par. et seq. of Law no. 335 of 8 August 1995, as amended, concerning compulsory abstention due to maternity leave, decree of the Minister of Labour and Social Security of 12 July 2007, published in the Official Journal no. 247 of 23 October 2007, and, concerning sick leave, article 1, par. 788, of Law no. 296 of 27 December 2006, as amended.

Art. 3
Requirements for admission to the selection
Italian or foreign citizens may take part in the public selection referred to in this notice of competition, without any age or citizenship restrictions, if they are in possession of:
   a) Master's/specialist degree or old-system degree and appropriate professional scientific curriculum;
   b) Equivalent qualification obtained abroad and appropriate professional scientific curriculum.
These admission requirements will be verified by the Examination Commission.
Those who have a degree of kinship or affinity, up to and including the fourth degree, with a professor belonging to the structure where the grant is activated, or with the Rector, the General Manager or a member of the Board of Directors of the University, cannot participate in the selections.

The requirements must be met, under penalty of exclusion, on the date of expiry of the deadline for submission of the application for selection.

If the candidate is in possession of the qualification obtained abroad and the same has not been recognised as equivalent on the basis of international agreements or in the manner referred to in article 2 of Law no. 148 of 11 July 2002, the Examination Commission referred to in article 6 shall assess, solely for the purposes of participation in the public selection procedure, the conformity of the same with a similar qualification issued by Italian universities; to this end, the qualification must be translated, certified and provided with a declaration of value by the competent Italian diplomatic representations abroad. The aforementioned documentation must be annexed to the application form, in its absence the participant will be excluded.

The grants cannot be given to employees of Universities and Public Research and Experimentation Institutions and Bodies, the National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA) or the Italian Space Agency (ASI), as well as institutions whose diploma of scientific specialisation has been recognised as equivalent to the title of PhD pursuant to Article 74, paragraph 4, of Presidential Decree no. 382 of 11 July 1980.

The candidates are admitted with reservation to the selective procedure, the Administration may, at any time, with a justified decision, exclude them from the selection procedure for failure to meet the prescribed requirements.

Art. 4
Submission of applications

The application form, written on plain paper, must be addressed to the Head of the University Service Centre for Research of the University of Campania “Luigi Vanvitelli”, c/o Registry Office, Piazza Luigi Miraglia, Palazzo Bideri – 80138 NAPLES, ITALY.

The applications must be sent, under penalty of exclusion, no later than 30 October 2020, by the following means:

- For Italian citizens, by Certified E-mail (PEC), to the following address: protocollo@pec.unicampania.it. In this regard, please note that only submissions made via personal pec and not via non-certified email or pec address of others shall be considered valid, under penalty of exclusion. It is required that the files to be annexed to the application message via PEC, are in pdf format.

- For foreign citizens, by E-mail, to the following address: ufficio.formazionericerca@unicampania.it; It is required that the files to be annexed to the application message via e-mail, are in pdf format.

The application form and the accompanying documents must also contain the applicant’s personal details (name, surname and address) and the name of the competition in which the applicant intends to take part, including the scientific-disciplinary field.

In the application, drawn up in duplicate in accordance with Annex 1, the applicant must declare, under his/her own responsibility and under penalty of exclusion:
1) surname and name, place and date of birth;
2) tax code;
3) citizenship;
4) residence;
5) the possession of the requisite provided for in art. 3 above, the indication of the university institution where it was obtained and the date of attainment;
6) not to be employed by: Universities and Public Research and Experimentation Institutions and Bodies, the National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA) or the Italian Space Agency (ASI), as well as institutions whose diploma of scientific specialisation has been recognised as equivalent to the title of PhD pursuant to Article 74, paragraph 4, of Presidential Decree no. 382 of 11 July 1980;
7) not to have a degree of kinship or affinity, up to and including the fourth degree, with a professor working in the Research Department or with the Rector, the General Manager or a member of the Board of Directors of the University;
8) the title of the research project, complete with the indication of the scientific-disciplinary field for which the applicant intends to participate, and the Scientific Lead;
9) the possible possession of qualifications of preference (PhD and/or medical specialisation accompanied by an adequate scientific production, indicating the course followed, the date of achievement, the grade and the University that issued it).

Candidates are also required to indicate the address where they wish to receive any communications relating to the competition and to undertake to communicate any changes that may occur at a later date.

Finally, the applicant may specify, in accordance with the provisions of art. 20, paragraph 2, of Law no. 104 of 5 February 1992, the necessary help in relation to his/her disability and the possible need for additional time.

In accordance with article 39 of Presidential Decree no. 445 of 28 December 2000, the signature of the application for participation in the competition is not subject to certification; the application must be personally signed by the candidate, under penalty of exclusion.

The following documentation must be annexed to the application:

- Declaration in lieu of certification, made pursuant to art. 46 of Presidential Decree no. 445 of 28 December 2000 (annex 2) concerning the possession of the qualification referred to in art. 3 with an indication of the grade obtained in the individual examinations, the grade obtained in the degree exam and the date on which the latter was taken;
- Detailed curriculum, related to scientific, academic and professional activity, under penalty of exclusion;
- Full PhD dissertation and/or abstracts, full university degree dissertation and/or abstracts;
- Possible publications, complete with identification data (authors, title, magazine/book, no. of pages, year of publication, Scopus ID and WOS);
- Any other qualification or document that the candidate deems appropriate to submit (certified copy) deemed suitable to prove his/her professional qualification, scientific production and research aptitude (specialisation diplomas, Masters, certificates of attendance at postgraduate courses, obtained in Italy or abroad, documented research activities at public and private entities with related contracts, scholarships or assignments, etc.). These documents and qualifications may also be submitted in English, French or Spanish and certified according to Italian law; they may be annexed to the application in digital format, provided they are self-certified;
- Copy of the Tax Code;
- Numbered list drawn up (in accordance with Annex 4) and signed by the applicant, indicating all documents and qualifications submitted; there must be a correspondence between the number indicated on the list and the number on the annexed document.
- Declaration of acknowledgement of the digital method for the interview/test (annex 5) complete with the required information.
For evaluation purposes, all the documents listed above must be sent together with the application for admission to the competition; in accordance with art. 19 of Presidential Decree no. 445 of 28 December 2000, the declaration of conformity to the original of copies of deeds and/or documents (annex 3), archived or issued by a Public Administration, a copy of a publication or a copy of study or service qualifications may be submitted in the ways and forms provided for in art. 47 of Presidential Decree no. 445 of 28 December 2000.

The Administration shall not be held responsible for any lack of communications due to the incorrect indication of the address by the applicant or failure or delay in communicating the change of address indicated in the application, nor for any postal or telegraphic mishandling, or in any case attributable to third parties, occurred by chance or due to force majeure.

Art. 5
Examination Commission
The Examination Commission is appointed by decree of the Rector and is composed of three members. The scientific lead of the research project is a member by right. The other two members must be selected from faculty and research staff, also from other Universities, engaged in the scientific-disciplinary field of the project or related fields.

The Examination Commission is chaired by the first level teacher, or in the absence of the latter by a second level teacher, with the longer seniority in the role.

The Examination Commission shall establish, at its first meeting, the criteria and procedures for the evaluation of qualifications within the requirements set out above.

The Commission shall draw up, based on the scores awarded, the final ranking of the public selection.

The Commission's judgement shall be final.

Art. 6
Selection
The selection will be based on qualifications and a test.

Candidates who are admitted to the interview will be contacted by the Selection Committee, on the indicated date and time, via Skype videoconferencing (or similar channels), subject to the verification of the candidate's identity carried out through the submission of the colour original of the document previously annexed to the participation application.

The Commission has a maximum of 100 points available to be awarded to each applicant, broken down as follows:

- PhD dissertation: UP TO 10 POINTS
- University Decree dissertation: UP TO 15 POINTS
- Publications: UP TO 20 POINTS
- Other academic, scientific and professional qualifications suitable for carrying out the research activity: UP TO 15 POINTS
- Interview: UP TO 40 POINTS

The result of the evaluation of the qualifications shall be posted on the Department's Registry and published on the Department's website before the interview.

Candidates who have obtained at least 30 points in the evaluation of their qualifications will be admitted to the interview.
Candidates who have obtained at least 25 points at the interview shall be considered eligible for the grant; the results of the interview shall be published on the website of the Department concerned.

For the purposes of the final ranking, the score obtained in the evaluation of the qualifications is added to the one obtained in the interview. Should there be candidates in this ranking having an equal score, the candidate with a PhD shall be preferred; in the event of further parity, the younger candidate shall be preferred.

In the event of the recipient’s renunciation or non-acceptance of the grant within the terms set forth in Art. 7 below or withdrawal by the grant holder, provided that the research is still current, the grant may be awarded to the applicant who has been found suitable according to the ranking order.

The ranking shall be approved by decree of the Rector and published on the page dedicated to Research Grants, on the University website.

The above publication is an official notification, therefore, no further individual notification will be sent to the winners.

**Art. 7**

**Conclusion of private law contract and termination of the relationship.**

The awarding of the grant shall be formalised with the conclusion of a private law contract between the University and the subject successfully part of the final ranking. The contract shall specify the duration and annual amount of the grant, the manner in which the activity is to be carried out and the number and frequency of periodic checks of the research activity carried out by the grant holder, incompatibilities, rights and obligations of the grant holder.

The winner shall be forfeited if the grant is not accepted within 30 days from the date of publication of the general merit ranking on the University website, in accordance with the preceding art. 6.

Anyone who does not start the research activity within the contractual terms, who interrupts the activity without justification and who violates the provisions of art. 5 of the Regulation for the awarding of research grants shall also be forfeited. In such cases, the relationship shall be automatically terminated.

The operating procedures for the communication and signing of the contract shall be announced at the same time as the publication of the rankings, by means of a notice on the appropriate web page.

Research grants do not give rise to entitlements with respect to university staff roles.

The states, facts and personal qualities self-certified by the winner of this selection procedure shall be subject, by the University of Campania “Luigi Vanvitelli”, to appropriate checks, also on a sample basis, on the truthfulness of the same.

**Art. 8**

**Duties, rights and obligations of the grant holders.**

The grant holders shall carry out their research activity - not of merely technical support for the same - as part of the relevant programme to be carried out.

The research activity shall be continuous and in close connection with the implementation of the research activities that are the subject of the grant, shall be carried out in conditions of autonomy without mandatory working hours.

The grant holders, under penalty of termination of the relevant contract, are obliged to comply with the principles and duties set forth in Presidential Decree no. 62/2013 (code of conduct for civil servants) as far as compatible.

Grant holders are entitled to use the facilities and equipment of the premises where they carry out their research activities in accordance with the rules in force in those premises. The research
activity shall be carried out mainly inside these premises. If the activity must be carried out outside of those premises, it must be expressly authorised by the Research Lead and certified by the external structure.

Holders of research grants relating to scientific disciplines in the medical-clinical area may carry out assistance activities exclusively in relation to the needs of the project or research programme and in the manner and within the limits provided for therein.

The research activity shall be suspended during the period of compulsory abstention on grounds of maternity and illness duly proven, it being understood that the entire duration of the grant may not be reduced as a result of the above suspensions. A total period of justified absence not exceeding 30 days in a year shall not constitute a suspension and, consequently, shall not be added to the total duration.

**Art. 9**

**Incompatibility**

The grant is incompatible with employment relationships, including fixed-term employment, without prejudice to the possibility that the holder may be placed on unpaid leave for the entire duration of the contract, as provided for by Article 22, paragraph 3, of Law no. 240 of 30 December 2010. Grant holding is also incompatible with participation in undergraduate, postgraduate or specialisation courses, PhD courses with scholarship or medical specialisation.

The grant holder shall be allowed to attend a PhD course without a scholarship.

Grants may not be combined with other scholarships for any reason whatsoever, except for those awarded by national or foreign institutions to supplement, with stays abroad, the research activities of grant holders.

**Art. 10**

**Processing of personal data**

The personal data provided in relation to the participation in the competition will be processed in accordance with the principles of lawfulness, fairness, transparency, adequacy, relevance and necessity as per art. 5, paragraph of the GDPR (EU Regulation 2016/679). Such data will be processed exclusively for institutional purposes of the University and, in particular, for all the procedures related to the execution of this competition notice.

The processing of the aforesaid data will be carried out by means of manual, computerised and digital instruments and with logic strictly related to the purposes of such processing and in any case in such a way as to guarantee the security and confidentiality of the data, in compliance with the principles set out in art. 5 of European Regulation 2016/679. In relation to the processing of the aforementioned data, the data subjects may exercise their rights under articles 15 to 22 of the aforementioned EU Regulation 2016/679.

The Data Controller is the University of Campania “Luigi Vanvitelli”, in the person of the Magnifico Rettore pro-tempore, as the legal representative of the Institution; The Data Protection Manager for the University of Campania “Luigi Vanvitelli” is Mr Michele Mastroianni - email: rpd@unicampania.it; - PEC: rpd@pec.unicampania.it.

**Art. 11**

**Organisational Unit Responsible for the Procedure:**

Organisational Unit Responsible for the competition procedure: Research Training Office, Viale Ellittico 31 - 81100 Caserta - email ufficio.formazionericerca@unicampania.it.

Person responsible for the procedure: Dr. Michela Schettino
Art. 12
Final Provision
For all matters not provided for in this notice of competition, the rules contained in Law no. 240 of 30 December 2010 and in the current Regulations for the awarding of research grants shall apply.
Annex A

ANNEX TO THE NOTICE OF COMPETITION, FOR THE CONFERRAL OF NO. 22 RESEARCH GRANTS AT THE UNIVERSITY OF CAMPANIA "LUIGI VANVITELLI" financed with Department funds

A) Department of Architecture and Industrial Design

a1) No. 1 one-year grant of € 19,367,00.

Research Title: “Policies, methods and tools to classify inland areas and increase their resilience” funded by MATT as part of the “RI.P.R.O.VA.RE” project.

Location of the research: Department of Architecture and Industrial Design;

Scientific Disciplinary Sector: ICAR/20 – ICAR/21;

Tutor: Prof. Adriana Galderisi

Date, time of the interview: (By video conference) November 12, 2020, at 03:00 pm;

Subject of the interview: Policies and methods for delimiting and classifying inland areas; Development of the concept of resilience in scientific literature; Methods to analyse resilience: international and national experiences.

a2) No. 1 one-year grant of € 19,367,00.

Research Title: “Methods and tools for co-designing integrated strategies for sustainable and resilient inland development” funded by MATT as part of the “RI.P.R.O.VA.RE” project.

Location of the research: Department of Architecture and Industrial Design;

Scientific Disciplinary Sector: ICAR/20 – ICAR/21;

Tutor: Prof. Adriana Galderisi

Date, time of the interview: (By video conference) November 12, 2020, at 10:00 am;

Subject of the interview: Methods and tools for participatory planning and design; Participatory planning and design: international and national experiences; Existing strategies and tools for sustainable development of inland areas in Europe and Italy.

B) CIRN – Interuniversity Research Centre for Neuroscience

b1) No. 1 one-year grant of € 20,354,99.

Research Title: "Universal Health Coverage (UHC) and Multiple Sclerosis: access to advanced diagnostics. Right to the protection of the individual's health" funded by the TEVA Company;

Location of the research: Neurological Clinic, Edificio 10, Via Sergio Pansini, 10 - Napoli;

Scientific Disciplinary Sector: IUS/01 – IUS/13;

Tutor: Prof. Giacomo Lus;

Date, time of the interview: (By video conference) November 12, 2020, at 11:00 am;

Subject of the interview: The protection of the right to health; Universal Health coverage; the right of the disabled and the protection of disability; Legal support for the choice of diagnostics and care.
C) Department of Women, Children, General and Specialist Surgery

C1) No. 1 two-year grant of € 20,355.00.

Research Title: “The Endocannabinoid System as a therapeutic target for modulation of mitochondrial biogenesis and the containment of the inflammatory state in Duchenne muscular dystrophy.” funded as part of PRIN 2017;
Location of the research: Department of Women, Children, General and Specialist Surgery;
Scientific Disciplinary Sector: MED/38;
Tutor: Prof. Francesca Rossi;
Date and time of the interview: (By video conference) November 12, 2020, at 11:30 am;
Subject of the interview: Techniques of Cellular and Molecular Biology; Endocannabinoid system; Duchenne Muscular Dystrophy; Inflammation.

D) Department of Engineering

D1) No. 1 two-year grant of € 19,367.00.

Research Title: “Fault Tolerant" algorithms for aircraft guidance, navigation and control systems” funded by the Campania Region under the PON (National Operating Programme) “SCAVIR” project;
Location of the research: Department of Engineering;
Scientific Disciplinary Sector: ING-IND/03;
Tutor: Prof. Massimiliano Mattei;
Date and time of the interview: (By video conference) November 12, 2020, at 10:00 am
Subject of the interview: Flight mechanics, flight control systems, prediction algorithms and best control with Guidance-Navigation and Control applications.

D2) No. 1 one-year grant of € 24,426.00.

Research Title: “Development of control algorithms for robotic manipulation via touch sensors” funded by the EU under the “REFILLS” H2020 project;
Location of the research: Department of Engineering;
Scientific Disciplinary Sector: ING-INF/04;
Tutor: Prof. Ciro Natale;
Date and time of the interview: (By video conference) November 12, 2020, at 10:00 am;
Subject of the interview: Robotics (cinematic and robot dynamics); Sensors (force and touch sensors); Robot programming languages (Robot Operating System framework).

D3) No. 1 one-year grant of € 19,367.00.

Research Title: “The study of semi-distributed hydrological models of river basins-overflow basins” financed by MATT as part of the project “Decision support systems for the project of overflow basins in line with small coastal basins”;
Location of the research: Department of Engineering;
Scientific Disciplinary Sector: ICAR/02;
Tutor: Prof. Corrado Gisonni;  
**Date and time of the interview:** (By video conference) November 16, 2020, at 10:00 am;  
**Subject of the interview:** Theoretical approaches to the time distribution of project precipitation; theoretical and empirical models for the evaluation of rain infiltration mechanisms in permeable soils; Conceptual models of the process of transforming meteoric inflows into water outflows; Methods of design and hydraulic tests of water tanks and expansion basins.

d4) No. 1 one-year grant of € 19.540,79.

**Research Title:** “Study of improvement exchange with porous means and nanoparticles” financed by the EU under the “ASTEP” H2020 project and the “NanoTES” RTD_Programma V:ALERE 2020 project;  
**Location of the research:** Department of Engineering;  
**Scientific Disciplinary Sector:** ING-IND/10;  
**Tutor:** Prof. Bernardo Buonomo;  
**Date and time of the interview:** (By video conference) November 12, 2020, at 10:00 am;  
**Subject of the interview:** Thermal conduction, natural mixed and forced convection, thermal radiation, heat exchangers, thermal storage systems, numerical methods in heat transmission.

d5) No. 1 one-year grant of € 24.426,00.

**Research Title:** “New experimental configurations for the implementation of fibre-optic distributed sensors for dynamic strain measures" funded by the Campania Region under the POR FESR 2014-2020 - “GEOGRID" project;  
**Location of the research:** Department of Engineering;  
**Scientific Disciplinary Sector:** ING-INF/01;  
**Tutor:** Prof. Luigi Zeni;  
**Date and time of the interview:** (By video conference) November 16, 2020, at 02:00 pm;  
**Subject of the interview:** Fibre-optic structure, fibre-optic diffusion mechanisms, laser sources and semiconductor photodetectors, distributed fibre optic sensors, FPGA-based data acquisition systems.

E) Department of Humanities and Cultural Heritage

e1) No. 1 two-year grant of € 19.367,00.

**Research Title:** “Southern Italy and exotic literature in the modern age” funded under PRIN 2017;  
**Location of the research:** Department of Humanities and Cultural Heritage;  
**Scientific Disciplinary Sector:** M-STO/02;  
**Tutor:** Prof. Giulio Sodano;  
**Date and time of the interview:** (By video conference) November 16, 2020, at 03:00 pm;  
**Subject of the interview:** History of the South of Italy and its relations in the Mediterranean and Atlantic modern age world. State of research, historical discussion and recent studies on connections in the modern age between the Mediterranean and the Atlantic. Readings and readers of the South of Italy in the modern age.
F) Department of Environmental, Biological and Pharmaceutical Sciences and Technologies;

f1) No. 1 one-year grant of € 19.898,22.

Research Title: “Genetics and epigenetics of multi-locus imprinting disorders in Beckwith-Wiedemann syndrome and Silver-Russell syndrome” funded under the Convention with the ADVANCED ACCELERATOR APPLICATIONS Society;

Location of the research: Department of Environmental, Biological and Pharmaceutical Sciences and Technologies;

Scientific Disciplinary Sector: BIO/18;

Tutor: Prof. Andrea Riccio;

Date and time of the interview: (By video conference) November 16, 2020, at 03:00 pm;

Subject of the interview: Epigenetics and regulation of gene expression with particular reference to genomic imprinting; Analysis of genomic methylation profiles using arrays; Techniques for the analysis of DNA methylation, histone modifications and gene expression in an allele-specific way using NGS; Bioinformatic methods for DNA methylation analysis, gene expression and chromatin immunoprecipitation.

f2) No. 1 one-year grant of € 19.898,22.

Research Title: “Analysis and study of models, simulations, methodologies and measurement protocols for the analysis of physical processes and their energy and environmental impact”; Simulation models of energetic behaviours;

Location of the research: Department of Environmental, Biological and Pharmaceutical Sciences and Technologies;

Scientific Disciplinary Sector: FIS/07;

Tutor: Prof. Carmine Lubritto;

Date and time of the interview: (By video conference) November 16, 2020, at 02:30 pm;

Subject of the interview: Energy Audit, Predictive Simulation Models. Calculation of greenhouse gas emissions from energy consumption; Measurement and monitoring systems and statistical analysis methods.

G) Department of Advanced Medical and Surgical Sciences

g1) No. 1 one-year grant of € 24.000,00.

Research Title: “Prospective assessment of the correlation between circulating levels of oestrogen and progesterone and receptor expression in breast cancer patients with different BMI” funded under the 2018 allocations;

Location of the research: Department of Advanced Medical and Surgical Sciences

Scientific Disciplinary Sector: MED/18;

Tutor: Prof. Ludovico Docimo;

Date and time of the interview: (By video conference) November 12, 2020, at 09:00 am;

Subject of the interview: Breast cancer; Hormonal receptors; Obesity.
g2) No. 1 one-year grant of € 20,344.99.

Research Title: “Creating a computer database for the implementation of a diagnostic-therapeutic pathway based on the identification of new prognostic factors in patients with rheumatoid arthritis aimed at the application of precision medicine” funded by the company SANOFI;
Location of the research: Department of Advanced Medical and Surgical Sciences
Scientific Disciplinary Sector: MED/09 – MED/16;
Tutor: Prof. Ciro Pasquale Romano;
Date and time of the interview: (By video conference) November 11, 2020, at 12:00 pm;
Subject of the interview: Experience in clinical trials; Experience of instrumental diagnostic methods (e.g., ultrasound); Electronic CRF collection and usage experience.

g3) No. 1 one-year grant of € 20,355.00.

Research Title: “New therapeutic perspectives in the treatment of cavity and/or deep injuries in diabetic foot with integrated flowable wound matrix” funded by the Company Integra LifeSciences;
Location of the research: Department of Advanced Medical and Surgical Sciences;
Scientific Disciplinary Sector: MED/18;
Tutor: Prof. Silvestro Canonico;
Date and time of the interview: (By video conference) November 11, 2020, at 09:00 am;
Subject of the interview: Physiopathology, diagnosis and treatment of diabetic foot; Biomaterials for the treatment of chronic soft tissue lesions: physical-chemical characteristics, instructions for use and therapeutic results.

g4) No. 1 one-year grant of € 20,355.00.

Research Title: “Evaluation of angiogenetic progenitor cells and cardiovascular risk profile in patients with “andro-metabolic” syndrome funded under PRIN 2017;
Location of the research: Department of Advanced Medical and Surgical Sciences
Scientific Disciplinary Sector: MED/13;
Tutor: Prof. Katherine Esposito;
Date and time of the interview: (By video conference) November 11, 2020, at 10:00 am;
Subject of the interview: Primitive and secondary hypogonadisms, erectile dysfunction, diabetes mellitus, obesity and metabolic syndrome, molecular mechanisms of endothelial damage in metabolic diseases, laboratory protocols for evaluating biochemical markers of endothelial damage, principles of cytofluorimetry.

H) Department of Experimental Medicine

h1) No. 1 one-year grant of € 29,311.19.

Research Title: “Evaluation of the safety of immune checkpoint inhibitors as part of the spontaneous drug adverse reaction reporting system” funded by PRIN 2017;
Location of the research: Department of Experimental Medicine;
Scientific Disciplinary Sector: MED/50;
Tutor: Prof. Annalisa Capuano;
Date and time of the interview: (By video conference) November 12, 2020, at 11:30 am; Subject of the interview: Data mining; Signal analysis; Good Pharmacovigilance Practices; Case by case assessment; Algorithm of the preventability of suspected adverse reactions; Spontaneous signalling system; National Network of Pharmacovigilance; Eudravigilance; EudraVigilance data analysis system (EVDAS); Pharmacological aspects of immune checkpoint inhibitors.

h2) No. 1 one-year grant of € 20.354.99.

Research Title: “Impact of CB1 gene deletion on spermatogenesis and new sperm quality molecular markers” funded by PRIN 2017;
Location of the research: Department of Experimental Medicine;
Scientific Disciplinary Sector: BIO/13;
Tutor: Prof. Riccardo Pierantoni;
Date and time of the interview: (By video conference) November 12, 2020, at 11:00 am;
Subject of the interview: System of endocannabinoids and spermatogenesis; Spermiogenesis; Oestrogens and spermatogenesis; Post-translational changes of histone tails and histone sperm code.

h3) No. 1 one-year grant of € 20.000,00.

Research Title: “Production and purification of GAG-like molecules of biomedical interest with high molecular weight” funded under the Altergon CdS project;
Location of the research: Department of Experimental Medicine;
Scientific Disciplinary Sector: CHIM/11;
Tutor: Prof. Donatella Cimini;
Date and time of the interview: (By video conference) November 12, 2020, at 02:00 pm;
Subject of the interview: Production of polysaccharides of application interest, fermentation techniques and scale-up of the process, analytical techniques of quantification and characterisation of polysaccharides such as capillary electrophoresis and SEC-TDA, development of polysaccharide purification processes potentially adaptable to an industrial scale.

h4) No. 1 one-year grant of € 20.000,00.

Research Title: “Design and development of biomaterials of pharmaceutical interest and their biochemical and biological characterisation for applications in tissue regeneration” funded under the Altergon CdS project;
Location of the research: Department of Experimental Medicine;
Scientific Disciplinary Sector: BIO/10;
Tutor: Prof. Chiara Schiraldi;
Date and time of the interview: (By video conference) November 13, 2020, at 02:30 pm;
Subject of the interview: Methods of chemical derivatisation of biopolymers, glycosaminoglycans: function structure and applications; Analytical characterisation techniques: RPHPLC, UV Absorption - Vis, light scattering (SEC-TDA) enzyme and immuno-enzymatic tests, toxicity tests, cell cultures, RT-PCR.

I) Department of Precision

i1) No. 1 one-year grant of € 20.355,00.
Research Title: “Evaluation of microRNA expression modulation as a gene-independent therapeutic strategy in murine models of Inherited Retinal Diseases” funded by the Velux Stiftung Foundation;
Location of the research: Department of Precision;
Scientific Disciplinary Sector: MED/03;
Tutor: Prof. Sandro Banfi;
Date and time of the interview: (By video conference) November 16, 2020, at 10:00 am;
Subject of the interview: The genetics of hereditary retinopathies; models available for photoreceptor degeneration; the functional role of microRNAs under physiological and pathological conditions; microRNA-mediated gene expression regulation mechanisms; assessment of English proficiency.

i2) No. 1 one-year grant of € 20,354.99.

Research Title: “Epigenetics and nutrition: characteristics of buffalo milk miRNAs” funded by MISE as part of the “TABAREZO” project;
Location of the research: Department of Precision;
Scientific Disciplinary Sector: BIO/10;
Tutor: Prof. Maria Luisa Balestrieri;
Date and time of the interview: (By video conference) November 12, 2020, at 03:00 pm;
Subject of the interview: Techniques for extracting, analysing and identifying miRNAs from food sources. Knowledge of the biological relevance of microRNAs and techniques for detecting their expression through low-density array methodologies. Knowledge of cellular transfection techniques with coding plasmids for human genes with miRNA mimics or antagomiRNAs. Multidisciplinary approaches based on biochemistry and molecular biology techniques for the study of the molecular mechanisms through which miRNAs modify the epigenome. In-depth knowledge of cellular biochemistry techniques with particular regard to techniques of phenotypic characterisation, vitality and cell proliferation, proteomic techniques (two-dimensional electrophoresis, mass spectrometry, confocal laser microscopy, Western blot analysis). In-depth knowledge of epigenetics and signalling: analysis techniques of histone acetylation/deacetylation, non-histone proteins and DNA methylation. Understanding of the different mechanisms of programmed cell death (apoptosis, autophagy and senescence) and related analysis techniques.