



AREA RICERCA E TRASFERIMENTO TECNOLOGICO
SETTORE DOTTORATI E CONTRATTI PER LA RICERCA
U.O. ASSEgni DI RICERCA

PUBLIC SELECTION FOR NR. 47 RESEARCH FELLOWSHIP GRANTS – TYPE B
TO COOPERATE WITH A RESEARCH PROGRAMME WITH SPECIFIC FUNDING
(LAW 30 DECEMBER 2010, N. 240, ART.22)

THE RECTOR

HAVING REGARD to the Law 9 May 1989, n. 168;

HAVING REGARD to the Law 30 December 2010, N. 240, Art.22 "Assegni di ricerca";

HAVING REGARD to the Decree of the Minister of Education, University and Research of 9 March 2011, n. 102, setting the minimum amount of research fellowship grants;

HAVING REGARD to the article 15 of the Law n. 183 of 11 November 2011, defining the rules of certifications and replacement statements, and the prohibition of introducing in the implementation of European Union directives additional obligations compared to those provided for by the directives themselves;

HAVING REGARD to the law of 29 June 2022, n. 79 "Conversion into law, with amendments, of the decree-law of 30 April 2022, n. 36, containing further urgent measures for the implementation of the National Recovery and Resilience Plan (PNRR)", which allows, in a transitional regime, the assignment of grants for collaboration in research activity pursuant to art. 22 of law 240/2010;

HAVING REGARD to the decree-law of 29 December 2022, n. 198 ("milleproroghe" decree), following which the possibility of launching procedures for the awarding of research grants pursuant to article 22 of the law of 30 December 2010, n. 240, in the text in force before the date of entry into force of the decree-law 36/22;

HAVING REGARD to the Rules for the awarding of research fellowship grants, issued with Rector's Decree n. 2760 of 02/07/2021;

HAVING REGARD to the PRIN 2022 PNRR Notice, issued by the MUR with Directorial Decree no. 1409 of 09/14/2023, for the financing of public research projects, lasting two years, aimed at promoting the national research system, strengthening interactions between universities and research bodies in line with the objectives outlined by the National Research Plan Recovery and Resilience (PNRR) and to encourage Italian participation in initiatives relating to the Framework Program for research and innovation of the European Union - Mission 4 "Education and Research" - Component 2 "From Research to Enterprise" Investment 1.1 "Fund for the Program National Research and Projects of Significant National Interest (PRIN)";

GIVEN the list of projects financed by the University as part of the aforementioned call;

HAVING REGARD to the Disciplinary for granting the benefits granted for the financed projects mentioned above, which provides, among other things, that the implementation of the project activities is consistent with the principles of gender

equality in relation to articles 2, 3, paragraph 3 of the TEU, 8, 10, 19 and 157 of the TFEU, and 21 and 23 of the Charter of Fundamental Rights of the European Union, the protection and valorisation of young people and the overcoming of territorial gaps;

GIVEN the requests sent by the University Departments aimed at activating a total of no. 47 type B research grants to be deducted from the funds of the PRIN 2022 PNRR projects financed by the University;

DECREES

Art. 1 - Duration and amount of the research grant

A public selective procedure is announced, based on qualifications and interview, for the assignment of **n. 47 grants** for collaboration in research activities (Type B), using the **PRIN 2022 PNRR funds**, listed below:

Department of Architettura

Nr. Assegno	Area CUN	SSD	Cognome resp.	nome resp.	Codice progetto	CUP
1 - 2	8	ICAR/14	MACALUSO	Luciana	P2022ZZ42P_001	B53D23029680001
3 - 8	8	ICAR/21	VINCI	Ignazio Marcello	P2022LZP7J_001	B53D23029570001
4	8	ICAR/18	SCADUTO	Fulvia	P2022FA9YT_003	B53D23029030001
5	8	ICAR/12	SPOSITO	Cesare	P202289E5N_003	B53D23026850001
6	8	ICAR/17	MAGGIO	Francesco	P2022WZH9J_002	B53D23029320001
7	11	M-GGR/01	PICONE	Marco	P20225EBEB_002	B53D23029470001

Department BIND

Nr. Assegno	Area CUN	SSD	Cognome resp.	nome resp.	Codice progetto	CUP
1	5	BIO/16	CARUSO BAVISOTTO	Celeste	P2022AFZSN_001	B53D23032960001
2	6	MED/31	GALLINA	Salvatore	P2022WMPRA_001	B53D23030890001
3 - 4	9	ING- INF/05	VITABILE	Salvatore	P20222MYKE_002	B53D23025990001

Department of Culture e Società

Nr. Assegno	Area CUN	SSD	Cognome resp.	nome resp.	Codice progetto	CUP
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1	10	L-ART/04	CRUCIATA	Roberta	P2022XNCZ2_002	B53D23029340001
2	10	L-FIL-LET/04	CASAMENTO	Alfredo	P20227FR85_002	B53D23028900001
3	11	M-DEA/01	MANCUSO	Alessandro	P20223CPMC_005	B53D23029700001
4	14	SPS/12	RINALDI	Cirus	P2022CWBLM_002	B53D23029830001

Department DICHIRONS

Nr. Assegno	AREA CUN	SSD	Cognome resp.	nome resp.	Codice progetto	CUP
1	6	MED/46	DI FRANCO	Simone	P2022YAKJY_001	B53D23030910001
2	6	MED/36	DI FEDE	Olga	P2022KMWX3_001	B53D23031690001

Department of Fisica e Chimica

Nr. Assegno	Area CUN	SSD	Cognome resp.	nome resp.	Codice progetto	CUP
1	2	FIS/07	VETRI	Valeria	P20228CCLL_001	B53D23025270001
2	3	CHIM/01	ARRABITO	Giuseppe Domenico	P2022HEBEX_002	B53D23025320001
3	3	FIS/03	CICCARELLO	Francesco	P202253RLY_001	B53D23024210001

Department of Ingegneria

Nr. Assegno	Area CUN	SSD	Cognome resp.	nome resp.	Codice progetto	CUP
1	9	ING-IND/11	BONOMOLO	Marina	P2022EH2ZZ_002	B53D23027020001
2	9	ING-INF/05	CHELLA	Antonio	P202277EJ2_002	B53D23026020001
3-4	9	ING-INF/03	CROCE	Daniele	P2022WA578_001	B53D23024110001
5	9	ING-IND/11	GUARINO	Francesco	P2022LLYAF_002	B53D23027120001
6	9	ING-IND/23	INGUANTA	Rosalinda	P2022CHAHX_002	B53D23030550001
7	9	ING-INF/01	MACALUSO	Roberto	P2022X4W28_001	B53D23028680001
8	8	ICAR/03	MANNINA	Giorgio	P2022SLCFR_001	B53D23027250001

9-10	9	ING-IND/26	MICALE	Giorgio Domenico Maria	P20225HTWF_001	B53D23026770001
11	8	ICAR/02	NOTO	Leonardo	P20225K9YW_001	B53D23033470001
12	9	ING-IND/22	VALENZA	Antonino	P2022LKKLB_001	B53D23027610001
13	8	ICAR/02	PUMO	Dario	P20228L3KX_003	B53D23033500001

Department SEAS

Nr. Assegno	Area CUN	SSD	Cognome resp.	nome resp.	Codice progetto	CUP
1	13	SECS-P/06	PROVENZANO	Vincenzo	P202249BMJ_004	B53D23029460001

Department of Scienze Politiche e Relazioni Internazionali

Nr. Assegno	Area CUN	SSD	Cognome resp.	nome resp.	Codice	CUP
1	14	SPS/09 e SPS/11	AZZOLINA	Laura	P2022ALN7X_003	B53D23032620001

Department of Scienze Psicologiche, dell'esercizio Fisico e della Formazione

Nr. Assegno	Area CUN	SSD	Cognome resp.	nome resp.	Codice progetto	CUP
1	11	M-PED/03	DI MARTINO	Valeria	P20223RHM5_003	B53D23029710001
2	11	M/PSI-08	SALERNO	Laura	P2022ZNLKM_002	B53D23030040001
3-4	11	M/PSI-08	LO COCO	Gianluca	P202237PFB_001	B53D23030070001

Department STEBICEF

Nr. Assegno	Area CUN	SSD	Cognome resp.	nome resp.	Codice progetto	CUP
1	3	CHIM / 07	GARCIA LOPEZ	Elisa Isabel	P2022N48ZC_001	B53D23025400001
2	5	BIO/06	LUPARELLO	Claudio	P2022HXEJ2_001	B53D23033090001

Department of Scienze Agrarie, Alimentari e Forestali

Nr. Assegno	Area CUN	SSD	Cognome resp.	nome resp.	Codice progetto	CUP
1	7	AGR/08	IOVINO	Massimo	P2022YRXJZ_002	B53D23023760001
2	7	AGR/17	MASTRANGELO	Salvatore	P2022T8YCT_002	B53D23023690001

Department PROMISE

Nr. Assegno	Area CUN	SSD	Cognome resp.	nome resp.	Codice progetto	CUP
1	6	MED/15	BOTTA	Cirino	P2022E2JSK_002	B53D23030560001

Department of Scienze Umanistiche

Nr. Assegno	Area CUN	SSD	Cognome resp.	nome resp.	Codice	CUP
1	10	L-ART/05	SICA	Anna	P2022P9EEM_003	B53D23029180001
2	11	M-FIL/03	PUGLIESE	Alice	P2022ZZ7HE_002	B53D23029390001

The identifying elements of the research grants are shown in the sheets attached to this announcement which constitute an integral part of the same.

The amount of the research grant indicated in the form includes the costs borne by the Administration.

The total gross amount including the charges borne by the Administration will be paid to the beneficiary in deferred monthly instalments.

Art. 2 - General admission requirements

The holders of an Italian Degree obtained under the previous system (before Ministerial Decree 509/99) of an Italian Master's Degree, of a single-cycle Degree or equivalent qualifications issued by foreign countries, who are in possession of a professional scientific curriculum suitable for carrying out research activities as for Art.1 may apply for the public selection for the assignment of the allowance in question.

Italian citizens who are excluded from the active political electorate cannot be admitted to the selection procedure.

Citizens of EU Member States and non-EU countries must also possess the following requisites:

- enjoy full civil and political rights in the states of belonging or provenance;
- be in possession, with the exception of the ownership of Italian citizenship, of all other requisites envisaged for Italian citizens;
- have a working knowledge of the English language

Applicants must possess the prescribed requirements on the date of expiry of the deadline for the submission of the application for admission.

The University administration may at any time, with a motivated provision, decide the exclusion from the selection procedure due to the lack of the prescribed requirements.

Art. 3 - Application and deadline

The application for admission to the selection procedure, drawn up in free paper according to the form attached to the notice (Annex 1, downloadable from the following link:

<http://www.unipa.it/amministrazione/direzionegenerale/serviziospecialericercadiateneo/u.o.assegnidiricerca/struttura/modulistica.html> - **ALLEGATI DOMANDA ASSEGNI TIPOLOGIA B**), signed by the candidate, scanned and accompanied by the other

attachments downloadable from the aforementioned link and by the documentation deemed useful for the purposes of the assessment (in PDF format), should be addressed to the Area Ricerca e Trasferimento Tecnologico – Settore Dottorati e Contratti di Ricerca - U.O. Assegni di ricerca, University of Palermo, Piazza Marina n. 61 - 90133 Palermo and forwarded, no later than thirty days from the date of posting of this notice to the University notice board, by electronic means (by midnight of the thirtieth day), by personal PEC at the address: pec@cert.unipa.it.

The application form and the attached documents must be contained in a single PEC. For reasons related to the management of the certified e-mail box, the files to be sent attached to the PEC must have a maximum overall size of 30 MB. As regards the scientific works for which the evaluation is requested, the candidate is required to submit a specific substitutive declaration of certification in which, specifying whether he is the author or co-author, he must list them, number them and divide them by type. For each scientific work listed in the aforementioned list, the link through which the Commission can view it must be indicated.

The Administration is exempt from any responsibility for the non-receipt of the PEC sent by the candidates dependent on technical errors and / or causes not attributable to the same.

The obligation to sign by hand is considered fulfilled by attaching a copy of a valid identity document to the scan of the completed application and signed by the PEC holder.

For subjects belonging to the Member States of the European Union and non-EU countries, the application for admission to the selective procedure, signed with a digital signature and scanned, as well as the relative documentation requested (in PDF format) can be sent electronically from an address of ordinary e-mail by sending an e-mail to the following address: mail-protocollo@unipa.it. If it is not possible to sign with a digital signature, the obligation of handwritten signing, is considered fulfilled with validation of the application and declarations by handwritten signature before the interview.

In both of the cases described above, it is necessary to specify in the subject of the e-mail the following: "Public selective procedure for the allocation of n. 47 research grants

PRIN 2022 PNRR – Dipartimento di _____ Prof. _____ Assegno n. _____
(specifying the name of the Scientific Director)".

For the participation in the competition candidates are required, under penalty of exclusion, to pay within the deadline for submission of the application, a contribution for organizational costs in the amount of € 50.00. This contribution must be paid by bank transfer to c/c n. 000300004577 registered to the University of Palermo - Via Roma, 185 - 90133 Palermo - identification code of the treasury of the University of Palermo 9150300 - UniCredit S.p.A. - IBAN code IT09A0200804682000300004577 - SWIFT code: UNCRITMMPAE indicating in the reason for payment: " Contributo per la partecipazione alla *procedura selettiva pubblica per l'attribuzione di n. 47 assegni di ricerca PRIN 2022 PNRR – Dipartimento di _____ Prof. _____ Assegno n. _____ (specificando il nome del Responsabile Scientifico)*".

Copy of the bank transfer must be attached to the application.

In the application the candidates must indicate the selection call for which they intend to apply, the area and the scientific disciplinary sector (SSD) of reference of the research, the Department, the title of the research and the scientific director of the project; they must also declare under their own responsibility what is specified below:

- surname and name;
- place and date of birth;
- mailing address;
- residence;
- telephone number, e-mail box, social security number (or tax code, if any);
- citizenship;
- municipality on whose electoral lists they are registered, or the reasons for non-registration or cancellation from the same lists;
- to have no criminal convictions or to have ongoing criminal proceedings. In the opposite case, they must indicate the penal convictions reported or the criminal proceedings in progress, specifying whether amnesty, judicial pardon, pardon, etc. have been granted.
- degree held with the indication of the final mark and the date and the University in which it was awarded (candidates with a qualification obtained abroad that has not been declared equivalent, must expressly request a declaration of correspondence, only for the participation in the selection and attach the documents required by current legislation to enable the aforementioned declaration in question by the selection Committee);
- PhD title (if they hold one) or, for specific sectors, Medical Graduate School degree, with indication of the date of achievement and of the issuing University. Candidates with a PhD qualification obtained abroad must send together with the application form the qualifications with certified Italian translation and legalization by the authorities of the Country issuing the title (except in the case of exemption under international agreements and conventions) Each qualification must also be accompanied by the "Declaration of value" ("Dichiarazione di valore") issued by the Italian diplomatic representation in the Country where the qualification was obtained. Where the title has been declared equivalent, the candidate must attach the relevant documentation);
- attendance, if any, of second-level masters courses, post-graduate specialization courses obtained both in Italy and abroad, attendance of high- specialization schools, organization of scientific meetings, periods spent at Italian and foreign scientific institutions;

- e-mail address, to which the communications relating to this selective procedure are to be transmitted;
- enjoyment of civil and political rights in the Country of origin or provenance, or reasons for exclusion from them (for EU citizens and non-EU citizens);
- knowledge of the foreign language indicated in the form of interest
- non-existence of incompatibility pursuant to art. 11 of this announcement (otherwise the type of incompatibility must be indicated);
- to have or not have benefited from previous research fellowship grants pursuant to art. 22 of the law 240/2010;
- to have or not to have already been the holder of fixed-term research contracts (if any) pursuant to art. 24 of Law 240/2010.

The qualifications submitted for evaluation must be sent in certified copy or accompanied by a replacement statement, pursuant to article 46 or of a declaration pursuant to article 47 of the aforementioned decree.

The data and documents held by the University of Palermo may be acquired *ex officio* if the candidate indicates the indispensable elements for obtaining the information or data requested.

Candidates who hold only the degree must, on pain of exclusion from the competition, submit the documentation necessary to demonstrate they possess a scientific professional curriculum suitable for carrying out the research activity of this announcement.

Disabled candidates, according to the law of 5 February 1992, n. 104, will have to make explicit request, in relation to their handicap, with regard to the aid necessary to be able to sustain the interview.

The University administration assumes no responsibility for the dispersal of communications due to incorrect indication of the contact by the candidate or failure or late communication of the change of address and contact indicated in the application, nor for any errors not attributable to the administration itself.

Applications missing both from the application form signed and drawn up according to annex 1 and from any other document required by the call under penalty of exclusion and applications sent after the deadline will be declared ineligible.

Art. 4 – Selection Committee

No later than 15 days from the deadline for submission of applications, the Board of the Department Council or the Board of the field office proposes the names of the members of the Selection Committee, (three full members and an alternate one), chosen among the professors or researchers (tenured or not tenured) of the University of Palermo belonging to the CUN area of research, including the Scientific Director of the project entitled to funding, with the role of President.

In the first meeting, the Commission of selection, appointed by decree of the Rector, preliminarily and explicitly establishes the criteria and methods for assessing qualifications and the conduct of the interview. Subsequently, after having received the documentation of the candidates from the office and having examined the list of the candidates, it inserts, during the second meeting, a declaration showing that the commissioners are not in a relationship of kinship or affinity up to the fourth degree included, among them and with the candidates and that therefore there are not the causes of abstention referred to in articles. 51 and 52 of the Civil Procedural Code.

Then it proceeds to the evaluation of the qualifications and the attribution of the relevant score, which is communicated to the candidates before the date of the interview.

The Committee must complete the work within a maximum period of 60 days from receipt of the candidates' applications; it performs a comparative evaluation of the candidates based on the examination of the qualifications submitted by the same and an interview and draws up appropriate minutes according to the current selection regulations.

The judgment of the Commission is unquestionable on the merits.

Art.5 - Selection

The selection is carried out through the evaluation of academic qualification and interview. Up to 70 points may be awarded to qualifications and up to 30 points to the interview. To be admitted to the interview, candidates must achieve at least 40 points

out of 70 points for the qualifications. The interview is considered passed by candidates who have achieved at least 10 out of 30 available points.

Art.6 - Evaluation

The Committee will attribute the evaluation, expressed out of 100, according to the following criteria:

Titles

- up to 60 points for documented scientific activity according to the Unipa procedures for determining the status of active University researcher; theses and doctoral theses are excluded;
- up to 10 points for other qualifications (second level University master courses, post-graduate specialization courses obtained both in Italy and abroad, attendance of higher education institutions, organization of scientific meetings, periods spent at Italian and foreign scientific institutions).

Interview

Up to 30 points might be awarded for the interview, based on the discussion of the candidate's scientific production and aiming at ascertaining the level of scientific knowledge with respect to the research program of the research fellowship grant as well as the knowledge of the foreign language (for candidates who do not hold the level B1 certificate).

Art.7 Interview and ranking

Candidates, at least 20 days in advance, unless at the time of submitting the application, attach a declaration certifying that they waive the legal notice periods, will

be notified in the manner deemed most appropriate, of the place, day and date, time when the interview will take place. To take the interview, candidates must have a valid identification document.

At the end of each interview session, the Commission will display at the exam center the list of candidates examined with an indication of the marks obtained by each.

The interview will take place in a room open to the public.

The Commission forms the merit ranking in decreasing order, adding the score of the qualifications to that of the interview.

For the purposes of awarding grants, a research doctorate or, for the sectors concerned, a qualification in the medical area accompanied by adequate scientific production is a preferential qualification.

In the event of equal merit, preference will be given to the female candidate and, subordinately, to the one with a younger age.

A specific report will be drawn up of the selection operations and signed by all members of the Commission, which, once its work has been completed, will immediately transmit, via the Titulus IT protocol system, all the documents to the Research and Technology Transfer Area - Doctorates and Contracts Sector of Research - U.O. Research grants for further required obligations.

The competition documents and the related merit ranking are approved by decree of the Rector.

It will be posted, for a period of thirty days, on the official noticeboard of the University of Palermo.

Art.8 (Stipulation of the contract)

The research grant is established following the stipulation with the University of Palermo of an intellectual work contract pursuant to articles 2222 and following of the Civil Code.

The contract must be signed by the winner with a digital signature which must be affixed in PadES mode.

The contract may provide for possible penalties in case of non-compliance with contractual obligations.

The activity of the research fellow should not be considered, in any case, a subordinate employment activity. Grants do not give rise to rights regarding access to the staff roles of Italian universities.

The winner is required to present himself for the stipulation of the contract within fifteen days of the convocation.

Failure to comply with this term will result in the loss of the right to the research grant. In the case of particular, justified and documented motivations, the stipulation of the contract may be postponed beyond fifteen days but, in any case, for a period not exceeding sixty days from the convocation date; the only exception consists in the possible requests for extension for pregnancy and puerperium, or serious and documented infirmity.

The winner or the holder of the grant can also obtain the postponement or suspension of the the grant for a period not exceeding one continuous year in the following cases:
a) for the mandatory year of training for teaching at schools on a motivated request, with the consent of the Scientific Responsible of the project and of the Department to which the research project relates (following the Academic Senate deliberation in the session of 30 October 2001)

b) for the activation of scholarships granted by national or foreign institutions permitted by current legislation

The winner of the research fellowship grant is required to self-certify any changes made to the points referred to in art. 3 of this announcement, before signing the contract.

Art. 9 (Service)

The winner is required to start the research activity the first day after the signature of the contract.

The beginning of the activity is documented by the Director of the Department in which the person concerned must carry out his/her collaboration by sending a statement to the Area Ricerca e Trasferimento Tecnologico – Settore Dottorati e Contratti di Ricerca - U.O. Assegni di ricerca. For non-EU citizens the grant will start after obtaining the entry visa for scientific research and from the very beginning of the research activity.

Art. 10 (Activities and evaluation of the research fellows)

The methods and characteristics related to the research, in accordance with the aims of the project, will be established in the contract.

The holder of the research grant:

- carries out the research activities foreseen by the contract, previously declared by the Department Board compatible with its own research programs;
- may participate in university research groups and projects, regardless of the funding body;
- can take part in all the activities planned by the Department or by the field office for the promotion of research and the dissemination of results;
- can be part of the examination Boards, being already expert in the subject for the teachings of the scientific-disciplinary field of reference, at the request of the scientific tutor of the research fellow and after the presentation of the proposal drawn up in accordance with art.2 of the regulations for the appointment of scholars;
- can perform university teaching assignments conferred through contracts;
- may perform a limited supplementary teaching activity (maximum 20 hours per year) with authorization from the Tutor, if assigned by the Board of a Degree Course;

The Department or field office must provide the research fellow with the necessary support for the realization of the research program, guaranteeing access to the equipment, the necessary resources and the needed technical - administrative services.

The research fellow must carry out his/her research activity within the University facilities, according to the research program. Any research activity outside the University, provided that it is consistent with the research programs and objectives assigned to the grant holder, must be proposed by the Tutor and approved by the Board of the Department or of the field office.

Any renewal of the research grant will be authorized, upon motivated request of Board of the Department or of the field office, by the University Board of Directors, after verification of the availability of funding for the same research activity and subject to the positive evaluation by the Scientific Director of the project of the research activity carried out by the research fellow, certifying the need for the continuation of the fellowship grant for the completion of the research.

At the end of the period covered by the research fellowship grant, and in any case at the end of the research activity before the pre-established deadline, the research fellow must send to the to the Area Ricerca e Trasferimento Tecnologico – Settore Dottorati e Contratti di Ricerca - U.O. Assegni di ricerca a report on the activity carried out, countersigned by the Tutor or the Scientific Director/Contact person, accompanied by the evaluation expressed by the Board of the Department or of the field office in relation to the objectives set and accompanied by the relevant scientific production.

Article 11 (prohibition of cumulation, incompatibility, interruptions)

The following categories cannot be holders of a research fellowship grant:

- a) the permanent employees of universities, institutions, public research and experimentation bodies, ENEA, ASI, as well as of institutions whose scientific advanced diploma has been recognized as equivalent to the Ph.D. qualification pursuant to article 74, fourth paragraph, of the Decree of the President of the Republic July 11, 1980, n. 382, unless termination of the relationship due to voluntary resignation in the case of attribution of the grant;
- b) those who have a degree of kinship or affinity, up to and including the fourth degree, with a professor belonging to the Department to whom the grant has been assigned or to the structure publishing the call or with the Rector, the General Manager or a member of the University Board of Directors.

The grant is individual.

The grant cannot be cumulated with any scholarships, with the exception of those granted by national or foreign institutions useful for integrating, with stays abroad, the research activity of the research fellows.

The holder of the grant cannot participate in 1st and 2nd cycle degree courses, university master courses, PhD courses with scholarship or medical graduate schools, in Italy or abroad; employees of public administration must put themselves on leave, before accepting the research fellowship grant.

Private employees, even if part-time ones, cannot benefit from research fellowship grants.

The holders of research fellowship grants cannot participate to university master courses.

Self-employment and occasional collaboration activities are compatible with the research grant only if previously authorized by the Board of the Department or of the field office, upon acquisition of the motivated opinion of the Tutor and provided that the further activity does not prejudice the regular conduct of the research activity.

The total duration of the research fellowship, including any renewal, cannot in any case exceed six years (DL 31.12.2014 n.192, converted into Law n.11 of 27.02.2015), excluding the period in which the fellowship coincided with a PhD course, within the maximum limit of the legal duration of the relevant course.

The total duration of the research fellowship or of non tenured university researcher contracts, also intervening with other public, private or distance-education universities, as well as with public research and experimentation bodies, ENEA and ASI it cannot in any case exceed twelve years even if non-continuous.

The periods spent on maternity leave or on leave for health reasons according to current legislation are not taken into account for the purposes of the duration of the aforementioned contracts.

The research activity and the grant can be suspended, provided that the duration of the fellowship cannot be reduced due to the following suspensions, for:

- mandatory maternity leave and parental leave;
- severe illness;

Art.12 (termination of the grant and voluntary resignation)

In cases of serious non-compliance, reported by the Board of the Department, the contract can be immediately terminated by resolution of the Academic Senate, after hearing the interested party.

The revocation is automatic in the following cases:

- failure to start the activity within the established term;
- unjustified suspension of the activity for a period longer than fifteen days;
- serious violation of the incompatibility regime;

In case of withdrawal from the contract, the holder of the grant is required to give thirty days' notice.

In the event of failure to give notice, the Administration will withhold or recover from the holder of the grant an amount corresponding to the remuneration for thirty days.

The winners of public selections that give rise to the placement in the roles of university personnel are not subject to the obligation of thirty days' notice.

Article 13 (Taxes, social security and insurance)

As established by art. 22 paragraph 6 of Law 240/2010, the provisions of art. 4 of the Law of 13 August 1984, n.476 and subsequent amendments and additions, as well as, in matters of social security, those pursuant to art. 2, paragraphs 26 and following, of the law of 8 August 1995, n. 335 and subsequent modifications do apply to research fellowship grants.

With respect to mandatory maternity leave for checks, the provisions of the Ministry of Labour and Social Welfare Decree of 12 July 2007, and, with regard to sick leave, article 1, paragraph 788, of the law of 27 December 2006, n. 296 and subsequent modifications are applied.

During the period of mandatory maternity leave, the indemnity paid by the INPS pursuant to article 5 of the aforementioned decree of 12 July 2007 is integrated by the University up to the total amount of the research fellowship grant.

The University provides to the holders of the research fellowship grant the insurance coverage for accidents and civil liability towards third parties in carrying out the research activity.

The amount of the relative premium is deducted from the grant.

Health care insurance is the responsibility of the researcher without any intervention by the University.

Art.14 - Substitutions

In case of non-completion of the research fellowship period by the winner of the selection process, it will be possible to call the following in the ranking if the contract

period still to be used is equal to or greater than 12 months, pursuant to the provisions of law 240/2010 which provides for a minimum duration of one year.

Art. 15 - Publicity of the selection procedure

The present announcement will be posted on the official board of the University of Palermo, (<http://www.unipa.it/albo.html>) and on the MIUR website (<http://bandi.miur.it>).

The announcement will also be accessible at the University of Palermo website at: <http://www.unipa.it/amministrazione/direzionegenerale/serviziospecialericcadiateneo/u.o.assegnidiricerca/bandi>

Art.16 Processing of personal data

In application of EU Regulations 2016/679 the University undertakes to respect the confidential nature of the information provided by the candidate: "all data provided will be processed only for purposes related to and instrumental to the competition and to the possible stipulation and management of the contract with the University".

Art. 17 – Official in charge for the administrative procedure

Pursuant to the provisions of art. 5 of the law of 7 August 1990 n. 241 the official in charge for the selection proceedings referred to in this announcement is appointed in the person of Dott.ssa Stefania Crifasi - Head of the to the Area Ricerca e Trasferimento Tecnologico – Settore Dottorati e Contratti di Ricerca - U.O. Assegni di ricerca - email: stefania.crifasi@unipa.it.

Art. 18 Final provisions

For anything not provided for in this announcement, please refer to the Regulations and laws in force.

Palermo

THE RECTOR
Prof. Massimo Midiri

DEPARTMENT OF ARCHITETTURA

Grant n. 1

SCIENTIFIC AREA	08
SCIENTIFIC-DISCIPLINARY SECTOR	ICAR/14
SCIENTIFIC DIRECTOR	Prof. Luciana Macaluso
TITLE	The right Tree in the right Town. (RightTT) Urban forestry for People in Palermo.
DESCRIPTION	The decrees on urban and peri-urban forestry (MiTE, 09.10.2020 and 30.11.2021) defined the rules for planting trees in metropolitan cities in order to defeat climate change and achieve an improvement of the environmental and social conditions in the urban space. 330 million Euros has been allocated to plant 6.6 million trees, one thousand per hectare, for a total area of 6,600 hectares, by 2024. These plantings should happen according to the motto of "the right tree in the right place". Each tree must be planted in a manner suited to "the biogeographical and ecological characteristics of the places". RightTT provides the possible spatial impact of tree mass in towns by suggesting where and how to act in order to steer the spatial transformations towards aesthetically, environmentally and economically sustainable solutions. The vegetation will complete peripheries, both by mitigating their climate and through adaptation actions impinging on indoor spaces, as well as by contributing to the creation of ecological corridors. Greenery will define new spaces of which, to date, we consider overall quantitative characteristics (available economic resources, numbers of trees, CO2 absorbed), but we still ignore their architectural and landscape qualities.
DURATION	17 months
FUNDS	PRIN 2022 PNRR project " <i>The right Tree in the right Town. (RightTT) Urban forestry for People, in Naples and Palermo</i> " – U-GOV Code PRJ-1516
CUP	B53D23029680001
TOTAL GROSS AMOUNT	€ 33.843,85
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 2

SCIENTIFIC AREA	08
SCIENTIFIC-DISCIPLINARY SECTOR	ICAR/14
SCIENTIFIC DIRECTOR	Prof.ssa Luciana Macaluso
TITLE	The right Tree in the right Town (RightTT). Collaboration in landscape and architectural co-design and other co-actions and public fruition tests in experimental Urban Forestry spaces
DESCRIPTION	The decrees on urban and peri-urban forestry (MiTE, 09.10.2020 and 30.11.2021) defined the rules for planting trees in metropolitan cities in order to defeat climate change and achieve an improvement of the environmental and social conditions in the urban space. 330 million Euros has been allocated to plant 6.6 million trees, one thousand per hectare, for a total area of 6,600 hectares, by 2024. These plantings should happen according to the motto of "the right tree in the right place". Each tree must be planted in a manner suited to "the biogeographical and ecological characteristics of the places". RightTT provides the quality of the spatial impact of tree mass in towns. In particular, the requested collaboration activity concerns experimentation through shared architectural and landscape design activities and the study of the public use of urban forest areas. With a view to disseminating and verifying the satisfaction of the inhabitants and the phytosanitary state of the new vegetation, citizens, schools and local associations will be involved in reference to specific case studies in Palermo, on the slopes of the Corona dei Colli. The evaluation of the critical issues and potential of the actions carried out will allow us to suggest implementations and adjustments to national calls for proposals on Urban Forestry and to suggest maintenance, co-management and sustainability models for the study areas.
DURATION	12 months
FUNDS	PRIN 2022 PNRR "The right Tree in the right Town. (RightTT) Urban forestry for People, in Naples and Palermo" – U-GOV Code PRJ-1516
CUP	B53D23029680001
TOTAL GROSS AMOUNT	€ 23.889,78
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 3

SCIENTIFIC AREA	08
SCIENTIFIC-DISCIPLINARY SECTOR	ICAR/21
SCIENTIFIC DIRECTOR	Prof. Ignazio Marcello Vinci
TITLE	Mapping the new spatial inequalities within Southern European cities
DESCRIPTION	The goal of the project is to analyse the new forms of spatial inequalities that are emerging within urban areas in Southern Europe in relation to living standards, accessibility of urban resources, access to transport and sustainable mobility, immigration, environmental risks, trends in the housing market, population ageing, and other dimensions. The project will address the three following objectives: (1) Conceptualizing old and new urban inequalities, resulting in scientific publications to define the new 'boundaries' of spatial inequalities within cities, as well as to identify innovative methods to measure them at sub-urban scale. (2) Mapping spatial inequalities within Southern European cities, including the development of an Atlas of spatial inequalities in the two targeted cities (Naples, Palermo) using quali-quantitative indicators and a new 'urban inequality index'. (3) Guidelines for welfare and urban policies, to identify tools and good practices – through the analysis of European cases and focus groups – to guide future actions to tackle the socio-economic impact of spatial inequalities.
DURATION	18 months
FUNDS	PRIN 2022 PNRR "Mapping the new spatial inequalities within Southern European cities" U-GOV Code PRJ-1521.
CUP	B53D23029570001
TOTAL GROSS AMOUNT	€ 35.834,67
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 4

SCIENTIFIC AREA	08
SCIENTIFIC-DISCIPLINARY SECTOR	ICAR/18
SCIENTIFIC DIRECTOR	Prof.ssa Fulvia Scaduto
TITLE	Historical-archival research on the archconfraternities of Palermo (15th-18th centuries).
DESCRIPTION	In relation to the PRIN 2022 PNRR project, CNPCH (Confraternities Naples, Palermo and Cagliari Heritage-led innovation) the research is aimed at the census and perusal of the confraternal archives that still exist and are kept in the parish archives of Palermo or in the Diocesan Archives and in the archives of various bodies and institutions of the same city; the research will also be conducted at the State Archives of Palermo and will mainly concern the notarial fonds, while at the Historical Municipal Archives of Palermo the fonds "Atti, Bandi e Provviste" and "Consigli Civici" will be consulted. Starting from the archives produced by these institutions and the potential of other documentation preserved in various locations, it will be possible to investigate the role and dynamism of the confraternities that existed in Palermo (15th-18th centuries), in particular, issues related the activity of patronage, the control of urban space, property acquisition strategies and architectural promotion will be addressed. The objective is to define a framework as broad and adherent to the reality of the confraternity phenomenon in its historical, architectural and urban implications and therefore requires in-depth research supported by adequate archival investigations aimed at the identification and transcription of a substantial number of documents.
DURATION	12 months
FUNDS	PRIN 2022 PNRR " <i>The role of confraternities in institutional, urban and architecture planning (1400-1700). Heritage-led innovation for the cultural, economic and social advancement of communities: Naples, Palermo and Cagliari.</i> " - CNPCH (Confraternities Naples, Palermo and Cagliari Heritage-led innovation) - U-GOV Code PRJ-1536
CUP	B53D23029030001
TOTAL GROSS AMOUNT	€ 24.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant. n. 5

SCIENTIFIC AREA	08
SCIENTIFIC-DISCIPLINARY SECTOR	ICAR/12
SCIENTIFIC DIRECTOR	Prof. Cesare Sposito
TITLE	Actions, solutions and design strategies for mitigating the effects of climate change. A case study in the Municipality of Palermo
DESCRIPTION	<p>Climate and carbon neutrality by 2050 is an inescapable challenge that requires design actions aimed at climate mitigation and adaptation; however, they must necessarily be characterised by inductive “curiosity-driven” and “design-driven innovation” approaches that can serve PAs in model applications on different scenarios in urban settings.</p> <p>The research proposal has a dual purpose. The first aim is to build, through case studies and best practices from the international landscape, an abacus of possible actions, solutions and design strategies aimed at mitigating the causes of climate change, with a focus on the synergistic potential of two important drivers of the ecological and energy transition: a) green infrastructure; b) renewable energy sources. The second objective is to simulate the application of one or more mitigation strategies on a sensitive area in Sicily, evaluating their effects and benefits for the local community.</p>
DURATION	14 months
FUNDS	PRIN 2022 PNRR “REACT_Regenerative processes Enhancement to Address decision makers toward Climate-proof Transition of southern metropolitan areas” - U-GOV Code PRJ-1529
CUP	B53D23026850001
TOTAL GROSS AMOUNT	€ 28.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 6

SCIENTIFIC AREA	08
SCIENTIFIC-DISCIPLINARY SECTOR	ICAR/17
SCIENTIFIC DIRECTOR	Prof. Francesco Maggio
TUTOR	Prof.ssa Garofalo Vincenza
TITLE	Byzantine cultural routes between tangible and intangible
DESCRIPTION	The project intends to identify Byzantine itineraries in western Sicily and highlight the correlation between architecture, territory and society, aiming to facilitate the digital transition for the protection and enhancement of the architectural and landscape heritage in marginal areas. The analysed heritage could generate new culturally enhanced landscape contexts, capable of transmitting the historical memory of the territories and deepening the understanding of the transformation processes of landscapes and the environment. The project intends to respond through: 1) The growth of knowledge of sacred architecture of Oriental origin. 2) The experimentation of semantic and communicative models for the research and dissemination of cultural landscapes. 3) The definition of prototypes and 'good practices' for the valorisation of cultural routes in the social, educational and cultural spheres.
DURATION	12 months
FUNDS	PRIN 2022 PNRR "Byzantine cultural routes between tangible and intangible" - U-GOV Code PRJ-1522
CUP	B53D23029320001
TOTAL GROSS AMOUNT	€ 23.890,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 7

SCIENTIFIC AREA	11
SCIENTIFIC-DISCIPLINARY SECTOR	M-GGR/01
SCIENTIFIC DIRECTOR	Prof. Marco Picone
TITLE	Social infrastructures in Palermo. Local communities, social reproduction and urban green spaces
DESCRIPTION	Palermo is recently experiencing a crisis of public green spaces, caused by austerity measures and the lack of financial resources for local administrations and their social infrastructure policies. The city is known for possessing several green spaces, which have a positive impact on the everyday life of local residents. However, these spaces are often poorly maintained and some of them are even dismantled due to the lack of funding. The research starts from the need to work on the concept of "social infrastructures", which was already present in social sciences; however, the recent publication of Erik Klinenberg's Palaces for the People (2018) has stimulated a new wave of research on this topic. The research aims to create active collaboration relationships with local institutions and various third-sector stakeholders, with the goal of mapping and redesigning in a participatory way some of Palermo's green spaces, to transform them into more accessible places that are suitable for new forms of sociability.
DURATION	12 months
FUNDS	PRIN 2022 PNRR "Social infrastructures in question: Local communities, social reproduction and habitability in the Italian South" - U-GOV Code PRJ-1152
CUP	B53D23029470001
TOTAL GROSS AMOUNT	€ 24.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 8

SCIENTIFIC AREA	08
SCIENTIFIC-DISCIPLINARY SECTOR	ICAR/21
SCIENTIFIC DIRECTOR	Prof. Ignazio Marcello Vinci
TITLE	Comparing case studies on spatial inequalities in Southern Europe cities
DESCRIPTION	The goal of the project is to analyse the new forms of spatial inequalities that are emerging within urban areas in Southern Europe in relation to living standards, accessibility of urban resources, access to transport and sustainable mobility, immigration, environmental risks, trends in the housing market, population ageing, and other dimensions. In the context of the second objective of the project – Mapping spatial inequalities within Southern European cities – the research activity will focus on the comparison of case studies in the European context, with specific attention to the six cities targeted by the project
DURATION	12 months
FUNDS	PRIN 2022 PNRR “Mapping the new spatial inequalities within Southern European cities - U-GOV Code PRJ-1521
CUP	B53D23029570001
TOTAL GROSS AMOUNT	€ 23.889,78
KNOWLEDGE OF FOREIGN LANGUAGE	English

**DEPARTMENT OF BIOMEDICINA, NEUROSCIENZE E DIAGNOSTICA AVANZATA
(BI.N.D.)**

Grant n. 1

SCIENTIFIC AREA	05
SCIENTIFIC-DISCIPLINARY SECTOR	BIO/16
SCIENTIFIC DIRECTOR	Dott.ssa Celeste Caruso Bavisotto
TITLE	Implementation of a patient-derived 3D model of glioblastoma multiforme for the developing of extracellular vesicles-based drug delivery system
DESCRIPTION	This research is part of a larger project aimed to enhance the knowledge of GBM biology and heterogeneity, generating and validating a patient-derived 3D model of GBM, that will be studied for its genotypic and phenotypic features. It will develop a personalized drug delivery system, useful for precision medicine applications, based on patient plasma derived EVs that will be engineered to specifically carry selected antitumor microRNAs (miRNAs), that will be shuttled to target oncogenes associated with this cancer. During the 18 months of activity the fellow will have to: 1. To establish the GBM 3D model in which glial primary cells will be obtained from surgical resection and cultured in coculture with astrocytes and microvascular endothelial cells in 3D conditions. 2. To characterize the 3D model morphologically and molecularly. 3. Develop a method of engineering extracellular vesicles isolated from patient's plasma with antitumor microRNA molecules. 4. Study of the response of GBM 3D model for to the therapeutic tool developed
DURATION	18 months
FUNDS	PRIN 2022 PNRR Implementation of a patient-derived 3D model of glioblastoma multiforme for the developing of extracellular vesicles-based drug delivery system (EXANDROID- EXtracellular vesicles pATieNt-DeRived 3d gbm mOdel drug dellvery Developing)" - U-GOV Code PRJ-1537.
CUP	B53D23032960001
TOTAL GROSS AMOUNT	€ 36.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 2

SCIENTIFIC AREA	06
SCIENTIFIC-DISCIPLINARY SECTOR	MED/31
SCIENTIFIC DIRECTOR	Prof. Salvatore Gallina
TITLE	Pharyngeal Epidemiology, HPV prevalence and specific features of oropharyngeal cancer in insular Italy
DESCRIPTION	<p>In recent decades, a dramatic increase in oropharyngeal squamous cell carcinoma (OPSCC) incidence has been observed in Western countries. This burden of OPSCC appears to be related to the human papillomavirus (HPV) epidemic, now responsible for 60–80% of cases in the United States. HPV driven OPSCC has been clearly demonstrated to be a different entity compared to the traditional smoking/alcohol- associated OPSCC, as it is acknowledged in the 8th American Joint Committee on Cancer (AJCC) staging system edition since 2016. The global pooled prevalence of HPV-driven OPSCC has been estimated at ~45%, however most data describe a huge geographic heterogeneity of such figure, with rates of HPV- induced OPSCC approaching 80% in the US and other Anglosaxon countries and in Scandinavia, and markedly lower rates in highly populated countries as India and Brazil, and in some areas of China. In general, available evidence suggests higher proportions of HPV-induced OPSCC in highly developed countries, in North America and Europe, and lower rates in Asia and Africa (accounting for the majority of world population). Aim of the present project is to define the prevalence of HPV related OPSCC in the two largest islands of the Mediterranean Sea, Sicily and Sardinia, which are two of the less industrialised areas in Italy, characterised by relatively isolated populations in the West. Recent data obtained by our group in Sardinia show an HPV driven OPSCC rate among the lowest in Western countries (14.5%), close to that of less developed areas, such as Africa and Asia, with huge implications on epidemiology, prognosis and reliability of methods for assessing HPV related carcinogenesis. For all these reasons, our intent is to define the epidemiology of HPV-related squamous cell carcinomas of the oropharynx in these two islands, comparing the collected data with the trend in the rest of the Western countries. We will evaluate the prevalence of HPV-related tumors by a validated assay combining p16 immunohistochemistry (IHC) and DNA testing. As the p16 positive HPV negative rate has been demonstrated particularly high in populations with higher percentages of HPV negative OPSCC, as we expect in our populations, our project will be an opportunity to study this particular group of OPSCC. Also the non16 HPV genotypes will be specifically evaluated in these particular populations. All the groups defined by p16 immunohistochemistry and HPV genotyping will be characterized under the clinical point of view, evaluating their correlation with baseline parameters and</p>

	oncological outcomes under the molecular point of view by assessing the DNA methylation profile.
DURATION	24 months
FUNDS	PRIN 2022 PNRR Pharyngeal Epidemiology, HPV prevalence and specific features of oropharyngeal cancer in insular Italy” - U-GOV Code PRJ-1590.
CUP	B53D23030890001
TOTAL GROSS AMOUNT	€ 48.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 3

SCIENTIFIC AREA	09
SCIENTIFIC-DISCIPLINARY SECTOR	ING-INF/05
SCIENTIFIC DIRECTOR	Prof. Salvatore Vitabile
TITLE	Machine Learning Models for Mental Distresses Prediction and Recognition
DESCRIPTION	The primary objective of the IRRESPECTIVE project is to investigate behavioral changes in interactions and develop smart tools for detecting socio-emotional precursors of mild cognitive impairments (MCI) and mild dementia patients. The central emphasis of IRRESPECTIVE lies in the creation of a comprehensive, multi-modal, multi-episode, and multi-task approach to facilitate the automatic and personalized identification of dementia, along with providing assistance. The integration of multi-modal data is mandatory for the training process, in conjunction with the necessity to elucidate the rationale behind the models developed through eXplainable Artificial Intelligence (XAI) methodologies. The methodologies are imperative for the clinical validation of the models and for the explanation of results and established relationships.
DURATION	12 months
FUNDS	PRIN 2022 PNRR RRESPECTIVE: A Pilot analysis of behavioral and operational data for detecting Socio-emotional Precursors of mild Cognitive impairments (MCI) and dementia - U-GOV Code PRJ-1635.
CUP	B53D23025990001
TOTAL GROSS AMOUNT	€ 23.890,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 4

SCIENTIFIC AREA	09
SCIENTIFIC-DISCIPLINARY SECTOR	ING-INF/05
SCIENTIFIC DIRECTOR	Prof. Salvatore Vitabile
TITLE	Multimodal signal processing for behavioral changes detection in distressed patients
DESCRIPTION	The primary objective of the IRRESPECTIVE project is to investigate behavioral changes in interactions and develop smart tools for detecting socio-emotional precursors of mild cognitive impairments (MCI) and mild dementia patients. The workflow exploits multi-modal data which describe the ability of individuals to exhibit useful descriptors for mental distresses prediction and recognition. Multi-modal data processing is the central point focusing the current research activity. The project's initial focal point is directed towards data acquisition, encompassing audio, video, and handwriting data. Subsequently, the analysis of this acquired data assumes paramount importance. To this end, following the data acquisition phase, the critical step involves the feature extraction from video-recorded interactions, images and audio, employing advanced Artificial Intelligence based techniques.
DURATION	18 months
FUNDS	PRIN 2022 PNRR RRESPECTIVE: A Pilot analysis of behavioral and operational data for detecting Socio-emotional Precursors of mild Cognitive impairments (MCI) and dementia - U-GOV code PRJ-1635.
CUP	B53D23025990001
TOTAL GROSS AMOUNT	€ 35.835,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

DEPARTMENT OF CULTURE E SOCIETA'

Grant n. 1

SCIENTIFIC AREA	10
SCIENTIFIC-DISCIPLINARY SECTOR	L-ART/04
SCIENTIFIC DIRECTOR	Dott.ssa Roberta Cruciatà
TUTOR	Dott. Sergio Intorre
TITLE	Digital technology for the management and enhancement of historical-artistic collections
DESCRIPTION	The research involves an in-depth study of the issues related to the use of digital technology in relation to the management and valorisation of historical-artistic collections, with the specific objective to create a digital network of collections of contemporary art paintings owned by the Italian universities involved in the Prin - Bando 2022 PNRR (University collections of contemporary art: methodologies, digitization, and planning for university and territory. A first approach for a national network)
DURATION	12 months
FUNDS	PRIN 2022 PNRR - U-GOV Code PRJ-1550
CUP	B53D23029340001
TOTAL GROSS AMOUNT	€ 24.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 2

SCIENTIFIC AREA	10
SCIENTIFIC-DISCIPLINARY SECTOR	L-FIL-LET/04
SCIENTIFIC DIRECTOR	Prof. Alfredo Casamento
TITLE	Progymnasmata and Declamations as a curriculum for the rhetorical education and civic development
DESCRIPTION	The researcher will be involved in all the activities envisaged by PRIN 2022 PNRR (identificativo iris PRJ-1555; Ugov 27164). In particular, he will deepen the study of Greek and Latin progymnasmata and declamations as a system of rhetorical training and civic education, devoting attention to exercises that enhance the ability to argue in public and to take roles in public debate. The researcher will support didactic experimentation by making available to the research team the material and sources to be used in the experimental training courses that will be activated at the schools; will train the teachers and classes involved. The researcher will contribute to the preparation of scientific reports.
DURATION	12 months
FUNDS	PRIN 2022 PNRR - U-GOV Code PRJ-1555
CUP	B53D23028900001
TOTAL GROSS AMOUNT	€ 24.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 3

SCIENTIFIC AREA	11
SCIENTIFIC-DISCIPLINARY SECTOR	M-DEA/01
SCIENTIFIC DIRECTOR	Prof. Alessandro Mancuso
TITLE	Sociocultural Aspects of Developing Renewable Energy Communities (REC) in the Madonie's area (Western Sicily)
DESCRIPTION	Scientific literature and other public sources review and collaborative ethnographic research (also possibly with visual support) on sociocultural aspects of the current and prospected projects of developing Renewable Energy Communities in the Madonie's area (Western Sicily); Maintenance of the interdisciplinary approach during the research (anthropology, legal sciences); Management of the ethnographic research data and the project bibliography; Production at least one Anvur class A open access scientific article, eventually in co-authorship with members of the Unipa research team; Assistance in maintaining internal communications both within the research team of Palermo University and in the national research project (PRIN-PNRR 2022: "Energy Commons. Participatory Processes, Critical Resources Management, Communities' Response to Contemporary Socio-Economic Frictions"); Assistance in organizing local and national workshops and events linked to the project; Assistance in monitoring the progress of the national research project and in updating the project pages on Iris
DURATION	12 months
FUNDS	PRIN 2022 PNRR "Energy Commons. Participatory Processes, Critical Resources Management, Communities' Response to Contemporary Socio-Economic Frictions"- U-GOV Code PRJ-1466
CUP	B53D23029700001
TOTAL GROSS AMOUNT	€ 24.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 4

SCIENTIFIC AREA	14
SCIENTIFIC-DISCIPLINARY SECTOR	SPS/12
SCIENTIFIC DIRECTOR	Prof. Cirus Rinaldi
TITLE	Where are the LGBT victims of intimate partner violence? Operational practices and interventions who support victims, prevent, and fight against the phenomenon.
DESCRIPTION	The topic of the project is the intimate partner violence in LGBT relationships and its aims are, to increase, on the one hand, knowledge of the international literature on the subject, and, on the other hand, to analyze the characteristics and dynamics of this violence, along with the type of responses by services and listen to the victims. The main activities are the following: 1) conducting interviews with social workers familiar with LGBT matters); 2) conducting interviews with people working for CAVs, CAMs, CUMs, and LGBT associations; 3) in-depth analysis by using life history interviews directed to the LGBT victims; 4) participation in organization and conduction of three workshop/training sessions (staff of CAVs, CAMs, CUMs and LGBT associations; social workers; law practitioners); 5) interviews transcriptions and analysis with qualitative software.
DURATION	12 months
FUNDS	PRIN 2022 PNRR - U-GOV Code PRJ-1574
CUP	B53D23029830001
TOTAL GROSS AMOUNT	€ 24.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

**DEPARTMENT OF DISCIPLINE CHIRURGICHE, ONCOLOGICHE E
STOMATOLOGICHE – DI.CHIR.ON.S.**

Grant n. 1

SCIENTIFIC AREA	06
SCIENTIFIC-DISCIPLINARY SECTOR	MED/46
SCIENTIFIC DIRECTOR	Dott. Simone Di Franco
TITLE	Peritumoral AdipoSe Tissue I lipid trafficking Investigation through raman spectroscopy (PLASTICITY)
DESCRIPTION	The global obesity epidemic is a serious public health crisis. Excess adiposity poses a risk for chronic diseases, including breast and colon cancer. A high body mass index influences risk and prognosis. The obese environment promotes tumor development. The goal is to understand the molecular mechanisms generating cancer-associated adipocytes and the aggressive cancer phenotype, with in vitro and ex vivo experiments on the cross-talk between cancer cells and the tumor environment, with a specific focus on lipids. Raman spectroscopy will be used to identify targets to prevent metastatic and drug-resistant cancer in obese patients.
DURATION	12 months
FUNDS	PRIN 2022 PNRR Peritumoral AdipoSe Tissue I lipid trafficking Investigation through raman spectroscopy - PLASTICITY" - U-GOV Code PRJ-1074
CUP	B53D23030910001
TOTAL GROSS AMOUNT	€ 24.048,41
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 2

SCIENTIFIC AREA	06
SCIENTIFIC-DISCIPLINARY SECTOR	MED/36
SCIENTIFIC DIRECTOR	Prof.ssa Olga Di Fede
TITLE	Oral CAncer eXplained by DL-enhanced case-based radiological classification
DESCRIPTION	Records of patients affected by oral cavity carcinoma, with histologic proof, submitted to MR or CT exam with contrast medium i.v. administration, will be selected from institutional PACS. Images with alterations corresponding to tumor will be classified on the basis of related reports, then individually segmented, in order to be analyzed by the deep learning informatic system. Also oral cavity images from control patients will be selected. The informatic system will be validated in cooperation with informatic experts. The obtained results will be compared with pertaining literature and will then be published.
DURATION	18 months
FUNDS	PRIN 2022 PNRR Oral CAncer eXplained by DL enhanced case based classification OCAX U-GOV Code PRJ-1558
CUP	B53D23031690001
TOTAL GROSS AMOUNT	€ 37.500,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

DEPARTMENT OF FISICA E CHIMICA

Grant n. 1

SCIENTIFIC AREA	02
SCIENTIFIC-DISCIPLINARY SECTOR	FIS/07
SCIENTIFIC DIRECTOR	Prof.ssa Valeria Vetri
TITLE	Understanding liquid-liquid Phase Separation in Biomimetic Compartments
DESCRIPTION	This project aims to investigate the liquid-liquid phase separation (LLPS) of proteins, a fundamental cellular process. The objective is to understand the forces driving biomolecule condensation and apply this knowledge in designing biomaterials inspired by cellular processes. The primary focus is on creating a synthetic system to observe nanoscale organization and dynamics. The project will explore how modifications in biomolecule structure and interactions occur under various stimuli. This will be done by optimizing the presence of biorelevant crowders in physico-chemically engineered printed compartments. Experimental conditions will be adjusted to induce and analyze biomolecular crowding, confinement, dimensional downscaling, and self-organization within micro-compartments. The system will be studied by means of classical biophysical methods and observed in real-time with nanoscale spatial resolution using a custom super-resolution platform based on quantitative fluorescence microscopy.
DURATION	16 months
FUNDS	PRIN 2022 PNRR Liquid-Liquid Phase Separation dynamics in biomimetic compartments (LLIPS)- U-GOV Code PRJ-1502
CUP	B53D2302527 0001
TOTAL GROSS AMOUNT	€ 40.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 2

SCIENTIFIC AREA	03
SCIENTIFIC-DISCIPLINARY SECTOR	CHIM/01
SCIENTIFIC DIRECTOR	Dott. Giuseppe Domenico Arrabito
TITLE	Chemometric analysis of materials for eco-sustainable optoelectronic devices and organic/inorganic hybrid solar cells.
DESCRIPTION	The project aims at the description of a Green Total Index (GTI) for the classification of materials employed in the field of hybrid organic/inorganic photovoltaic and optoelectronic devices. The project will analyze molecules such as functionalized Polycyclic aromatic hydrocarbons and hybrid organic-inorganic perovskites, as benchmark for optoelectronic devices and solar cells, respectively. Mimicking devices will be realized by different solution deposition techniques and sealed. The devices will be exposed to stresses of different origin (mechanical, thermal, chemical), and the resulting pollutants from the leached solutions will be identified. The GTI index will be calculated by combining data derived from different analytical procedures resulting in the chemometric classification, concerning chemical stabilities, degradation byproducts, degradability by photocatalytic treatments, and finally waste classification.
DURATION	12 months
FUNDS	PRIN 2022 PNRR IntegRated approach to real eco sustainaBIE gReen Total index (ROBERTA)_U-GOV Code PRJ-1431
CUP	B53D23025320001
TOTAL GROSS AMOUNT	€ 24.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 3

SCIENTIFIC AREA	02
SCIENTIFIC-DISCIPLINARY SECTOR	FIS/03
SCIENTIFIC DIRECTOR	Prof. Francesco Ciccarello
TITLE	Topological properties of light and matter for quantum technologies
DESCRIPTION	<p>Topological and non-Hermitian physics are nowadays spreading at tremendous speed across several major areas, unveiling stunning phenomena allowed by quantum mechanics whose existence was yet surprisingly overlooked for many decades. Having in mind quantum optics platforms, the project will theoretically harness, develop and combine some powerful ideas that are currently circulating in the fields of quantum information science, topological quantum matter and non-Hermitian physics in order to explore new quantum phenomena and regimes, and investigate their potential for innovative applications in quantum technologies.</p> <p>Major goals of the project are the identification, characterization and detection of topological and/or non-Hermitian properties, such as (dressed) edge states and topological invariants, that can arise in quantum optics in the case of quantum emitters (atoms) coupled to engineered photonic lattices (e.g. coupled cavities/resonators). Special attention will be given to the fully new paradigm of so-called giants atoms (engineerable non-local atom-field coupling).</p>
DURATION	18 months
FUNDS	PRIN 2022 PNRR Harnessing topological phases for quantum technologies _U-GOV Code PRJ-1582
CUP	B53D2302421 0001
TOTAL GROSS AMOUNT	€ 45.832,59
KNOWLEDGE OF FOREIGN LANGUAGE	English

DEPARTMENT OF INGEGNERIA

Grant n. 1

SCIENTIFIC AREA	09
SCIENTIFIC-DISCIPLINARY SECTOR	ING-IND/11
SCIENTIFIC DIRECTOR	Dott.ssa Marina Bonomolo
TITLE	Development of a prototype of an Air conditioning and Water from Air, by Thermal Earth Recovery system
DESCRIPTION	The project aims to study a new device that allows internal air conditioning and water recovery/storage based on Peltier cells coupled to a horizontal earth-air heat exchanger. The process involves the collection of water coming from the cooling of hot-humid air through a process that leads to the condensation and separation of water vapor. The system can be autonomous if equipped with a photovoltaic panel and a micro wind generator, suitable for remote areas where electricity is absent. The system aims to adapt the systems normally applied for cooling microprocessors to geothermal probes, improving and expanding their functionality. The study requires an in-depth analysis to define the entire design for different application scenarios. The system will have to be numerically modeled in order to optimize its components and monitor its behavior in the laboratory.
DURATION	12 months
FUNDS	PRIN 2022 PNRR AIRcon.WATER – U-GOV Code PRJ-1096
CUP	B53D23027020001
TOTAL GROSS AMOUNT	€ 35.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 2

SCIENTIFIC AREA	09
SCIENTIFIC-DISCIPLINARY SECTOR	ING-INF/05
SCIENTIFIC DIRECTOR	Prof. Antonio Chella
TITLE	Robot Trustworthiness via Inner-Speech
DESCRIPTION	The aim of the task is to implement the robot's inner speech for establishing a trustworthy relationship of trust with the patient. The agent will try to explain its knowledge of a patient's profile, its reasoning to infer new knowledge about the patient, and how it tries to adapt its behavior to the emergent issues. The needed information related to the patient will be inferred by talking with them. In the meanwhile, the agent will talk to itself and the user can hear its thoughts.
DURATION	12 months
FUNDS	PRIN 2022 PNRR ADVISOR - ADaptiVe legIble robotS for trustwORthy health coaching – U-GOV Code PRJ-1556
CUP	B53D23026020001
TOTAL GROSS AMOUNT	€ 30.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 3

SCIENTIFIC AREA	09
SCIENTIFIC-DISCIPLINARY SECTOR	ING-INF/03
SCIENTIFIC DIRECTOR	Dott. Daniele Croce
TITLE	Machine learning techniques for analyzing spectral data from 5G and Beyond networks
DESCRIPTION	The research will be geared toward analyzing data collected from the 5G and Beyond communication infrastructure to monitor and optimize the radio spectrum. To this end, it will be required to apply machine learning techniques for data preprocessing and training of predictive models. Then, machine learning algorithms best suited to the specific problem and computational requirements will be selected. In addition to classical methods, quantum classifiers could also be explored, which represent a novel approach to trainable computational protocols. Leveraging the capabilities of these machine learning applications, this strategy aims to optimize available computational resources and minimize data transmission.
DURATION	12 months
FUNDS	PRIN 2022 PNRR BISS: Beyond-5G Infrastructure for Spectrum Sensing (P2022WA578) – U-GOV Code PRJ-1116
CUP	B53D23024110001
TOTAL GROSS AMOUNT	€ 24.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 4

SCIENTIFIC AREA	09
SCIENTIFIC-DISCIPLINARY SECTOR	ING-INF/03
SCIENTIFIC DIRECTOR	Dott. Daniele Croce
TITLE	Machine learning techniques for analyzing spectral data from 5G and Beyond networks
DESCRIPTION	The research will be geared toward analyzing data collected from the 5G and Beyond communication infrastructure to monitor and optimize the radio spectrum. To this end, it will be required to apply machine learning techniques for data preprocessing and training of predictive models. Then, machine learning algorithms best suited to the specific problem and computational requirements will be selected. Optimizations between the network plane (the technologies used to transmit the data) and the learning models will also be investigated, considering possible distributed and federated solutions that enable the use of locally available computational resources and minimize the data transmitted.
DURATION	12 months
FUNDS	PRIN 2022 PNRR BISS: Beyond-5G Infrastructure for Spectrum Sensing (P2022WA578) – U-GOV Code PRJ-1116
CUP	B53D23024110001
TOTAL GROSS AMOUNT	€ 24.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 5

SCIENTIFIC AREA	09
SCIENTIFIC-DISCIPLINARY SECTOR	ING-IND/11
SCIENTIFIC DIRECTOR	Dott. Francesco Guarino
TITLE	Neighbourhoods archetypes characterization within the Italian context : characterization, modelling, renovation and environmental sustainability assessment
DESCRIPTION	The research will focus the definition of different district archetypes to be the focus of the NETPLUS project. This activity includes the definition of different district archetypes to be the focus of the project, based on the case-studies and international databases. The district archetypes will be representative of the Italian context and will be investigated in terms of extension, energy flows included in the analysis and energy use. This research will generate as output a set of cases of neighborhood archetypes. The archetype districts will be investigated and solutions for renovation and installation for renewable energy systems will be proposed. Quantitative assessments will be performed based on building energy simulation in non-steady state. The perspective will be extended to the life cycle, including embodied carbon and other environmental indicators. Eco-profiles of the main components used for renovation of the case studies will be performed and, starting from eco-inventories, environmental performance indices will be calculated for the renovation of the districts.
DURATION	12 months
FUNDS	PRIN 2022 PNRR Neighborhood Energy Transition: towards Positive energy balance and carbon neutral districts – U-GOV Code PRJ-1350
CUP	B53D23027120001
TOTAL GROSS AMOUNT	€ 24.500,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 6

SCIENTIFIC AREA	09
SCIENTIFIC-DISCIPLINARY SECTOR	ING-IND/23
SCIENTIFIC DIRECTOR	Prof.ssa Rosalinda Inguanta
TITLE	Development and characterization of a multi-analyte electrochemical sensor for the quantification of biomarkers of chronic airways diseases
DESCRIPTION	The aim of the research is the development, validation and testing of an innovative multianalyte electrochemical sensor able to evaluate simultaneously H2O2, pH and UA in vitro cell models of chronic airways diseases such as Asthma and COPD.
DURATION	20 months
FUNDS	PRIN 2022 PNRR "MultiSe" – U-GOV Code PRJ-1481
CUP	B53D23030550001
TOTAL GROSS AMOUNT	€ 40.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 7

SCIENTIFIC AREA	09
SCIENTIFIC-DISCIPLINARY SECTOR	ING-INF/01
SCIENTIFIC DIRECTOR	Prof. Roberto Macaluso
TITLE	Synthesis, characterisation and optimisation of microstructured polar materials for microplastic sensing.
DESCRIPTION	The proposed research activity is based on synthesis, characterization, and optimization of polar materials which will be subsequently microstructured through periodic or random patterns in order to excite surface phonon polaritons (SPhPs) and bound states in the continuum (BICs) in the mid infrared (6 – 20 μ m). Materials will be synthesized by pulsed laser deposition (PLD), then will be characterised through XRD, SEM, AFM and Raman spectroscopy, and finally microstructured using appropriate patterns optimized for the excitation of SPhPs and BICs. The final goal of the project is therefore the experimental realization of functionalized metastructures for the identification of organic molecules contained in microplastics dispersed in the environment.
DURATION	16 months
FUNDS	PRIN 2022 PNRR Mid infrared metasurfaces and metamaterials for microplastic sensing applications – U-GOV Code PRJ-1110
CUP	B53D23028680001
TOTAL GROSS AMOUNT	€ 32.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 8

SCIENTIFIC AREA	08
SCIENTIFIC-DISCIPLINARY SECTOR	ICAR/03
SCIENTIFIC DIRECTOR	Prof. Giorgio Mannina
TITLE	Innovative membrane bioreactors for wastewater treatment: monitoring and modelling
DESCRIPTION	The research activity will be aimed at monitoring and subsequent modelling of innovative membranes for the treatment of waste water, including emissions of climate-changing gases. The research also aims to reduce the carbon footprint associated with greenhouse gas emissions from direct and indirect emissions, according to the current need to reduce environmental impact and promote sustainable development. The research activity involves experimentation with both pilot plants and real purification plants.
DURATION	12 months
FUNDS	PRIN 2022 PNRR Innovative Membrane technologies for advanced and sustainable wastewater treatment in view of boosting a circular economy approach – U-GOV Code PRJ-0564
CUP	B53D23027250001
TOTAL GROSS AMOUNT	€ 24.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 9

SCIENTIFIC AREA	09
SCIENTIFIC-DISCIPLINARY SECTOR	ING-IND/26
SCIENTIFIC DIRECTOR	Prof. Giorgio Domenico Maria Micale
TUTOR	Dott. Alessandro Tamburini
TITLE	Multiscale modelling of power generation units based on salinity gradient technologies.
DESCRIPTION	Development of multiscale modeling approaches able to predict the behavior of energy production units mainly based on the use of osmotic membranes (such as pressure-retarded osmosis). The activity concerns the development of a model able to include information related to the atomistic scale of the membranes and the micrometric scale of the channels within a larger scale structure as that of the unit as a whole. Economic equations are expected to be included as well. The goal is to build of a techno-economic tool capable of guiding the design and operation of salinity gradient energy production units.
DURATION	12 months
FUNDS	PRIN 2022 PNRR Cosmo – U-GOV Code PRJ-1191
CUP	B53D23026770001
TOTAL GROSS AMOUNT	€ 23.889,78
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 10

SCIENTIFIC AREA	09
SCIENTIFIC-DISCIPLINARY SECTOR	ING-IND/26
SCIENTIFIC DIRECTOR	Prof. Giorgio Domenico Maria Micale
TUTOR	Dott. Alessandro Tamburini
TITLE	Multiscale modelling of osmotic processes for the sustainable production of freshwater from the sea.
DESCRIPTION	The activity to be carried out concerns the development of multiscale models for membrane technologies based on the use of osmotic membranes (e.g. reverse osmosis, pressure-retarded osmosis, forward osmosis). Such models will also need to include economic equations. Once these models have been developed, they will be integrated into a simulation platform designed to recognize the couplings among the technologies being most suitable for the sustainable production of fresh water from the sea.
DURATION	12 months
FUNDS	PRIN 2022 PNRR Cosmo – U-GOV Code PRJ-1191
CUP	B53D23026770001
TOTAL GROSS AMOUNT	€ 23.889,78
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 11

SCIENTIFIC AREA	08
SCIENTIFIC-DISCIPLINARY SECTOR	ICAR/02
SCIENTIFIC DIRECTOR	Prof. Leonardo Noto
TUTOR	Dott. Giuseppe Cipolla
TITLE	Assessing and optimizing enhanced weathering strategies for carbon sequestration in southern Italy within different contexts of climate, soil, and crop dynamics
DESCRIPTION	This research will aim to address the urgent need to combat climate change by focusing on Enhanced Weathering (EW), as a carbon removal technique. Different key factors affecting the dissolution of silicate minerals, such as olivine, in soils and their subsequent reaction with CO ₂ , will be analyzed. Among them, the research will particularly focus on how soil water content dynamics, soil and vegetation types, and mineral composition influence EW dynamics, especially in the context of the cropland areas of Southern Italy. Furthermore, the research will assess how future climatic scenarios, including changes in precipitation patterns, impact EW dynamics, quantifying uncertainties in carbon sequestration estimates. Another goal is to optimize crop management practices by considering differences in climate, soil, and crop types within the framework of EW and provide recommendations for the most effective olivine amendment strategies to mitigate the effects of climate change.
DURATION	18 months
FUNDS	PRIN 2022 PNRR An integrated modeling approach for mitigating climate CHANGE effects through enhanCED weathering in Southern Italy - CHANCES – U-GOV Code PRJ-1554
CUP	B53D23033470001
TOTAL GROSS AMOUNT	€ 43.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 12

SCIENTIFIC AREA	09
SCIENTIFIC-DISCIPLINARY SECTOR	ING-IND/22
SCIENTIFIC DIRECTOR	Prof. Antonino Valenza
TITLE	Development and characterization of recyclable composite components obtained by 3D printing.
DESCRIPTION	The research project aims at the development and characterization of recyclable composite components obtained by 3D printing characterized by high durability in severe environmental conditions. To achieve this objective, bio-based thermoset resins with full recyclability will be developed. A careful evaluation study will be carried out in order to find the best chemical compound that can best integrate the amount of dissolution and recovery of the matrix and, in particular, the amount and shape of the recovered reinforcement. In parallel, specific green surface treatments for the reinforcements will be studied. The chemical and morphological modification on fibers surface will be assessed through a step-by-step procedure. Furthermore, the NFRC will be studied during aging under severe environmental conditions. The last part will be to evaluate the disassembly and reuse at the end of the product's life cycle.
DURATION	18 months
FUNDS	PRIN 2022 PNRR 3D Printing Technology for Innovative Recyclable and natural Composites with high Lifetime (3D-CIRCLE) – U-GOV Code PRJ-1567
CUP	B53D23027610001
TOTAL GROSS AMOUNT	€ 50.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 13

SCIENTIFIC AREA	08
SCIENTIFIC-DISCIPLINARY SECTOR	ICAR/02
SCIENTIFIC DIRECTOR	Dott. Dario Pumo
TITLE	Mapping vulnerability and resilience of Sicilian agroecosystems subject to natural and anthropogenic disturbances by functional performance "dynamic" indicators
DESCRIPTION	<p>Within the project PRIN 2022 PNRR "ASAP", focused on the development of techniques for the assessment and mapping of vulnerability and resilience of agroecosystems subject to climate change and anthropic pressures, it is necessary to revisit some existing "static" indicators, able, with a certain degree of subjectivity, to quantify the impact of extreme climatic events on ecosystems (agricultural productivity, soil erosion, hydraulic risk), with the aim of proposing new "dynamic" indicators based on "scenario-based" simulations carried out through appropriate ecohydrological models. The approach developed will be also applied to the Sicily region (Italy), deriving specific vulnerability and resilience maps.</p> <p>This application, to be carried out in a GIS environment, will require the acquisition and harmonization of various hydro-meteorological data at a regional level, as well as the retrieval and use of land-use, land-cover, and pedological maps.</p>
DURATION	12 months
FUNDS	PRIN 2022 PNRR Assessing and mapping novel agroecosystem vulnerability and resilience indicators in southern Italy ASAP- U-GOV Code PRJ-1354
CUP	B53D23033500001
TOTAL GROSS AMOUNT	€ 25.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

DEPARTMENT OF SCIENZE ECONOMICHE, AZIENDALI E STATISTICHE

Grant n. 1

SCIENTIFIC AREA	13
SCIENTIFIC-DISCIPLINARY SECTOR	SECS-P/06
SCIENTIFIC DIRECTOR	Prof. Vincenzo Provenzano
TITLE	Governance, Territorial Networks, and Open Innovation Platforms
DESCRIPTION	As part of the PRIN 2022 PNRR Project on the dynamics of the functioning of territories, the project intends to delve deeper into the topic of networks present in regions and the construction of an analytical Tool-kit for territorial governance. Knowledge of the regional economy and quantitative analysis of territorial networks are required.
DURATION	12 months
FUNDS	PRIN 2022 PNRR ECO-SET: A Multidisciplinary approach to plan ECOSystem SERVICES for cities in Transition" – U-GOV Code PRJ-1576
CUP	B53D23029460001
TOTAL GROSS AMOUNT	€ 24.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

**DEPARTMENT OF SCIENZE POLITICHE E RELAZIONI INTERNAZIONALI –
DEMS**

Grant n. 1

SCIENTIFIC AREA	14
SCIENTIFIC-DISCIPLINARY SECTOR	SPS/09 SPS/11
SCIENTIFIC DIRECTOR	Prof.ssa Laura Azzolina
TITLE	Peripheralization and electoral geography (PeriGeo)
DESCRIPTION	The research investigates the connections between territorial socio-economic development processes and electoral and political dynamics. In particular, the project aims to theoretically frame and empirically verify the connections between processes of peripheralization of territories and the political-electoral behavior of their residents. Peripheralization will be analysed both with reference to the urban areas, in the center-periphery dynamic, and with reference to extra-urban areas, in the central-inner areas dynamic. The research program will be carried out in the South of Italy. The design of the research foresees a mix a mix of qualitative and quantitative methods and techniques and in particular: the ecological analysis of secondary data from multiple sources, the analysis of micro-data collected ad hoc with a survey, and the analysis of data collected with in-depth interview
DURATION	14 months <i>Due to the needs of the research project, the research fellow's activities must begin no earlier than June 2024.</i>
FUNDS	PRIN 2022 PNRR Peripheralization and electoral geography – U-GOV Code PRJ-1543
CUP	B53D23032620001
TOTAL GROSS AMOUNT	€ 27.871,41
KNOWLEDGE OF FOREIGN LANGUAGE	English

DIPARTIMENTO DI SCIENZE PSICOLOGICHE, DELL'ESERCIZIO FISICO E DELLA FORMAZIONE

Grant n. 1

SCIENTIFIC AREA	11
SCIENTIFIC-DISCIPLINARY SECTOR	M-PED/03
SCIENTIFIC DIRECTOR	Dott.ssa Valeria Di Martino
TITLE	Enhancing Math Learning with Active Breaks: Design and Evaluation of an Evidence-Based Program
DESCRIPTION	The project aims to investigate the effectiveness of Active Breaks (AB) in pedagogical practice to reduce anxiety and enhance Executive Functions (EFs), subsequently influencing learning outcomes and performance in the field of mathematics. It hypothesizes a potential decrease in behavioral issues associated with ADHD, negatively impacting academic performance in the targeted domain. Therefore, the study will assess the effectiveness of a specifically designed educational intervention featuring the incorporation of active breaks into mathematics learning and assessment. Methodologically, a quasi- experimental research design will be employed, involving two groups (experimental and control) and pre-post measurements
DURATION	14 months <i>Due to the needs of the research project, the research fellow's activities must begin no earlier than June 2024.</i>
FUNDS	PRIN 2022 PNRR Peripheralization and electoral geography – U-GOV Code PRJ-1543
CUP	B53D23032620001
TOTAL GROSS AMOUNT	€ 27.871,41
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 2

SCIENTIFIC AREA	11
SCIENTIFIC-DISCIPLINARY SECTOR	M/PSI-08
SCIENTIFIC DIRECTOR	Dott.ssa Laura Salerno
TITLE	Digital Ostracism (DIGOST): Psychological approaches for understanding the phenomenon and tackling its adverse impact on well-being
DESCRIPTION	The large spread of Digital Technologies (DTs) over the last two decades could be primarily ascribed to their importance in satisfying the fundamental psychological need to belong. However, DTs have also increased disconnection opportunities, especially in terms of ostracism (i.e., being ignored by others), which is a detrimental experience that harms humans psychologically and physically. Recently, scholars have started investigating whether ostracism that occurs through DTs, that is digital ostracism" (DO; e.g.: phubbing and ghosting), can have comparable adverse effects to in-person ostracism. Through ten studies and adopting a multi-method approach, the DIGOST project aims to provide a deeper understanding of: (i) the individual, social, and contextual factors involved in DO; (ii) the processes and effects of DO over time; (iii) the dyadic and group dynamics involved in DO; (iv) the strategies to tackle the enactment and adverse consequences of DO.
DURATION	18 months.
FUNDS	PRIN 2022 PNRR U-GOV Code PRJ-1598
CUP	B53D23029710001
TOTAL GROSS AMOUNT	€ 39.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 3

SCIENTIFIC AREA	11
SCIENTIFIC-DISCIPLINARY SECTOR	M/PSI-08
SCIENTIFIC DIRECTOR	Prof. Gianluca Lo Coco
TITLE	Development of a self-help intervention to improve outcome of individuals with eating disorders
DESCRIPTION	<p>Eating disorders (Eds) are psychiatric illnesses characterized by pathological eating behaviors.</p> <p>Based on the transdiagnostic approach, Eds are triggered and maintained by interpersonal distress and difficulties to manage negative emotions. In this project, we will adopt digital technologies to improve treatment adherence and outcome of individuals with Eds, by testing the effectiveness of an online self-help program delivered through a mobile app. Specifically, this project aims to establish if an online personalized self-help approach is feasible and effective in ameliorating eating disorder symptoms and distress. We planned to conduct two randomized controlled trials to test the effectiveness of online guided self-help (GSH). The main outcomes are: (1) the improvement in eating disorder symptoms and body mass index; (2) the improvement in interpersonal distress and emotional difficulties; (3) changes in overall psychological well-being.</p> <p>Specific activities required for this project are: the development of self-help materials; the implementation of the RCTs; data analysis of treatment outcomes</p>
DURATION	16 months.
FUNDS	PRIN 2022 PNRR U-GOV Code PRJ-1603
CUP	B53D23030070001
TOTAL GROSS AMOUNT	€ 33.333,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 4

SCIENTIFIC AREA	11
SCIENTIFIC-DISCIPLINARY SECTOR	M/PSI-08
SCIENTIFIC DIRECTOR	Prof. Gianluca Lo Coco
TITLE	An online intervention for individuals with eating disorders. An analysis of therapeutic process.
DESCRIPTION	Eating disorders are psychiatric illnesses characterized by pathological eating behaviors. Based on the transdiagnostic approach, they are triggered and maintained by interpersonal distress and difficulties to manage negative emotions. In this project, we will adopt digital technologies to improve treatment adherence and outcome of individuals with Eds, by testing the effectiveness of an online self-help program delivered through a mobile app. We planned to conduct two randomized controlled trials to test the effectiveness of online guided self-help (GSH) in two different settings. Guidance in motivational chat will be facilitated by peer mentors; whereas experienced mental health providers will lead the online group sessions. The main goal of the project is to examine whether therapeutic alliance with both the group leader and the peer mentor can predict patient treatment outcomes at end of treatment and 3-month follow-up. Specific activities required for this project are: the development of self-help materials; the implementation of the RCTs; data analysis of process measures and therapeutic alliance
DURATION	12 months.
FUNDS	PRIN 2022 PNRR U-GOV Code PRJ-1603
CUP	B53D23030070001
TOTAL GROSS AMOUNT	€ 25.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

**DEPARTMENT OF SCIENZE E TECNOLOGIE BIOLOGICHE CHIMICHE E
FARMACEUTICHE (STEBICEF)**

Grant n. 1

SCIENTIFIC AREA	03
SCIENTIFIC-DISCIPLINARY SECTOR	CHIM/07
SCIENTIFIC DIRECTOR	Prof.ssa Elisa Isabel García-López
TITLE	New efficient carbon nitride composite photocatalysts prepared with materials arising from spent Li-ion batteries and Orange Peel Wastes for the photoreforming of aqueous solutions of biomass residues (PHOTOLION)
DESCRIPTION	The PHOTOLION project aims to develop innovative photocatalytic materials based on graphitic carbon nitride (g-C ₃ N ₄) loaded with Co-Ni-Mn from s-LIBS (i.e. the mixture of anode and cathode materials obtained from the mechanical shredding of s-LIB called "black mass") and the hydrochar deriving from the hydrothermal carbonization of orange peel waste. The catalytic materials thus obtained will be used in the photocatalytic production of H ₂ using organic orange peel derivatives as sacrificial agents
DURATION	18 months.
FUNDS	PRIN 2022 PNRR U-GOV Code PRJ-1611
CUP	B53D23025400001
TOTAL GROSS AMOUNT	€ 45.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 2

SCIENTIFIC AREA	05
SCIENTIFIC-DISCIPLINARY SECTOR	BIO/06
SCIENTIFIC DIRECTOR	Prof. Claudio Luparello
TITLE	Extracellular trap: double-edge sword of innate immunity
DESCRIPTION	<p>The aim of this project is to evaluate whether bioactive molecules obtained from the extraction of byproducts/processing residues from the fish and agri-food chains may inhibit and/or modulate extracellular traps etosis (Ets) response "in vivo" and in "in vitro" experiments with invertebrate, fish and human cells.</p> <p>In detail the assays will evaluate Ets, chromatin, intragranular product release and cytokine gene expression as endpoints, in parallel monitoring cell viability and the contribution of oxidative stress, autophagy, apoptosis, phagocytosis. The expected output of the project is to improve the knowledge on NETosis and Etosis and their inhibitors that can be used for biomedical and industrial applications such as drug development or the evaluation of stress levels in farm organisms to maintain their health status.</p>
DURATION	12 months.
FUNDS	PRIN 2022 PNRR Extracellular trap: double-edge sword of innate immunity U-GOV Code PRJ-1544
CUP	B53D23033090001
TOTAL GROSS AMOUNT	€ 23.889,78
KNOWLEDGE OF FOREIGN LANGUAGE	English

DEPARTMENT OF SCIENZE AGRARIE, ALIMENTARI E FORESTALI

Grant n. 1

SCIENTIFIC AREA	07
SCIENTIFIC-DISCIPLINARY SECTOR	AGR/08
SCIENTIFIC DIRECTOR	Prof. Massimo Iovino
TITLE	Measurement of hydraulic characteristics of engineered substrates for green infrastructures
DESCRIPTION	Green infrastructures are widely used for stormwater management. The substrate hydraulic characteristics (water retention and hydraulic conductivity curves) influence the hydrologic response of green infrastructures both in terms of runoff to the surface drainage network, aquifer recharge, and plant water availability. Knowledge of hydraulic characteristics is therefore essential for simulating of hydrological processes. In the case of technological substrates, such characterization is made more complex by the presence of two flow domains with time scales of hydrological processes that are very different depending on whether water saturation affects only the micropore domain or the entire substrate porosity (micro- and macropores). The research aims to develop effective hydraulic characterization techniques for dual porous systems. At this aim, direct methods based on evaporation and/or infiltration processes conducted in the field and laboratory will be used. Measurements acquired from such approaches will also be used, assuming appropriate soil parameterization with bimodal type models, for numerical inversion techniques through the use of HYDRUS software.
DURATION	12 months.
FUNDS	PRIN 2022 PNRR U-GOV Code 1569
CUP	B53D23023760001
TOTAL GROSS AMOUNT	€ 24.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

Grant n. 2

SCIENTIFIC AREA	07
SCIENTIFIC-DISCIPLINARY SECTOR	AGR/17
SCIENTIFIC DIRECTOR	Dott. Salvatore Mastrangelo
TITLE	Genome-wide association study for the identification of genomic regions affecting production and adaptation traits in Italian sheep breeds.
DESCRIPTION	Analysis of genomic, production and environmental data in order to identify and deepen knowledge of the genetic bases involved in the milk production and environmental adaptation in several sheep breeds.
DURATION	12 months.
FUNDS	PRIN 2022 PNRR Genomic study of the resilience background in Mediterranean sheep breeds (GEREMES) – U-GOV Code 1562
CUP	B53D23023690001
TOTAL GROSS AMOUNT	€ 30.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

**DEPARTMENT OF PROMOZIONE DELLA SALUTE, MATERNO-INFANTILE, DI
MEDICINA INTERNA E SPECIALISTICA DI ECCELLENZA "G. D'ALESSANDRO"**

Grant n. 1

SCIENTIFIC AREA	06
SCIENTIFIC-DISCIPLINARY SECTOR	MED/15
SCIENTIFIC DIRECTOR	Dott. Cirino Botta
TITLE	Identification of new immune-activating molecular targets in multiple myeloma through single-cell CRISPR-Cas9 screening
DESCRIPTION	<p>Multiple myeloma presents a multi-step neoplastic evolution process that, starting from a pre-malignant condition known as monoclonal gammopathy of undetermined significance (MGUS), evolves (often through an intermediate condition known as smoldering myeloma) into active myeloma requiring therapy. The neoplastic plasma cell, however, already exhibits all the cytogenetic and genomic alterations typical of advanced disease during the MGUS condition, emphasizing the importance of the microenvironment in acquiring the active neoplastic phenotype.</p> <p>The main objective is to identify genes whose downregulation can enhance Natural Killer-mediated cytotoxicity through the use of methodologies that study the effects of single gene knock-out at the single-cell level (single-cell CRISPR/Cas9 screening). This is done to identify new therapeutic targets capable of improving responses to immunotherapies.</p>
DURATION	18 months.
FUNDS	PRIN 2022 PNRR "Identification of Multiple Myeloma cell vulnerabiLities to NK cell-mediated immunosurveillance (MM-LiNK)" – U-GOV Code 1523
CUP	B53D23030560001
TOTAL GROSS AMOUNT	€ 36.000,00
KNOWLEDGE OF FOREIGN LANGUAGE	English

DEPARTMENT OF SCIENZE UMANISTICHE

Grant n. 1

SCIENTIFIC AREA	10
SCIENTIFIC-DISCIPLINARY SECTOR	L-ART/05
SCIENTIFIC DIRECTOR	Prof.ssa Anna Sica
TITLE	The italian method of acting for the classical repertoire in open air theaters (20th century).
DESCRIPTION	The Italian acting of the leading actors/actresses' tradition came to us in the twentieth century also thanks to having given back the productions of classics in ancient open-air theaters. In fact, the restitution of the staging of ancient texts in the sites of classical legacy, and the creation of modern theaters deeply linked with ancient architecture characterized the great theatrical and cultural season of the first half of the twentieth century. But above all, it should not be overlooked that the restoration of the ancient sites and the classical repertoire also have inspired new prospects and encouraged further developments of the Italian acting method, that had consolidated itself in the mid-nineteenth century as a national art before the political unification of the Country. Tracing this theatrical heritage, which made the theater speak Italian in the world, and subsequently understanding the reasons why the acting could have been changed after having been in contact with the transmission of the texts of classics, since the first production in Syracuse in 1913, is crucial for identifying artistic changes and developments and cultural events of the Italian theater and of the history of the Country. Specific expertise on the nineteen and twentieth-century Italian acting is required, to be able to run this research and achieve its objectives. Particularly it is requested a good knowledge of the reception of theories and practices of the classical, romantic and neoclassical Rappresentativa, what some individualized as " the Italian method of la drammatica", by others as the "ancient Italian method of acting ", and how it was received by the Italian actors and actresses of the first half of the twentieth century, through the analysis of the prompt-books and play-scripts, and how much of this tradition has survived. The art of the grandi attori was not just based on talent and improvisation, but on a great cultural baggage and a complex codified technique that we can still retrace in the acting treatises, and in the actors' play- scripts
DURATION	12 months.
FUNDS	PRIN 2022 PNRR Open Air Theaters in Italy – U-GOV Code 1571
CUP	B53D23029180001
TOTAL GROSS AMOUNT	€ 23.889,78



**Università
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AREA RICERCA E TRASFERIMENTO TECNOLOGICO
SETTORE DOTTORATI E CONTRATTI PER LA RICERCA
U.O. ASSEGGNI DI RICERCA

KNOWLEDGE OF FOREIGN LANGUAGE	English
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Grant n. 2

SCIENTIFIC AREA	11
SCIENTIFIC-DISCIPLINARY SECTOR	M-FIL/03
SCIENTIFIC DIRECTOR	Prof.ssa Alice Pugliese
TITLE	The social embedding of homo individualis' teleology and well-being: (Understanding homo individualis UHI)
DESCRIPTION	The social embedding of homo individualis' teleology and well-being: Considering homo individualis as a living being with specific drives, needs, forms of feelings, desires, etc. the researcher will investigate how they are connected with homo individualis' social embedding, and how their satisfaction is also connected with intersubjectivity. In particular, this part of the research will try to understand what kind of collective intentionality, if any, the flourishing of individuality can be connected to. Given that homo individualis is a self-aware self-representing being, it is a being that necessarily also has some form of social relationship and experience, the hired researcher will investigate the kind of values (self-determination, responsibility/responsivity, etc.) homo individualis is (socially) linked with. In particular, on the assumption that the consciousness of homo individualis is characterized (also) by a self-understanding as a pure ego and as indeterminate, they will investigate whether and how these features have a social relevance, and in which way one's "own" emptiness can be positively considered as a value to be socially safeguarded
DURATION	12 months with the possibility of renewal for a further 12 months
FUNDS	Progetto PRIN 2022 PNRR – U-GOV Code PRJ-1573
CUP	B53D23029390001
TOTAL GROSS AMOUNT	€ 30.000,00 for 12 months
KNOWLEDGE OF FOREIGN LANGUAGE	English