



Decree of the Rector n. 1287 of 04/12/2023
Competition for awarding 1 research grant at the University of Udine

DISCLAIMER:

The official and legally binding call for applications is in Italian only.
This document cannot be used for legal purposes and is only meant to provide information in English on the call for applications (Decree of the Rector n. 1287 of 04/12/2023). Please refer to the official call published on: <https://www.uniud.it/it/albo-ufficiale>

Any change and integration will be made available on the above mentioned web page. Therefore, no personal written communication regarding the examination date and/or competition results shall be provided to applicants.

Annex 1

Competition announcement for the assignment of 1 research grant at the University of Udine, entitled "Defining gene regulation at single cell resolution in grapevine" SSD: BIO/18 (principal investigator, Michele Morgante)

Research grant funded by the resources of the project PRIN 2022 - Prot. n. 2022JRJPWM

Art. 1

A selection procedure is hereby launched for the award of 1 research grant at the University of Udine, as identified in Attachment A which constitutes an integral part of the present announcement.

The research grant is linked to the research project and is subject and conditioned upon the relative funding.

The fellowship may be renewed, in compliance with Art. 22, Law No. 240 of 30 December 2010 (as in the text in force before the implementation of the Conversion Law of the D.L. 36/2022, L. 79/2022), Law No. 11 of 27 February 2015, and the current regulations of the University of Udine for awarding research grants, issued with the Rector's Decree No. 182 of 31 March 2021. The renewal is subject to the scientific coordinator's positive assessment of the researcher's activities, an adequate scientific rationale, and a corresponding financial covering.

The research fellowship does not give rise to any right with regards to accessing University posts.

Any personal communication to candidates related to this selection will be sent exclusively to the email address indicated when registering for the selection, as mentioned in Art. 5.

Art. 2

The research grant described in this competition announcement and the required qualifications to apply for the position are identified in Attachment A. The lack of the admission requirements leads to the automatic exclusion from the competition procedure.

Possession of a PhD or equivalent degree obtained abroad or, only for the interested areas, of a medical specialization accompanied by an adequate scientific production, constitutes a preferential qualification for awarding the research fellowship of this selection, if it has not been provided as a mandatory requirement.



For the only purpose of the admission to the competition, the Examining Board (Art. 7) shall assess the equivalence of the qualification obtained abroad, except for the evaluation of the medical specialization qualification to which Article 38 of the Legislative Decree 165/2001 and subsequent modifications and additions, and EU regulations on the matter, shall be applied.

The Examining Board will proceed to the evaluation of the qualification obtained abroad according to the documentation attached to the application form. The Examining Board may exclude the candidate if the submitted documentation does not provide sufficient information for the assessment.

Therefore, applicants must enclose all the documentation in their possession relating to their qualification in order to provide the Examining Board with sufficient information for assessment.

Candidates holding a qualification issued by a **European Research Area country**, if successful, must submit, if not already attached to the application form one of the following options:

- Supplement Diploma in English issued by the competent University.
- CIMEA Certificate of comparability of the foreign qualification, issued by CIMEA (Information Centre on Academic Mobility and Equivalence) via the "diplome" service at <https://cimea.diplo-me.eu/udine/#/auth/login>

Candidates holding a qualification issued by a **non-European Research Area country**, if successful, must submit, if not already attached to the application form one of the following options:

- Declaration of the on-site value of the qualification and the certificate relating to the degree with examinations and grades. A certificate in a language other than Italian or English must be accompanied by an official translation into one of these languages (certified by the competent diplomatic-consular authority or certified by a court in Italy).
- CIMEA Certificate of comparability of the foreign qualification, issued by CIMEA (Information Centre on Academic Mobility and Equivalence) via the "diplome" service at <https://cimea.diplo-me.eu/udine/#/auth/login>

If the Supplement Diploma or the statement/attestation of comparability are not available when signing the contract, the applicant must demonstrate that he/she has requested the documentation and submit it as soon as possible.

Any exclusion from the selection procedure due to lack of eligibility requirements, absence of required documents, failure to sign the selection application or submission of the selection application in a manner different from what is provided for in this call for applications will be communicated to applicants exclusively at the email address indicated in the application form.

Art. 3

The research grant referred to in this call for applications cannot be awarded:

- a. to employees of Universities and the entities referred to in Article 22, section 1, of Italian Law no. 240 of 30 December 2010 (in the text prior to the reform introduced by Law no. 79 of 29 June 2022);
- b. to those who have already been awarded research grants pursuant to Italian Law no. 240 of 30 December 2010 (prior to the reform introduced by Law no. 79 of 29 June 2022) for the maximum period provided by law, even if not continuously, excluding the period in which the grant was used in conjunction with the doctorate, up to the legal term of the relative course;
- c. to those who have already benefited from research grants and fixed-term researcher contracts provided for, respectively, in Articles 22 and 24 of Italian Law no. 240 of 30 December 2010 (in the



text prior to the reform introduced by Law no. 79 of 29 June 2022), for a total of 12 years, even if not consecutive;

- d. to anyone who has a degree of kinship or affinity, up to and including the fourth degree, with:
- the Rector, the Director General or a member of the Board of Directors of the University of Udine;
 - the scientific supervisor or a professor/researcher belonging to the department or organisation hosting the research grant in question.

The research grant provided for in this call for applications cannot be combined:

- a) with scholarships of any kind, except for those granted by Italian or foreign institutions to supplement, by means of stays abroad, the fellow's training or research activities;
- b) with other research grants;
- c) with an employment relationship, even if part-time, without prejudice to the relevant provisions for employees of public administrations.

The grant awarded under this call for applications is also incompatible with simultaneous attendance at university degree courses, either Bachelor's degree or Master's degree courses, research Doctorates with scholarships and medical specializations, in Italy or abroad.

Art. 4

Applicants must enclose with their application, under penalty of exclusion, the following documents:

- a) their professional scientific CV, highlighting the candidate's aptitude for carrying out and implementing the research project (Attachment A);
- b) their identity card, their passport or any other identification document¹;
- c) (for candidates with a foreign qualification only) certification or self-certification of both the academic qualification required for the admission to the selection, and of the exams (with evaluation) took during the period of study abroad, and of any other document that can be useful to the evaluation of the degree by the Examining Board.

Applicants can attach to the application, publications and any other certification considered useful to demonstrate the qualification based on the research program (Attachment A) and to certify any research activity accomplished at public or private institutes (indicating the starting and ending date and the duration).

The documents and qualifications mentioned above must be submitted in Italian or English. Those that are not as requested will not be evaluated. Documents originally written in a language other than Italian or English must come with a translation in Italian or English, that the candidate will do on its own responsibility. The translation can be an abstract concerning the thesis.

Italian and Community candidates wishing to submit qualifications referring to conditions and facts attested by Public Administrations must proceed exclusively with self-certification.

Non-EU citizens legally residing in Italy may self-certify only data that can be verified or certified by Italian public bodies. They may also use declarations in lieu when provided for by an international convention between Italy and the declarant's country of origin.

Non-EU citizens not residing in Italy cannot self-certify.

Only the qualifications possessed by the candidate on the date the application form is submitted and submitted in accordance with the procedures set out in Article 5 will be assessed.

¹ Please be aware that the residence permit is not an identification document.



Failure to submit mandatory documents provided for in this article will constitute grounds for exclusion from the selection.

Art. 5

The submission of the applications for the present call starts on December 21, 2023 at 2:00 pm (Italian time) and ends on March 21, 2024 at 2:00 pm (Italian time).

The application to take part in the selection must be completed, under penalty of exclusion, using the appropriate online procedure, available at the link <https://pica.cineca.it/>. The procedure involves an applicant registration step, for those who do not already have an account, and then an application completion step.

Once completed, the online application must be signed in the manner described in the online procedure (manual signature with attached identity document or digital signature), under penalty of exclusion from selection. The application does not have to be signed if you access the above-mentioned online procedure using your SPID ID.

The qualifications referred to in Article 4 must be attached to the application in .pdf format. Individual .pdf files may not exceed 30MB.

The application for participation in the selection is automatically sent to the University of Udine with the definitive closing of the online procedure.

The University Administration:

- is not responsible if it is impossible to read the submitted documentation in electronic format due to damaged files;
- shall not accept or take into consideration qualifications or documents received in paper form or by any means other than what is specified in this article.

Reference to documents or publications already submitted in connection with other competitions is not allowed.

The Administration is not responsible for any missing document or communication because of inaccurate indication of residence and/or address submitted by the candidate during the application. Also, the Administration is not responsible if the candidate has not communicated changes in this information, or has communicated them too late. The Administration is also not responsible for any postal or telegraphic problems not attributable to the Administration itself.

Applicants are advised not to wait until the last few days before the closing date to submit their application. The University accepts no responsibility for any malfunctions due to technical problems and/or overloading of the communication line and/or application systems.

Art. 6

The selection procedure is held in accordance with the modality indicated in Attachment A.

The test will aim to assess the general preparation, experience and aptitude for research of the candidate. It will consist in the evaluation of the professional scientific curriculum, of the publications and qualifications presented, and of the interview, where foreseen.



Art. 7

The Examining board for the competition is identified in Attachment A of the present competition announcement, of which it is an integral part.

At its first meeting, the Examining board shall appoint its President and Secretary, and establish the criteria and methods for evaluating the qualifications and the interview, where foreseen.

The results of the qualifications assessment must be disclosed to applicants during the interview, where foreseen.

The Examining board can award a maximum of 100 points (one hundred out of one hundred) to the selection.

At the end of the evaluation procedure, the Examining board shall formulate the general merit list based on the overall score of each candidate, and draw up the minutes of the whole competition procedure.

Based on the ranking list, the assignment is awarded to candidates who have obtained a minimum overall score of 70/100 (seventy out of one hundred).

The Examining board's judgement is final.

The ranking list will be made public exclusively through publication on the University's official website.

Applicants will not be notified of the outcome of the evaluation.

Those who do not declare their acceptance of the research grant and do not present themselves at the research centre within the deadline communicated by the latter, even if not formally, shall lose the right to receive it. Exceptions to this term will only be granted in cases of documented force majeure.

Art. 8

The research activity cannot be started before signing the contract defining the terms and conditions of the collaboration.

The activity covered by the research grant must have the following characteristics:

- a) it must be carried out as part of the research programme covered by the grant and not be a merely technical support to it;
- b) it must have a close connection with the realization of the research program for which the winner of the grant has been awarded the contract;
- c) it must be continuous and, in any case, temporally defined, not merely occasional, and in coordination with the overall activity of the University;
- d) it must be carried out autonomously, solely within the limits of the programme prepared by the programme supervisor, without predetermined working hours.

The researcher is required to submit a detailed written report on the work carried out and the results achieved, accompanied by the opinion of the scientific supervisor, to the reference organisation at the intervals set out in the contract. The researcher must also submit interim reports and timesheets, if requested by the reference organisation.



Either the fellow or the reference organisation may withdraw from the contract.
The reference organisation may terminate the contract not only in the cases referred to in Article 9, sections 2 and 3, of the "Internal rules for awarding research grants pursuant to law 240 of 30 December 2010" of the University of Udine, but also in the event the research project and therefore the financial coverage on which the research grant is based cease to exist.

Art. 9

The following legal dispositions shall apply to the grant referred to in this call for applications:

- for tax matters, the provisions of Article 4 of Italian Law no. 476 of 13 August 1984, as subsequently amended and supplemented;
- for social security matters, the provisions of Article 2(26) *et seq.* of Italian Law no. 335 of 8 August 1995, as subsequently amended and supplemented;
- for mandatory maternity leave, the provisions of the Italian Ministerial Decree of 12 July 2007;
- with regard to sick leave, the provisions of Article 1(788) of Italian Law no. 296 of 27 December 2006 and subsequent amendments.

During the period of mandatory maternity leave, the allowance paid by INPS according to Art. 5 of the Italian Ministerial Decree of 12 July 2007 is supplemented by the University up to the full amount of the research grant.

The grant will be paid in monthly instalments.

Art. 10

The data collected as part of the procedure referred to in Art. 5 are necessary to properly manage the selection procedure, for any subsequent management of the research grant and for purposes related to managing services provided by the University. The University of Udine is the Data Controller. At any time, the data subject may request access, rectification and, depending on the University's institutional purposes, cancellation and restriction of processing or oppose the processing of their data. The data subject can always lodge a complaint with the Italian Data Protection Authority. The complete disclosure is available on the University of Udine website in the "Privacy" section, accessible from the home page www.uniud.it Direct Link: <https://www.uniud.it/it/it/pagine-speciali/guida/privacy>

Art. 11

For all matters not expressly mentioned in this call for applications, refer to the regulations in force on the subject cited in the introduction and to the "Internal rules for awarding research grants pursuant to Italian Law no. 240 of 30 December 2010" of the University of Udine, issued by Rector's Decree no. 182 of 31 March 2021.

Art. 12

The procedure supervisor is Dr Sandra Salvador, Head of the Research Services Area of the University of Udine.

The Responsible office at the University of Udine is "Area Servizi per la Ricerca - Ufficio Formazione per la Ricerca", via Mantica n. 31 - 33100 Udine, Italia.

To request information about the call for applications, please complete the following form available on the University of Udine website:

https://helpdesk.uniud.it/SubmitSR.jsp?type=req&accountId=universityofudine&populateSR_id=42105



Attachment A

Responsabile scientifico della ricerca / Principal investigator:

Nome e cognome / Name and surname: Michele Morgante
Qualifica / Position: Professore Ordinario / Full Professor
Dipartimento / Department: Scienze Agroalimentari, Ambientali e Animali (DI4A) / Agricultural, Food, Environmental and Animal Sciences
Area MUR / Research field: 05 – Scienze Biologiche
Settore concorsuale e Settore scientifico disciplinare / Scientific sector: 05/I1; BIO/18 – Genetica

Titolo dell'assegnio di ricerca / Topic of the research fellowship "assegnio di ricerca":

I bandi sono consultabili dal sito dell'Ateneo, del MUR e di Euraxess / The calls are available on the University, MUR and Euraxess websites

Testo in italiano:

Analisi della regolazione genica a livello di singole cellule in vite.

Text in English:

Defining gene regulation at single cell resolution in grapevine.

Obiettivi previsti e risultati attesi del programma di ricerca in cui si colloca l'attività dell'assegnista di ricerca / Foreseen objectives and results of the research programme performed by the research fellow "assegnista di ricerca":

I bandi sono consultabili dal sito dell'Ateneo, del MUR e di Euraxess / The calls are available on the University, MUR and Euraxess websites

Testo in italiano:

Le analisi molecolari convenzionali forniscono dati di massa sul genoma o sul trascrittoma che non sono in grado di rivelare l'eterogeneità cellulare e, di conseguenza, di definire con precisione come le reti geniche orchestrano lo sviluppo degli organi. Questo progetto affronterà le questioni relative alla regolazione genica della vite profilando l'espressione genica e identificando le regioni cromatiniche aperte a livello delle singole cellule; ciò consentirà di definire elementi regolatori specifici del tipo cellulare, traiettorie di sviluppo e reti trascrizionali che orchestrano lo sviluppo e la funzione degli organi. Eseguiremo scRNA-seq e snATAC-seq su protoplasti e nuclei di foglie/bacche e li combineremo con i precedenti risultati ottenuti sui tessuti di foglie/bacche, dove l'analisi del trascrittoma, dell'accessibilità della cromatina, della modificazione degli istoni e dei siti di legame dei fattori di trascrizione hanno mostrato che una gran parte della variazione fenotipica sembra essere determinata da variazioni regolatorie piuttosto che codificanti e molte varianti hanno un effetto organo-specifico. Mediante approcci bioinformatici identificheremo cluster di cellule e geni, interpretando l'eterogeneità dei trascrittomi di singole cellule; successivamente, eseguiremo ibridazioni in situ per corroborare le annotazioni di tipo cellulare già previste e per identificare nuovi geni marcatori di tipo cellulare, necessari per la definizione dell'identità cellulare e per la validazione sperimentale dei dati scRNA-seq. La realizzazione di una mappa trascrittomica spazio-temporale e di accessibilità della cromatina a risoluzione di singola cellula delle bacche di vite rappresenta un progresso sostanziale nelle nostre attuali conoscenze, consentendo di collegare i profili di espressione genica ai processi cellulari e di sviluppo, scoprendo parte dei meccanismi molecolari della maturazione e fornendo lentamente la chiave nel mantenere uve e vino di alta qualità.

Il progetto affronterà questioni relative al controllo dell'espressione genica delineando l'espressione genica e identificando regioni di cromatina aperte a livello delle singole cellule, che consentono di definire elementi regolatori specifici del tipo cellulare, traiettorie di sviluppo e reti trascrizionali che



orchestrano lo sviluppo e la funzione degli organi in vite e ottenere una visione più approfondita dei circuiti regolatori rispetto a quella che siamo stati in grado di ottenere dall'analisi dei tessuti interi. Eseguiremo scRNA-seq per l'espressione genica e snATAC-seq per l'accessibilità della cromatina rispettivamente sui protoplasti e sui nuclei delle foglie e delle bacche, e li combineremo con precedenti analisi tissutali in bulk (RNA-seq, ChIP-seq per le modifiche degli istoni, ATAC-seq, BS-seq per la metilazione del DNA e DAP-seq per l'identificazione dei siti di legame dei fattori di trascrizione). Profilandone l'espressione genica e l'accessibilità della cromatina alla risoluzione di singole cellule, identificheremo i siti accessibili che mostrano un comportamento specifico per specifici tipi di cellula e supereremo le difficoltà correlate all'eterogeneità dei tessuti nell'identificare variazioni nei siti di cromatina aperta osservate in precedenti esperimenti di profilazione in bulk. Gli approcci bioinformatici sono essenziali per l'interpretazione dell'eterogeneità dei trascrittomi di singole cellule, nonché per l'identificazione di cluster cellulari e geni che sono espressi in modo differenziale tra cluster. Ci concentreremo sugli stessi 2 genotipi selezionati nel precedente progetto PRIN 2017, Rkatsiteli e Cabernet Franc, dove abbiamo disponibilità di sequenze genomiche complete specifiche per aplotipo e un patrimonio di conoscenze riguardanti l'identificazione di regioni e varianti regolatorie. Per ciascuna cultivar di vite, analizzeremo 3 campioni corrispondenti alla foglia giovane (YL), raccolta nello stesso stadio selezionato per le indagini PRIN 2017, e l'acino raccolto in due stadi di sviluppo, l'allegagione (FSB) e gli acini all'invaiaitura (VB). La scelta delle 3 combinazioni organo/stadio di sviluppo è guidata dalla necessità di analizzare lo stesso stadio (YL) già scelto per l'analisi PRIN 2017 e dal desiderio di seguire un organo (bacca) durante la maturazione (FSB e VB). Abbiamo deciso di analizzare 2 genotipi invece di aumentare il numero di organi/stadi di sviluppo perché siamo interessati alla variazione regolatoria e riteniamo che uno dei vantaggi della vite come sistema sia la presenza di elevati livelli di variabilità all'interno e tra le varietà. Con 2 genotipi possiamo esplorare fino a 4 diversi aplotipi e collegare i dati trascrittomici con i dati epigenetici sulle regioni cromatiniche aperte. I 2 genotipi sono stati scelti perché hanno una fenologia abbastanza sincrona, rappresentano una varietà bianca (Rkatsiteli) e una rossa (Cabernet Franc) e sono geneticamente molto distinti.

Il candidato prescelto sarà coinvolto principalmente nelle seguenti attività:

- estrazione dell'RNA per analisi RNA-seq in bulk;
- RNA-seq in bulk utilizzando la tecnologia Illumina;
- scRNA-seq utilizzando la tecnologia 10XChromium;
- isolamento dei nuclei per analisi ATAC-seq su singoli nuclei;
- analisi ATAC-seq di singoli nuclei utilizzando la tecnologia 10XChromium;
- analisi bioinformatiche per studiare la cis-regolazione dell'espressione genica e l'accessibilità della cromatina in funzione del tipo cellulare utilizzando analisi allele specifiche di dati scRNA-seq e dati ATAC-seq di singoli nuclei.

Text in English:

Conventional molecular analyses provide bulk genome or transcriptome data that are unable to reveal the cellular heterogeneity and, consequently, to precisely define how gene networks orchestrate organ development. This project will address questions related to grapevine gene regulation by profiling gene expression and identifying open chromatin regions at the individual cells level; this will allow to define cell-type specific regulatory elements, developmental trajectories and transcriptional networks orchestrating organ development and function. We will perform scRNA-seq and snATAC-seq on leaf/berry protoplasts and nuclei and combine them with the previous leaf/berry bulk tissues obtained results, where the analysis of transcripts, chromatin accessibility, histone modification and transcription factor binding sites showed that a large fraction of phenotypic variation appears to be determined by regulatory rather than coding variation and that many variants have an organ-specific effect. By bioinformatics approaches we will identify cell and gene clusters, interpreting the heterogeneity from single-cell transcriptomes; subsequently, we will perform in situ hybridizations to corroborate already predicted cell-type annotations and to identify new cell-type marker genes, required for the cell identity



definition, and for the experimental validations of scRNA-seq data. The realization of a single cell resolution spatiotemporal transcriptomic and chromatin accessibility map of grapevine berry represents a substantial advance in our current understanding, allowing to link gene expression profiles to cellular and developmental processes, uncovering part of the molecular mechanisms of ripening and slowly providing the key in maintaining high quality grapes and wine.

The project will address questions related to the control of gene expression by profiling gene expression and identifying open chromatin regions at the level of individual cells, which allow to define cell-type specific regulatory elements, developmental trajectories and transcriptional networks orchestrating organ development and function in grapevine and gain a more in-depth view on the regulatory circuitry than what we have been able to gain from the analysis of bulk tissues. We will perform scRNA-seq for gene expression and snATAC-seq for chromatin accessibility on leaf and berry protoplasts and nuclei, respectively, and combine them with previous bulk tissue analyses (RNA-seq, ChIP-seq for histone modifications, ATAC-seq, BS-seq for DNA methylation and DAP-seq for transcription binding site identification). By profiling gene expression and chromatin accessibility at single cell resolution, we will identify accessible sites showing a cell type specific pattern and overcoming the tissue heterogeneity related paucity of dynamic open chromatin sites seen in previous bulk profiling experiments. Bioinformatics approaches are essential for the interpretation of the heterogeneity from single-cell transcriptomes as well as the identification of cell clusters and genes that are differentially expressed between clusters. We will focus on the same 2 genotypes selected in the previous PRIN 2017 project, Rkatsiteli and Cabernet Franc, where we have availability of complete haplotype-specific genome sequences and a wealth of knowledge regarding the identification of regulatory regions and variants. For each grapevine cultivar, we will investigate 3 samples corresponding to young leaf (YL), collected at the same stage selected for the PRIN 2017 investigations, and the berry collected at two developmental stages, the fruit set (FSB) and the veraison berries (VB). The choice of the 3 organ/stage of development combinations is driven by the need to analyze the same stage (YL) that was already chosen for the PRIN 2017 analysis and the desire to follow one organ (berry) during ripening (FSB and VB). We decided to analyze 2 genotypes instead of increasing the number of organs/stages of development because we are interested in regulatory variation and we think one of the advantages of grapevine as a system is the presence of high levels of variability within and between varieties. With 2 genotypes we can explore up to 4 different haplotypes and link transcriptomic data with the epigenetic data on open chromatin regions. The 2 genotypes were chosen because they have a quite synchronous phenology, represent a white (Rkatsiteli) and a red (Cabernet Franc) variety and are genetically very distinct.

The successful candidate will be involved mainly in the following activities:

- RNA extraction for bulk RNA-seq analysis;
- bulk RNA-seq using the Illumina technology;
- scRNA-seq using the 10XChromium technology;
- nuclei isolation for ATAC-seq analysis on single nuclei;
- single nuclei ATAC-seq analysis using the 10XChromium technology;
- bioinformatic analyses to study cell type-dependent cis-regulation of gene expression and chromatin accessibility using allele specific analyses of scRNA-seq data and single nuclei ATAC-seq data.

Struttura dell'Università di Udine presso la quale verrà sviluppata l'attività di ricerca / Department or other structure of the University of Udine where research activities will be carried out:

Dipartimento di Scienze Agroalimentari, Ambientali e Animali (DI4A) / Department of Agricultural, Food, Environmental and Animal Sciences



Importo dell'assegno di ricerca (al lordo oneri carico assegnista) / Total grant gross for the research fellowship:

€ 20.425,00

Durata dell'assegno di ricerca / Duration of the research fellowship "assegno di ricerca":

12 mesi / months

Finanziamento / Financed by:

La copertura finanziaria graverà sul progetto PRIN 2022 – “Defining gene regulation and coregulation at single cell resolution in grapevine”; Prot. n. 2022JRJPWM. Decreto di finanziamento n. 970 del 30/06/2023 - Settore LS2. Codice CUP G53D23001500006. Ministero dell'Università e della Ricerca (Finanziato dall'Unione Europea, NextGenerationEU).

Requisiti di ammissione / Minimum qualifications necessary:

- Possesso di un diploma di laurea vecchio ordinamento (ante decreto 3 novembre 1999 n. 509) o di laurea specialistica/magistrale (ex decreto 3 novembre 1999 n. 509 e decreto 22 ottobre 2004 n. 270) o titolo equivalente conseguito all'estero;
- possesso di un curriculum scientifico professionale idoneo allo svolgimento dell'attività di ricerca contemplata.
- University degree obtained before Decree n. 509 of 3 November 1999 or specialistic/Master's degree (post decree n. 509 of 3 November 1999 and decree n. 270 of 22 October 2004) or equivalent degree obtained abroad;
- professional scientific curriculum suitable for the research activity above mentioned.

Procedura selettiva / Competition procedure:

Valutazione per titoli e colloquio / Evaluation of titles and oral exam

I risultati della valutazione dei titoli saranno resi noti agli interessati nel corso del colloquio / The evaluation of the qualifications will be disclosed to candidates during the interview

Calendario del colloquio / Calendar of the oral exam	Modalità / Modality	Videoconferenza / Videoconference
	Data / Date	8 aprile / April 2024
	Ora / Time	15:00 / 3:00 pm (Italian time)
	Luogo / Place	-

Per sostenere il colloquio i candidati devono esibire un valido documento di riconoscimento. / Candidates must come to the interview with a valid identity document.

Eventuali variazioni saranno rese note esclusivamente mediante pubblicazione all'albo ufficiale on line dell'Ateneo / Any change will be made public solely through publication on the University web site http://web.uniud.it/ateneo/normativa/albo_ufficiale



Nota / Note: Le indicazioni sulle modalità di svolgimento della prova in modalità telematica saranno inviate ai candidati con successiva email da parte del Presidente della Commissione. Ai fini dell'identificazione e a pena di esclusione dalla procedura selettiva, ciascun candidato è tenuto ad identificarsi prima che il colloquio abbia inizio, esibendo il medesimo documento di identità allegato alla domanda di ammissione al concorso. Il candidato deve risultare reperibile nella giornata e all'orario indicato sul bando. Il mancato collegamento, l'irreperibilità del candidato nel giorno o nell'orario stabilito o la mancata esibizione del documento identificativo, sono motivo di esclusione dalla procedura selettiva. La registrazione delle prove orali è vietata. L'Ateneo adotterà pertanto tutti i provvedimenti in suo potere per tutelare i soggetti coinvolti qualora venissero diffuse tramite internet – o altri mezzi di diffusione pubblica – video, audio o immagini della procedura selettiva. / Instructions on how the video interviewing will be conducted will be provided to candidates by the Chairman of the Examining Board via email. For identification purposes, each candidate is required to identify him/herself before the interview by exhibiting the same identification document attached to the application. Candidates must be available on the day and time established by the call for applications. Failure of the candidate to establish a video connection, the unavailability of the candidate on the day and/or time established or failure of the candidate to provide the required identification document are all grounds for exclusion from the selection procedure. Recording of the video interviews is prohibited. The University will adopt all the measures within its power to protect all personnel involved as a result of dissemination via the internet or via other forms of public dissemination, of videos, audios or other pictures of the selection procedures.

Commissione giudicatrice / Examining Board:

Nome e Cognome	Qualifica	SSD	Università
Membri Effettivi / Permanent members			
Michele Morgante	PO	BIO/18	Università degli Studi di Udine
Fabio Marroni	PA	BIO/18	Università degli Studi di Udine
Gabriele Magris	RTD	AGR/07	Università degli Studi di Udine
Membri Supplenti / Temporary members			
Emanuele De Paoli	PA	AGR/07	Università degli Studi di Udine
Alberto Biscontin	RTD	BIO/18	Università degli Studi di Udine