Decree of the Rector n. 1131 of 06/11/2023
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. 1131 of 06/11/2023). 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 “Design of prevention and control strategies against kiwifruit vine decline syndrome (KVDS)” SSD: AGR/12 (principal investigator, Paolo Ermacora)

Research grant co-funded by the resources of the project PRIN 2022 - Prot. n. 2022LLJH7E

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.

RESEARCH SERVICES AREA
Research Training Office
Department Head: Sandra Salvador
Procedure Supervisor: Sandra Salvador
Procedure Compiler: Francesca Mion
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 November 9, 2023 at 2:00 pm (Italian time) and ends on November 28, 2023 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/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
Responsabile scientifico della ricerca / Principal investigator:
Nome e cognome / Name and surname: Paolo Ermacora
Qualifica / Position: Ricercatore Universitario / Researcher
Dipartimento / Department: Scienze Agroalimentari, Ambientali e Animali (DI4A) / Agricultural, Food, Environmental and Animal Sciences
Area MUR / Research field: 07 – Scienze agrarie e veterinarie
Settore concorsuale e Settore scientifico disciplinare / Scientific sector: 07/D1; AGR/12 – Patologia vegetale

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”:

Testo in italiano: Sviluppo di strategie per il controllo della moria del kiwi (Kiwifruit vine decline syndrome, KVDS).

Text in English: Design of prevention and control strategies against kiwifruit vine decline syndrome (KVDS).

Il Dipartimento di Scienze Agroalimentari, Ambientali e Animali (DI4A) dell’Università degli Studi di Udine ha avviato la ricerca su KVDS nel 2017, poco dopo la comparsa della malattia in Friuli Venezia Giulia. Due progetti di ricerca sono attualmente finanziati presso il DI4A per studiare KVDS: un progetto PRIN “Unveiling the plant exposome to dissect a multifactorial disease: the kiwifruit vine decline” finanziato dall’Unione Europea, e un progetto Ager SOS KIWI - From SOil to SOil: origin and remediation to Kiwifruit Vine Decline Syndrome.

Nelle attività connesse al presente assegno di ricerca verranno perseguiti due scopi principali e tra loro interconnessi. L’obiettivo prioritario sarà lo sviluppo e la validazione di sistemi diagnosticci contro gli agenti causalì di KVDS, al fine di migliorarne la diagnosi precoce e la conoscenza sugli aspetti epidemiologici della sindrome stessa. Il secondo obiettivo sarà lo sviluppo di strategie di prevenzione e controllo di KVDS basate su tecniche sostenibili per una corretta gestione della malattia.

Per il primo obiettivo, considerando il numero di agenti patogeni associati alla KVDS, il ricorso a sistemi diagnostici multipatogeno contribuiranno a semplificare le procedure di test. Tra i metodi...
diagnostici, la multiplex-PCR e la real time PCR sono i più promettenti. Il disegno di primer specifici per i microorganismi più rilevanti sarà implementato utilizzando strumenti online (ad esempio Primer3, programma di progettazione di primer) su regioni genomiche target variabili come la regione spaziatrice (ITS rDNA), il fattore di allungamento 1-alfa (EF1a), la proteina heat-shock 90 (HSP90) e la proteina ypt1 correlata a Ras (ypt). Successivamente, la specificità dei primer e di conseguenza dei sistemi diagnostici sviluppati sarà testata sul DNA estratto da collezioni di colture di cepi strettamente correlati. Le coppie di primer più performanti verranno combinate per sviluppare saggi multiplex-PCR per alcune specie dei generi Phytophthora e Phytopythium. I protocolli di diagnosi sviluppati saranno validati su materiale vivastico in varie fasi della propagazione e su campioni di campo al fine di migliorare gli standard fitosanitari del materiale di propagazione e di rilevare precocemente la presenza di agenti KVDS nei frutti appena piantati o in aree ancora indenni dalla malattia. Inoltre, i protocolli diagnostici per i patogeni associati a KVDS saranno utili per valutare la presenza di questi patogeni non solo in pianta ma anche in diversi tipi di terreno e condizioni, ad esempio miscela di torba utilizzata per la radicazione delle piantine nei vivaio; terreni da destinare a impianti di kiwi, terreni di impianti adulti.

Per il secondo obiettivo, le strategie di prevenzione e controllo del KVDS valutate in questa ricerca saranno focalizzate sull'uso di agenti di biocontrollo (BCAs). Verranno eseguiti test di antibiosi in vitro e in vivo contro gli agenti di KVDS oltre che con agenti di biocontrollo già noti in letteratura per altri patosistemi, anche con agenti di biocontrollo disponibili nella collezione microbiologica dell'Università di Udine. I test in vitro saranno eseguiti sia su Potato Dextrose Agar (PDA) che su Rhizosphere Mimicking Agar (RMA) per riprodurre un ambiente quanto più simile possibile alla rizosfera vegetale. Questi risultati verranno utilizzati per selezionare i migliori agenti di biocontrollo che saranno combinati in comunità microbiche e testati in pianta (in vivo) in condizioni controllate per la loro azione di prevenzione di KVDS. Misure biométriche e analisi molecolari (ad esempio qPCR seguita da analisi HRM) verranno eseguite nel tempo per valutare l'effetto dei BCAs sull'aspetto e sulla gravità di KVDS e per monitorare la presenza e la persistenza dei BCAs e degli agenti patogeni nella rizosfera delle piante (Martini et al., 2015). Anche le tecniche basate sulla microbiologia (ad esempio la microscopia a fluorescenza) potrebbero essere utilizzate come strumento aggiuntivo per rilevare gli microrganismi inoculati e valutare i loro pattern di colonizzazione.

Da questo progetto ci si aspetta di ottenere nuove conoscenze per l'individuazione specifica di agenti associati alla KVDS e la comprensione di alcuni tratti epidemiologici di questa sindrome. La disponibilità di protocolli per la diagnosi specifica degli agenti di KVDS consentirà di migliorare la qualità del materiale di propagazione e di limitare la diffusione di agenti patogeni associati a KVDS nei nuovi impianti. Inoltre, la disponibilità di strumenti diagnostici molecolari migliorerà il monitoraggio KVDS nei frutti già esistenti. Gli studi sugli agenti di biocontrollo forniranno un quadro dei potenziali agenti di biocontrollo in grado di prevenire l'insorgenza o attenuare gli effetti di KVDS.

**Bibliografia:**


**Text in English:**

Since 2012, the Italian kiwifruit supply chain has been suffering due to the quick spread of a disease named Kiwifruit Vine Decline Syndrome (KVDS). The syndrome was first reported in Veneto (Tacconi et al., 2015), from which it initially spread in northern Italy (Friuli Venezia Giulia from 2013 to 2014 and Piedmont 2015), to successively reach the production areas of Lazio and Calabria in 2017. Attempts to...
identify the pathogens associated with the syndrome have led to the identification of different microorganisms including oomycetes (Donati et al., 2020; Savian et al., 2020). Some species of the genera *Phytophthorium* and *Phytophthora* seem to be the most frequently associated with the syndrome and, if inoculated on asymptomatic plants, can induce the syndrome under favorable abiotic conditions, like waterlogging events (Prencipe et al., 2020; Savian et al., 2021; Savian et al., 2022).

The Department of Agricultural, Food, Environmental and Animal Sciences (DI4A) of the University of Udine started research on KVDS in 2017, shortly after the disease appeared in Friuli Venezia Giulia. Two competitive research projects are currently funded and are ongoing at DI4A to study KVDS: PRIN “*Unveiling the plant exposome to dissect a multifactorial disease: the kiwifruit vine decline*” funded by European Union Next Generation EU, and Ager SOS KIWI - From SOil to Soil: origin and remediation to KIWifruit Vine Decline Syndrome.

In this research grant two main and interconnected purposes will be pursued. The first goal will be the development and validation of diagnostic systems against the causative agents of KVDS, in order to improve early diagnosis and knowledge on the epidemiological traits of the syndrome. The second goal will be the development of KVDS prevention and control strategies based on sustainable techniques for a proper management of the disease.

For the first aim, considering the number of pathogens associated with KVDS, multipathogen diagnostic systems will contribute to simplify testing procedures. Among the diagnostic methods, multiplex-PCR and real-time PCR are the most promising. The design of specific primers for the most relevant species will be implemented using online tools (e.g., Primer3, primer design program) on variable target genomic regions such as internal transcribed spacer (ITS rDNA), elongation factor 1-alpha (EF1a), shock protein 90 (HSP90) and Ras-related protein ypt1 (ypt). Successively, primer specificity will be tested on DNA extracted from culture collections of closely related strains. The best performing primer pairs will be combined in order to develop multiplex-PCR assays for *Phytophthora* and *Phytophthorium* species. The developed detection protocols will be validated on propagation material and field samples in order to improve the quality of propagation material with the aim to early detect the presence of KVDS agents in newly planted orchards/areas. Moreover, diagnostic protocols for KVDS associated pathogens will be useful for assessing the presence of these pathogens in different types of soil and conditions i.e., peat mix used for rooting and plantlets in nurseries; existing or new kiwifruit plantations.

For the second aim, the KVDS prevention and control strategies evaluated in this research will be focused on the use of biocontrol agents. Within the panel of biocontrol agents available in the microbiological collection of the University of Udine, *in vitro* and *in vivo* tests of antibiosis against KVDS agents, will be performed. *In vitro* test will be performed both in Potato dextrose agar (PDA) than in Rhizosphere Mimicking Agar (RMA) to reproduce an environment similar to the plant rhizosphere. These results will be used to select a panel of potential biocontrol agents. These microorganisms will be combined into microbial communities and tested *in planta* (*in vivo*) under controlled conditions for their action in preventing KVDS. Biometric measurements and molecular analyses (e.g., qPCR followed by HRM analysis) will be performed over time to evaluate the effect of BCAs on KVDS appearance and severity and to track the presence and persistence of BCAs and pathogens in the plant rhizosphere (Martini et al. 2015). Microscopy-based techniques (e.g., fluorescence microscopy) could also be used as an additional tool to detect the inoculated microorganisms and to evaluate their colonization patterns.

From this project it is expected to get novel insights for the specific detection of KVDS associated agents and the understanding of some epidemiological traits of this syndrome. The availability of protocols for the specific detection of KVDS agents will allow to improve the quality of propagation material and to prevent the spread of KVDS-associated pathogens in new plantations. Furthermore, the availability of molecular diagnostic tools will improve KVDS monitoring in established orchards. Studies on biocontrol agents will provide a picture of potential biocontrol agents capable of counteracting KVDS and lay the bases for their use in the field according to integrated pest management strategies.
References:


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) - laboratorio di biologia molecolare, micologia, serra sperimentale di Piazzale Kolbe, Udine. / Department of Agricultural, Food, Environmental and Animal Sciences - Laboratory of molecular biology, mycology, experimental greenhouse of Piazzale Kolbe, Udine.

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

€ 68.090,00

Durata dell’assegno di ricerca / Duration of the research fellowship “assegno di ricerca”:

36 mesi / months

Finanziamento / Financed by:

La copertura finanziaria graverà su:
- progetto PRIN 2022 – “Unveiling the plant exposome to dissect a multifactorial disease: the kiwifruit vine decline”; Prot. n. 2022LLJH7E. Decreto di finanziamento n. 1048 del 14/07/2023 - Settore LS9. Codice CUP G53D23004190006. Ministero dell’Università e della Ricerca (Finanziato dall’Unione Europea, NextGenerationEU);
- progetto AGER “From SOil to Soil: origin and remediation to KIWIfruit Vine Decline Syndrome (SOS-KIWI)” - responsabile scientifica: prof.ssa Marta Martini. CUP: G23C23001650007.

Requisiti di ammissione / Minimum qualifications necessary:

- Possesso del titolo di Dottore di ricerca o titolo equivalente conseguito all’estero;
- possesso di un curriculum scientifico professionale idoneo allo svolgimento dell’attività di ricerca contemplata.
- Research doctorate or equivalent qualification 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

<table>
<thead>
<tr>
<th>Calendario del colloquio / Calendar of the oral exam</th>
<th>Modalità / Modality</th>
<th>Videoconferenza / Videoconference</th>
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<tr>
<td>Data / Date</td>
<td>6 dicembre / December 2023</td>
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<tr>
<td>Ora / Time</td>
<td>16:00 / 4:00 pm (Italian time)</td>
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<td>Luogo / Place</td>
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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:

<table>
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<tr>
<th>Nome e Cognome</th>
<th>Qualifica</th>
<th>SSD</th>
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