Decree of the Rector n. 1299 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. 1299 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 “CRISPR-Cas9 mediated genome editing for defensine introduction in kiwifruit” SSD: AGR/03 (principal investigator, Guido Cipriani)

Research grant co-funded by the resources of the project PRIN 2022 - Prot. n. 2022BE543B

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 document\(^1\);
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 14, 2023 at 2:00 pm (Italian time) and ends on January 25, 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/](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&accountld=universityofudine&populateSR_id=42105
Attachment A

Responsabile scientifico della ricerca / Principal investigator:

Nome e cognome / Name and surname: Guido Cipriani
Qualifica / Position: Professore Ordinario / Full Professor
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/B2; AGR/03 – Arboricoltura generale e coltivazioni arboree

Titolo dell’assegno di ricerca / Topic of the research fellowship “assegno di ricerca”:

Testo in italiano:
Modifica del genoma mediata da CRISPR-Cas9 per l'introduzione di difensine in kiwi.

Text in English:
CRISPR-Cas9 mediated genome editing for defensine introduction in kiwifruit.

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:
Il kiwi è un genere a cui appartengono numerose specie ma poche sono di interesse commerciale. Tuttavia in alcune specie sono stati documentati lavori riguardanti i caratteri di interesse pomologico e di resistenza alle malattie emergenti. Queste caratteristiche sono oggetto di studio da molti anni e dall'inizio degli anni '80 è in corso presso l'Università di Udine un programma di miglioramento genetico del kiwi. Negli ultimi anni al tradizionale programma di miglioramento genetico, finalizzato alla ricerca di varietà con caratteristiche innovative dei frutti, si sono affiancati nuovi programmi per la ricerca di selezioni resistenti a malattie emergenti, come il cancro batterico del kiwi.

Rispetto ad altri approcci di editing genomico, il sistema CRISPR/Cas9 è particolarmente utile per l'editing genetico multiplex, perché la sua specificità target si basa su molecole di RNA guida singole e corte (sgRNA). Alcuni studi sono già stati condotti nelle cultivar femminili diploidi Actinidia chinensis “Hongyang” e “Hort16A”. I geni bersaglio per l'editing del genoma potrebbero anche essere identificati dall'analisi della mappatura QTL in corso.

Negli ultimi anni, gli approcci di modifica del genoma sono diventati comuni nelle piante. Tuttavia, negli alberi da frutto non è possibile rimuovere il CRISPR/CAS9 dopo la trasformazione mediante autofecondazione e selezione dei trasformanti per ottenere piante modificate e prive di sequenze plasmidiche. Ciò rappresenta una seria limitazione per l’applicazione della tecnica. Supereremo questo problema introducendo CAS9 e sgRNA clonati in un plasmide adatto all’espressione in pianta che ospita il sistema Flp/FRT al fine di rimuovere tutte le sequenze di T-DNA inserite nella pianta e contenenti il sistema CRISPR/Cas9 e il gene marcatore di selezione. I costrutti verranno consegnati tramite Agrobacterium tumefaciens nei piccioli delle foglie di kiwi. Successivamente, le linee modificate rigenerate tramite embriogenesi somatica verranno valutate per l'integrazione del T-DNA e per l'escissione di sequenze indesiderate mediante il sistema Flp/FRT.
Recentemente è stato sviluppato un nuovo approccio in cui i germogli geneticamente modificati sono stati indotti direttamente su piante coltivate nel terreno o coltivate in vitro, attraverso la co-somministrazione di reagenti di modificazione genetica e regolatori dello sviluppo (DR). Per ottenere germogli modificati privi di transgeni, combineremo l'uso del plasmide sopra descritto con costrutti che esprimono geni DR quali wuschel (WUS) sotto il controllo del sistema Flp/FRT.

Lo scopo della nostra ricerca sui kiwi è raggiungere la resistenza al cancro trasformando varietà commerciali di actinidia con AMP altamente efficaci. Come descritto in Hao et al, i risultati dello screening hanno mostrato che D2A21 è uno dei peptidi più efficaci contro diverse specie batteriche. Pertanto, come primo passo, la sequenza codificante D2A21 verrà sintetizzata e clonata in un vettore binario per la trasformazione delle piante. CAS9 e gli sgRNA saranno clonati in un plasmide adatto per l'espressione in piante che ospitano il sistema Flp/FRT.

Infine, le piante rigenerate di kiwi verranno testate per verificare la mutazione on-target mediante amplificazione PCR della regione genomica di interesse, clonazione e sequenziamento, e per verificare quali modifiche siano avvenute a livello della sequenza nucleotidica del gene. Le mutazioni fuori bersaglio verranno valutate anche sottoponendo le linee più interessanti ad analisi di sequenziamento dell'intero genoma.

Risultati attesi:
- perfezionare il sistema Flp/FRT nel kiwi per rimuovere tutte le sequenze di T-DNA;
- introduzione della difesa tramite editing e controllo del genoma CAS9;
- induzione di resistenza o tolleranza al PSA.

Text in English:
Kiwifruit is a genus to which numerous species belong but few are of commercial interest. However, characters of pomological interest and resistance to emerging diseases have been documented in some species. These characteristics have been the subject of study for many years and a breeding program for kiwifruit has been underway at the University of Udine since the early 1980s. In recent years, the traditional genetic breeding program, aimed at researching varieties with innovative fruit characteristics, has been joined by new programs for the research of selections resistant to emerging diseases, such as bacterial canker of kiwifruit.

Compared to other genome editing approaches, the CRISPR/Cas9 system is particularly useful for multiplexed gene editing, because its target specificity is based on short and single guide RNA molecules (sgRNA). Some studies have already been conducted in the diploid Actinidia chinensis female cultivars “Hongyang” and “Hort16A”. Target genes for genome editing could also be identified from QTL mapping analysis underway.

In recent years, genome editing approaches have become common in plants. However, in fruit trees it is not possible to remove the CRISPR/Cas9 after transformation by self-fertilisation and selection of transformants to obtain plants edited and free of plasmid sequences. This represents a serious limitation for the application of the technique. We will overcome this issue by introducing CAS9 and sgRNAs cloned in a plasmid suitable for expression in plant harbouring the Flp/FRT system in order to remove all T-DNA sequences inserted in the plant and containing the CRISPR/Cas9 system and the selection marker gene. Constructs will be delivered via Agrobacterium tumefaciens into kiwifruit leaf petioles. Then, edited lines regenerated via somatic embryogenesis will be assessed for T-DNA integration and for the excision of undesired sequences by Flp/FRT system.

A new approach has been recently developed in which gene-edited shoots were induced directly on soil grown or in vitro-cultured plants, through co-delivering of gene-editing reagents and developmental regulators (DR). In order to obtain edited shoots transgene-free, we will combine the use of the
A plasmid described above with constructs expressing DR genes such as wuschel (WUS) under the control of the Flp/FRT system.

The aim of our research in kiwifruit is to achieve canker disease resistance by transforming commercial varieties of actinidia with highly effective AMPs. As described in Hao et al, screening results showed that D2A21 is one of the most effective peptides against several bacterial species. Therefore, as a first step, the sequence coding D2A21 will be synthesised and cloned into a binary vector for plant transformation. CAS9 and sgRNAs will be cloned in a plasmid suitable for expression in plants harbouring the Flp/FRT system.

Finally, the regenerated plants of kiwifruit will be tested for checking the on-target mutation by PCR amplification of the genomic region of interest, cloning and sequencing, and for verifying which modifications have occurred at the level of the gene nucleotide sequence. Off-target mutations will also be evaluated by subjecting the most interesting lines to whole genome sequencing analysis.

The transformed plants will be artificially inoculated with bacterial suspensions and the induced resistance/tolerance will be evaluated by observing the symptoms of the disease and by molecular analysis.

Deliverable:
- perfect the Flp/FRT system in kiwifruit in order to remove all T-DNA sequences;
- defensine introduction via CAS9 genome editing and checking;
- resistance induction or tolerance to PSA.

La copertura finanziaria graverà su:
- Progetto PRIN 2022 – “Smart Biotechnology for Sustainable Berry Cultivation (SMARTBERRY)”; Prot. n. 2022BE543B. Decreto di finanziamento n. 1048 del 14/07/2023 - Settore LS9. Codice CUP G53D23003960006. Ministero dell'Università e della Ricerca (Finanziato dall'Unione Europea, NextGenerationEU);
- Convenzione di collaborazione per attività di ricerca stipulata con l’ERSA per lo “Sviluppo e l’adattamento del kiwi al cambiamento climatico e alle sindromi emergenti”, responsabile scientifico prof. Guido Cipriani. CUP F23C23000300002.
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

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<thead>
<tr>
<th>Calendario del colloquio / Calendar of the oral exam</th>
<th>Modalità / Modality</th>
<th>Data / Date</th>
<th>Ora / Time</th>
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<tr>
<td>In presenza / On site</td>
<td>5 febbraio / February 2024</td>
<td>14:30 / 2:30 pm (Italian time)</td>
<td>Sala riunioni “Sala dei Cereali” (secondo piano) - Dipartimento di scienze agroalimentari, ambientali e animali (DI4A), Università degli Studi di Udine - via delle Scienze, 206 – 33100 Udine</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

I candidati impossibilitati a partecipare alla prova orale presso la sede possono chiedere alla Commissione giudicatrice di svolgere il colloquio in videoconferenza, allegando alla domanda di partecipazione alla selezione istanza motivata. / Candidates unable to attend the interview at the University of Udine, may request to the Examining board to take the interview by video conference, attaching the request to the online application.

Commissione giudicatrice / Examining Board:

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<th>Qualifica</th>
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<td><strong>Membri Effettivi / Permanent members</strong></td>
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<td>Guido Cipriani</td>
<td>PO</td>
<td>AGR/03</td>
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<td>Paolo Sivilotti</td>
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<td>Rachele Falchi</td>
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<td>Gloria De Mori</td>
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