Decree of the Rector n. 1183 of 17/11/2023
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. 1183 of 17/11/2023). 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 Notice for the award of 1 research grant for carrying out research activities at the
University of Udine on the following subject: “Biomimetic catalizers between two and three
dimensions: effects of the second-neighbour coordination sphere” SSD: FIS/03 (principal
investigator, Paolo Giannozzi).

Research fellowship financed with the resources of the research project PRIN 2022 PNRR, Prot.
n. P2022B3WCB, titled “Shedding light where 2D materials go 3D: energy transfer and second
coordination sphere at biomimetic model surfaces (2Dto3D)”. Public call No. 1409 of 14/09/2022 –
PRIN 2022 PNRR M4C2 Inv. 1.1. CUP G53D23007020001.

Art. 1

A selection procedure is hereby announced for the award of 1 research grant at the University of
Udine, as identified in Attachment A which constitutes an integral and substantial part of this call.
The research grant is linked to the research project and is subject and conditioned upon the relative
funding.
Specifically, the project is placed within the context of the Italian National Recovery and Resilience Plan
(i.e., PNRR) – Mission 4: Education and research, Component 2: From research to business, Investment 1.1:
Fund for the National Research Programme (PNR) and Research Projects of Significant National Interest (PRIN),
funded by the EU-Next GenerationEU. Project PRIN 2022 PNRR, Prot. n. P2022B3WCB, titled “Shedding light where 2D materials go 3D: energy transfer and second
coordination sphere at biomimetic model surfaces (2Dto3D)”. CUP: G53D23007020001.

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 activities pertaining to this research fellowship will be monitored for compliance with the PNRR’s Do No Significant Harm principle (hereinafter DSH), that is, they will not cause significant harm to the environment.

This call guarantees equal generational, gender and territorial opportunities.

The research findings resulting from the fellowship, as well as the related data, will be published in compliance with the Open Science and FAIR Data principles.

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](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 Bachelors, specialistic or Masters, 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;

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.

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 23, 2023 at 2:00 pm (Italian time) and ends on January 16, 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.

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

Responsabile scientifico della ricerca / Principal investigator:
Nome e cognome / Name and surname: Paolo Giannozzi
Qualifica / Position: Professore Associato / Associate Professor
Dipartimento / Department: Scienze Matematiche, Informatiche e Fisiche (DMIF) / Mathematics, Computer Science and Physics
Area MUR / Research field: 02 - Scienze Fisiche
Settore concorsuale e Settore scientifico disciplinare / Scientific sector: 02/B2; FIS/03 - Fisica della materia

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:
Catalizzatori biomimetici fra due e tre dimensioni: effetti della sfera di coordinazione dei secondi vicini.

Text in English:
Biomimetic catalizers between two and three dimensions: effects of the second-neighbour coordination sphere.

Obiettivi previsti e risultati attesi del programma di ricerca in cui si colloca l’attività dell’assegnsita di ricerca / Foreseen objectives and results of the research programme performed by the research fellow “assegnsita 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:
Lo scopo del progetto PRIN PNRR per il quale questa posizione è bandita è di comprendere le proprietà di catalizzatori modello biomimetici a singolo atomo aventi un carattere sia bidimensionale (2D) che tridimensionale (3D). Tale obbiettivo può essere raggiunto solo tramite una combinazione di tecniche sperimentali e di simulazioni da principi primi, inizialmente in condizioni di ultra alto vuoto (UHV), successivamente in condizioni più realistiche (in particolare, in presenza di solvente). La produzione dei campioni e le misure sperimentali con varie tecniche saranno fatte dall’unità sperimentale del Prof. Vesselli presso l’Università di Trieste e lo IOM-CNR. La posizione bandita qui si occuperà dell’analisi teorica e delle simulazioni numeriche da principi primi (teoria del funzionalità densità, DFT, ed estensioni), in stretta collaborazione con il partner sperimentale.

I catalizzatori ai quali siamo interessati sono formati per auto-assemblaggio di molecole metallorganiche su materiali 2D. Le eterostrutture funzionali che ne risultano contengono siti catalitici attivi di singolo atomo, che possono essere adattati a funzionare come materiali per applicazioni fotovoltaiche ed energetiche. Dato che l’attività catalitica che si vuole ottenere è spesso già presente in natura, è conveniente seguire un approccio “bio-mimetico”, cioè: tramite opportune scelte dei substrati e delle molecole metallorganiche, produrre sistemi che imitano la struttura e sperabilmente anche le funzionalità di siti biologici attivi di enzimi, come ad esempio quelli responsabile della dissociazione dell’acqua nella fotosintesi.

Una via promettente suggerita dalla natura è quindi l’uso come “mattoni” di molecole contenenti anelli tetrapirrolici piatti con un atomo metallico al centro. La relazione fra questi materiali sintetici e la loro...
The goal of the PRIN-PNRR project for which this position is advertised is to understand the properties of biomimetic single-atom model catalysts that have both a two-dimensional (2D) and a three-dimensional (3D) character. Such a goal can be achieved only via a combination of experimental techniques and first-principle simulations, in ultra-high-vacuum (UHV) conditions first, under more realistic conditions (notably in the presence of a solvent) at a later stage. Fabrication and experimental measurements with various techniques will be performed by the experimental unit of Prof. Vesselli at University of Trieste and IOM/CNR. The recipient of this position will perform the theoretical analysis and numerical simulations using first-principle techniques (density-functional theory, DFT, and extensions), in close collaboration with the experimental partner.

The catalysters we are interested in are formed by self-assembly of metal-organic molecules over 2D materials, yielding functional heterostacks. These contain single-atom active catalytic sites, that can be tuned e.g., for photovoltaic and photocatalytic energy applications. Since the catalytic activity we want to achieve is often already available in nature, it is convenient to follow a "bio-mimetic" approach, that is: by means of a suitable choice of the substrate and metal-organic molecules, produce systems that mimic the structure and hopefully the function of biological active enzymatic sites, such as e.g., those responsible for water splitting in photosynthesis.

Thus, a promising path suggested by nature is to use as building blocks molecules containing flat tetrapyrroles rings with a catalytic atom in the center. The link between these synthetic materials and their biochemical counterpart is however far from obvious. The catalytic activity of enzymatic sites depends upon a delicate balance of the geometrical structure and of electronic states of the active sites, heavily involving surrounding atoms as well. It is even questionable whether the term biomimetic is ultimately appropriate, both for limitations in accessing a detailed, atomic-level description at ambient conditions and for the intrinsic limits of 2D materials in reproducing the 3D local functional second-coordination sphere of natural biochemical pockets. We will therefore tackle the role of the latter, by synthesizing a model 2D material based on the 3D single-atom (Co) reaction sites of cobalamin (vitamin B12) and by investigating lateral, support (gold, graphene), ligands interactions, and at a later stage solvents and light (dynamic) interactions, at the fundamental level.

The specific objectives and expected results for this position include: the identification of the minimal theoretical models that correctly reproduce experimental findings in UHV; the determination of the geometric and electronic structures of the 2D layers of cobalamin on Au(111) and graphene/Ir(111) in

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RESEARCH SERVICES AREA
Research Training Office
Department Head: Sandra Salvador
Procedure Supervisor: Sandra Salvador
Procedure Compiler: Francesca Mion
UHV, with special attention to the role of the second coordination sphere; the effects of the extension to more realistic conditions (e.g. presence of solvent); finally, the study of some basic reactions involving O2 and CO2 interacting with the active catalytic site.

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 Matematiche, Informatiche e Fisiche (DMIF) / Department of Mathematics, Computer Science and Physics.

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

€ 47,114,25

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

18 mesi / months

Finanziamento / Financed by:


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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<tr>
<th>Calendario del colloquio / Calendar of the oral exam</th>
<th>Modalità / Modality</th>
<th>Videoconferenza / Videoconference</th>
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<td>Ora / 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:

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<th>Qualifica</th>
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<td><strong>Membri Effettivi / Permanent members</strong></td>
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<td>Paolo Giannozzi</td>
<td>PA</td>
<td>FIS/03</td>
<td>Università degli Studi di Udine</td>
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<td>Erik Vesselli</td>
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<td>Maria Peressi</td>
<td>PO</td>
<td>FIS/03</td>
<td>Università degli Studi di Trieste</td>
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<td><strong>Membri Supplenti / Temporary members</strong></td>
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<td>Federico Fogolari</td>
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<td>Università degli Studi di Udine</td>
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<td>Miguel Angel Soler Bastida</td>
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