Decree of the Rector n. 982 of 05/10/2023
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. 982 of 05/10/2023). 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 “Study of feed efficiency and methane emissions in Simmental cattle” SSD: AGR/18 (principal investigator, Alberto Romanzin)

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

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;

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.

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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 October 12, 2023 at 2:00 pm (Italian time) and ends on November 3, 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/](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 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](http://www.uniud.it) Direct Link: [https://www.uniud.it/it/it/pagine-speciali/guida/privacy](https://www.uniud.it/it/it/pagine-speciali/guida/privacy)

Art. 11

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

Art. 12

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

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

To request information about the call for applications, please complete the following form available on the University of Udine website: [https://helpdesk.uniud.it/SubmitSR.jsp?type=req&accountId=universityofudine&populateSR_id=42105](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: Alberto Romanzin  
Qualifica / Position: Ricercatore a tempo determinato / Researcher  
Dipartimento / Department: Scienze agroalimentari, ambientali e animali / Agricultural, Food, Environmental and Animal Sciences  
Area MUR / Research field: 07 – Scienze agrarie e veterinarie  
Settore concorsuale e Settore scientifico disciplinare / Scientific sector: 07/G1; AGR/18 – Nutrizione e alimentazione animale

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

Studio dell’efficienza alimentare e delle emissioni di metano in bovini di razza Pezzata Rossa.

**Text in English:**

Study of feed efficiency and methane emissions in Simmental cattle.

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

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

**Testo in italiano:**

I bovini forniscono alimenti ricchi di proteine ad alto valore biologico e altri nutrienti per il consumo umano. I ruminanti sono in grado di consumare foraggi e pascolare terreni inadatti ai seminativi; tuttavia, vi è una crescente attenzione al loro impatto ambientale. Secondo la FAO, quasi il 6% delle emissioni di gas serra di origine antropica sono dovute alla produzione di metano enterico da parte dei ruminanti. Ridurre le emissioni derivanti dal bestiame è essenziale per sostenere gli obiettivi di mitigazione globale. Nei ruminanti il metano viene generato principalmente durante la fermentazione enterica per rimuovere l'anidride carbonica e l'idrogeno dal rumine. Molti fattori regolano la produzione di metano, dalle caratteristiche dell’animale (specie, età, produttività, microbiota ruminale, ecc.) a quelle dell’alimentazione (livello energetico della razione, digeribilità, contenuto di fibre, ecc.), ma l’assunzione di sostanza secca è un fattore chiave. Si stima una produzione di circa 20g di metano per ogni kg di alimento ingerito. È quindi necessario trovare sistemi economicamente vantaggiosi per ridurre le emissioni derivanti dagli allevamenti soddisfacendo al tempo stesso la crescente domanda di cibo da parte della popolazione. Per raggiungere questo obiettivo, è necessario migliorare l’efficienza alimentare riducendo l’assunzione senza ridurre la produzione. L’efficienza alimentare, infatti, ha evidenti implicazioni economiche (ad esempio, un impatto sui costi per unità di prodotto animale) ma anche ambientali (ad esempio, minori emissioni). Negli ultimi anni, l’assunzione residua di mangime è diventata l’indice più importante di efficienza alimentare sia per i bovini da latte che per quelli da carne, poiché è indipendente dalla dimensione corporea e dalla crescita dell’animale e ha una buona ereditarietà. Inoltre, le emissioni di metano sono strettamente legate all’assunzione di mangime, anche se soggette a significativa variabilità individuale dovuta all’andamento delle fermentazioni ruminali. Pertanto, le informazioni sull’efficienza alimentare dei bovini devono necessariamente essere combinate con le informazioni sulle emissioni di metano a livello individuale.
Lo studio mira a sviluppare protocolli adeguati per la raccolta di dati fenotipici, come l'efficienza alimentare e le emissioni di metano, con metodi facilmente riproducibili e immediatamente applicabili alla popolazione bovina. Nel dettaglio, la ricerca consentirà di valutare, a livello individuale, l'assunzione di mangime, le performance produttive e le emissioni di metano dei bovini appartenenti alla razza Simmental. L'efficienza alimentare viene calcolata a partire dai dati di produzione e di consumo alimentare individuale. Il gruppo di ricerca Nutrizione e Alimentazione Animale, in collaborazione con ANAPRI, registra gli incrementi ponderali e l'ingestione individuale dei tori Simmental soggetti a performance test presso il Centro Genetico di Fiume Veneto (PN). I tori vengono tenuti in recinti dotati di alimentatori elettronici (sistema RIC; Hokofarm Group, Paesi Bassi) e alimentati con una razione unfeed distribuita ad libitum due volte al giorno. Il sistema è in grado di riconoscere gli animali in base alle marche auricolari e monitorare i cambiamenti nel peso della razione nel tempo. Inoltre, vengono registrati alcuni tratti del comportamento alimentare, come il numero e la durata degli eventi di alimentazione e di mancata alimentazione. In questo modo, i dati comportamentali consentono un'interpretazione più accurata delle informazioni sull'assunzione individuale. Con questo studio i dati disponibili dovranno essere riconsiderati secondo nuove indagini comportamentali effettuate utilizzando innovativi sensori indossabili. Le emissioni individuali di metano saranno misurate su ciascun bovino a intervalli regolari con uno strumento portatile dotato di sensore IR (Laser Methane Smart, Crowcon, UK). Il metodo della concentrazione di metano nel respiro utilizza le concentrazioni di metano nell’aria espirata dai bovini come indicatore del tasso di produzione giornaliero di metano. Questa tecnologia innovativa è indicata in letteratura come uno strumento affidabile per stimare la produzione di metano emessa quotidianamente dai ruminanti. Questa indagine ci consentirà di differenziare i bovini in base alle loro emissioni di metano. Lo studio aprirà il compito di redigere un adeguato protocollo di misurazione e conversione dei dati di concentrazione di metano registrati in azienda.

Text in English:

Cattle provide foods rich in high biological value proteins and other nutrients for human consumption. Ruminants are able to consume forages and graze land unsuitable for arable cropping; nevertheless, there is growing attention to their environmental impact. According to the FAO, almost 6% of anthropogenic greenhouse gas emissions are due to the production of enteric methane by ruminants. Reducing emissions from livestock is essential to supporting global mitigation goals. Methane is mainly generated in ruminants during enteric fermentation to remove carbon dioxide and hydrogen from the rumen. Many factors regulate the production of enteric methane, from the characteristics of the ruminant (species, age, productivity, rumen microbiota, etc.) to those of the feed (energy level of the ration, digestibility, fiber content, etc.), but the dry matter intake is a key factor. A production of about 20g of methane is estimated for each kg of intake. It is therefore necessary to find cost-effective ways to reduce emissions from livestock systems while satisfying the population’s growing demand for food. To achieve this, it is necessary to improve feed efficiency by reducing intake without reducing production. In fact, feed efficiency has obvious economic implications (for example, an impact on costs per unit of animal product) but also environmental ones (for example, lower emissions). In recent years, residual feed intake has become the most important index of feed efficiency for both dairy and beef cattle, as it is independent of animal body size and growth and has good heredity. Furthermore, methane emissions are closely linked to feed intake, even if they are subject to significant individual variability due, in particular, to the progress of rumen fermentations. Therefore, information on the feed efficiency of cattle must necessarily be combined with information on individual methane emissions. The study aims to develop suitable protocols for collecting phenotypic data, such as feed efficiency and methane emissions, with easily reproducible methods that are immediately applicable to the cattle population. In detail, the research will make it possible to evaluate, on an individual level, the feed intake, production performance, and methane emissions of cattle belonging to the Simmental breed. The feed efficiency is calculated starting from the production and individual food intake data. The Animal Nutrition and Feeding research group, in collaboration with ANAPRI, has been recording the weight gains and individual ingestion of Simmental bulls in performance trials at the Genetic Center in Fiume Veneto (PN). The bulls are kept in pens equipped with electronic pen feeders (RIC system;
Hokofarm Group, The Netherlands) and fed a total mixed ration distributed ad libitum twice a day. The system is able to recognize animals based on their ear tags and monitor changes in ration’s weight over time. In addition, some traits of eating behavior are recorded, such as the number and duration of feeding and non-feeding events. In this way, dietary behavioral data allows for a more accurate interpretation of individual intake information. With this study, the available data will have to be reconsidered according to new behavioral surveys carried out using innovative wearable sensors. Individual methane emissions will be measured on each bovine at regular intervals with a portable instrument equipped with an IR sensor (Laser Methane Smart, Crowcon, UK). The breath methane concentration method uses concentrations of methane in the breath of cattle as an indicator of the daily methane production rate. This innovative technology is indicated in the literature as a reliable tool for estimating the production of methane emitted daily by cattle. This survey will allow us to differentiate cattle according to their methane emissions. This study will have the task of drawing up an adequate protocol for measuring and converting the methane concentration data recorded on the farm.

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

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

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

€ 29,184,45

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:

- University degree obtained before Decree n. 509 of 3 November 1999 or specialist/Master's degree (post decree n. 509 of 3 November 1999 and decree n. 270 of 22 October 2004) or equivalent degree obtained abroad;
- professional scientific curriculum suitable for the research activity above mentioned.
Procedura selettiva / Competition procedure:

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

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

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<thead>
<tr>
<th>Calendario del colloquio / Calendar of the oral exam</th>
<th>Modalità / Modality</th>
<th>In presenza / On site</th>
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<td>Data / Date</td>
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<td>Ora / Time</td>
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<td>Luogo / Place</td>
<td>Saletta riunioni del Dipartimento di scienze agroalimentari, ambientali e animali, sede di via Sondrio 2/a (ex-Basket) – Udine / Meeting room of the via Sondrio 2/a (ex-Basket) site of the Department of agricultural, food, environmental and animal sciences</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

Commissione giudicatrice / Examining Board:

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<th>Qualifica</th>
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<tr>
<td><strong>Membri Effettivi / Permanent members</strong></td>
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<tr>
<td>Stefano Bovolenta</td>
<td>PO</td>
<td>AGR/19</td>
<td>Università degli Studi di Udine</td>
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<td>Mirco Corazzin</td>
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<td>Tanja Peric</td>
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