

Public competition announcement for admission at PhD programme for the Agri-Food System of Università Cattolica del Sacro Cuore 38th cycle – Piacenza Campus

Art. 1

Opening

For the PhD Programme in Agro-Food System are indicated: duration of the programme, number of positions available and open to competition (including executive PhD positions, reserved to company or institution employees, according to specific agreements), sites and accredited institutions, Coordinator and calendar of examinations.

The number of scholarships may increase as a result of funding from public and private institutions, provided that the related agreement is signed within the date of expiration of the public announcement.

An increase in the number of available scholarships may result in an increase in the number of positions opened for public competition. Any further changes and / or additional information to the competition will be published on the site <https://progetti.unicatt.it/progetti-ateneo-bandi-e-concorsi-milano-piacenza-brescia#content>

The activation of the PhD programme and the related selection procedures are under the condition of accreditation, the verification of the maintenance of the requirements by ANVUR. Scholarships pursuant to Ministerial Decrees 351/22 and 352/22 are subject to verification of eligibility by the Ministry.

Coordinator: Prof. Paolo AJMONE MARSAN.

Duration: 3 years.

Positions: 31

Scholarship-based positions: 7

of which 3 “finalized” to research on the following projects:

- Soluzioni di Fluidodinamica Computazionale per il benessere animale nell'allevamento di precisione (*Computational Fluid Dynamics Solutions for Animal Welfare in Precision Farming*). Scholarship co-financed by Laboratorio MUSP - Tecnopolo Piacenza - Dipartimento di Energia, Politecnico di Milano;
- Strategie per migliorare l'efficienza e il benessere nei vitelli (*Strategies to improve performance and well-being in calves*);
- Tecnologie omiche per la qualità e la sicurezza di prodotti alimentari (*Omic technologies for food quality and safety*) plant-based. Scholarship co-financed by



the European project *Horizon Europe TITAN (Transparency solutions for transforming the food system)*.

For the 38th cycle, in addition to the 3 targeted scholarships, there are scholarships for the following Areas:

Biological-Agricultural Area: 2 scholarships

- Field: Sustainable Plant Production.

Economic-Judicial Area: 2 scholarships

- Field: Economics, management and efficiency of the agri-food market;

- Field: Legislation and protection of agri-food system safety, regulation of liability and sanctions.

Places reserved for the “executive PhD”

- no. 1 place reserved for employees of Associazione Italiana Allevatori – A.I.A., Rome, for the realisation of the following research project: “Valutazione della efficienza di strategie e tecnologie di *precision farming* per migliorare il benessere e qualità delle produzioni zootecniche” (*Performance assessment of precision farming strategies and technologies to improve the well-being and quality of livestock production*);
- no. 1 place reserved for employees of Associazione Italiana Allevatori – A.I.A., Rome, for the realisation of the following research project: “Valutazione dell’impatto ambientale e differenti strategie di mitigazione nelle specie lattifere utilizzando big data e approcci statistici innovativi” (*Evaluating environmental impact and different mitigation strategies in dairy species using big data and innovative statistical approaches*);
- No. 1 place reserved for employees of Consorzio del Formaggio Parmigiano Reggiano, Reggio Emilia, for the realisation of the following research project: “Sviluppo di servizi innovativi per la produzione primaria del Parmigiano Reggiano” (*Development of innovative services for Parmigiano Reggiano primary production*);
- No. 1 place reserved for employees of Confagricoltura – Confederazione Generale dell’Agricoltura Italiana, Roma, for the realisation of the following research project: “Transizione digitale nel sistema agro-alimentare: impatti economici ed implicazioni per le politiche pubbliche” (*The digital transition in the agri-food system: economic impacts and implications for public policies*);
- No. 1 place reserved for employees of *Institut Supérieur de Technologies Appliquées (TechnoLAB - ISTA)*, Bamako, Mali, for the realisation of the project in “*Agribusiness growth facing the challenge of funding mechanism in place-Covid poor economy: difficulties for a sector looking for its' survival in Mali*”;
- No. 1 place reserved for employees of *Ambo University*, Ambo, Ethiopia, for the realisation of the project in “*Farmers heterogeneity in seed security for major staple cereal crops and its implication on cropping intensification: West Shewa Zone, Oromia Regional State, Ethiopia*”;
- No. 1 place reserved for employees of the *Catholic University of Central Africa (CUCA)*, Yaoundé, Cameroon, for the realisation of the project in “*The impact of agro-industrial investments and agri-food data on the sustainability of the Cameroon green farm system and the Cameroon special food security programme*”;
- No. 1 place reserved for employees of *Walter Sisulu University*, Mthatha, South



- Africa, for the realisation of the project in *“Assessing the impacts of land-use change on rural African small-scale farmers: a case of selected rural villages in the OR Tambo District Municipality of Eastern Cape, South Africa”*;
- No. 1 place reserved for employees of *the University of the Sacred Heart, Gulu, Uganda*, for the realisation of the project in *“Income diversification for smallholder farmers and adaptation to climate change”*;
 - No. 1 place reserved for employees of the *Metropolitan International University, Kisoro, Uganda*, for the realisation of the project in *“Leveraging the market systems development approach to advance the impact of inclusive business models in strengthening the resilience of agricultural systems”*;
 - No. 1 place reserved for employees of *Bukalasa Agricultural College, Wobulenzi Luweero, Uganda*, for the realisation of the project in *“Utilisation of marginal lands in Uganda: exploiting the potential of amaranth and cowpeas”*;
 - No. 1 place reserved for employees of *Uganda Martyrs University, Nkozi, Uganda*, for the realisation of the project in *“Climate-smart agriculture and small holder farm resilience to climate change: the case of Kasese District in South Western Uganda”*;
 - No. 1 place reserved for employees of *Uganda Martyrs University, Nkozi, Uganda*, for the realisation of the project in *“The impact of changes in agro-pastoral practices on crop livestock system productivity and adaptation to the variable rainfall distribution”*;
 - 1 place reserved for employees of the *University of Saint Thomas of Mozambique, Maputo, Mozambique*, for the realisation of the project in *“Linking smallholder farmers to emerging markets in Mozambique”*.

Places without a scholarship:

- No. 7 places for the Biological-Agricultural Area;
- No. 3 places for the Economic-Judicial Area.

Further available scholarships: see Art. 2 of this notice.

Information: <http://dottorati.unicatt.it/agrisystem>

Calendar of examinations:

Result of the evaluations of qualifications to access the oral exam: Monday, September 12nd, 2022.

Oral exam:

- Economic-Legal Area Panel: Wednesday, September 14th 2022, 9.30 a.m.
- Biological-Agricultural Area Panel: Wednesday, September 14th, 2022, 2.30 p.m. and Thursday September 15th, 2022, 9.00 a.m.



Art. 2
Scholarships according to Ministerial Decrees nr. 351/22 and 352/22

Further funded positions, according to Ministerial Decrees nr. 351/22 and 352/22 and financed/co-financed by the National Recovery and Resilience Plan (PNRR) (Programma Nazionale di Ripresa e Resilienza - PNRR), are also foreseen within the present Call, as specifically detailed in Attachment sub 1,

The availability of the mentioned scholarships covers the following areas:

- Ministerial Decree nr. 351/22: scholarships finalized to the research development on digital and green transition; on PNRR's specific themes (digitalization, innovation, competitiveness, culture e tourism; green revolution and ecological transition; sustainable mobility; education and research; inclusion and cohesion; health), on Public Administration issues, on cultural heritage themes;
- Ministerial Decree nr. 352/22: scholarships for innovative doctoral programmes, in collaboration with enterprises and organizations.

PhD candidates resulting holders of a scholarship according to Ministerial Decree 351/22, shall:

- Spend a study period within a firm or a research centre, from a minimum of 6 up to 18 months (this is not compulsory for candidates dealing with research positions on PNRR issues, according to Ministerial Decree nr. 351/22, art. 7);
- Spend a study period abroad, from a minimum of 6 up to 18 months.

PhD candidates resulting holders of a scholarship according to Ministerial Decree 352/22, shall:

- Spend a study period within a firm, from a minimum of 6 up to 18 months;
- Spend a study period abroad, from a minimum of 6 up to 18 months.

Art. 3
Admission requirements

Application for participation in the competition, with no restriction with respect to age and nationality, is open to candidates holding a Master's degree, or a university degree obtained under the education system prior to Ministerial Decree no. 509 of November 3rd, 1999 or a university qualification obtained abroad and recognised as eligible.

Application for participation is also open to candidates that will obtain the qualification referred to in the first paragraph above by October 31st, 2022.

Art. 4
Application form

Candidates who intend to participate in the competition must submit an application to the Rector of Università Cattolica del Sacro Cuore by Tuesday, August 23th 2022.

The application form is available online at <https://progetti.unicatt.it/progetti-ateneo-bandi-e-concorsi-milano-piacenza-brescia#content> until 2.00 p.m. (local time) on the expiration date of the present public announcement.



The doctoral secretariat is available, during the office opening days and times, to support candidates in the online registration phase.

In the application form, to be filled in online only, available in Italian and English, candidates shall precisely declare under their responsibility:

- favourite research topic;
- personal information: surname, first name, fiscal code (for Italian nationals only), date and place of birth, citizenship, residence and domicile elected for the purposes of the competition;
- should candidates possess dual nationality, one of which is for a EU member state, they may opt for EU citizenship;
- the type (s) of scholarship for which you intend to participate;
- EU and foreign nationals should indicate an Italian domicile if possible, or the address of their Embassy in Italy, elected as domicile;
- for graduate students: university degree, date it was obtained and name of the conferring university, or foreign degree;
- for undergraduate students: university degree, candidates are studying towards, expected date it will be obtained and name of the conferring university (whether in Italy or abroad);
- foreign languages known.

On pain of exclusion, candidates must complete their application with the following documents – upload format .pdf or .jpg:

- detailed curriculum vitae et studiorum (only English version);
- for graduate students: self-certified Master's degree document with final mark and exam transcripts, or certification of qualification obtained abroad with final mark and exam transcripts (Italian or English version);
- undergraduates: self-certified proof of enrolment in one of the above-cited degree programmes with exam transcripts, or in a university programme abroad with exam transcripts (Italian or English version);
- a motivational letter, only English version (max. 30 lines), indicating reasons for application, expectations and fields of interest;
- a research project, only English version (max. 2,000 words), indicating topic, hypotheses and methodology deemed most suitable for the development of a research project in the selected curriculum. The project must be countersigned by a university professor or researcher in national or international scientific institutions. In the absence of countersignature, a letter of introduction, only English version, by university professors or researchers in national or international scientific institutions has to be included in the application;
- copy of an identification document, duly signed;
- copy of the fiscal code (for Italian nationals only);
- card-size photograph;



- students with a degree obtained or to be obtained in NON-EU countries shall provide a translation, authentication and a certificate of equivalence of qualification of their foreign degree certificates, issued by the Italian Consulate/Embassy representative offices in the countries where they have obtained/will obtain the degree. EU students must provide a Diploma Supplement from the University where they completed their studies as an alternative to the certificate of equivalence of qualification.

Applications may further contain – upload format .pdf or .jpg:

- certification of any other qualifications, such as postgraduate and specialisation degrees, obtained in Italy or abroad, with exam transcripts;
- a copy of any other qualification deemed useful for the purposes of assessment, and a list thereof on unstamped paper;
- a list, on unstamped paper, of publications deemed relevant for the purposes of assessment, and a copy of the publications that candidates intend to make known to the Panel.

Applications may further contain any of the following certificates attesting English language knowledge:

- BEC (Business English Certificates);
- British Chamber of Commerce;
- CAE (Certificate in Advanced English);
- CPE (Certificate of Proficiency in English);
- IELTS (International English Language Testing System);
- TOEFL (Test of English as a Foreign Language).

The application will only be complete and valid after:

- having uploaded all mandatory documents and any optional documents;
- having paid the selection fee of € 100.00 (non-refundable) to be paid *online*;
- downloading the application file, which will be generated automatically by the system;
- uploading the .pdf file of the application itself on the portal.

Applicants are asked to confirm what they have submitted at each step by clicking on the 'continue' icon, at the bottom right corner.

As proof of the validity of the application, the candidate will receive a confirmation *e-mail* from the PhD Office.

In the event of non-receipt of the *e-mail*, the candidate will have to log back into the portal to complete the procedure and finalise the application.

The University reserves the right to adopt, even after the competition examinations have been held, measures for the exclusion of candidates who do not meet the requirements or who have not complied with the provisions of the notice of competition.

Applicants with disabilities, for the purposes of the competition, must specify in their application the aid required in relation to their disability, pursuant to Law No. 104 of 5 February 1992.



Art. 5
Admission examinations

The admission examinations consist in the assessment of candidates' qualifications and an oral examination.

In relation to the qualities ascertained, the Panels assign each candidate max. 60 points for each of the two examinations.

Only candidates obtaining a minimum score of 40/60 in the assessment of qualifications are admitted to the oral examination.

For this purpose, the following elements will be evaluated:

- degree relevant to the areas relating to the doctorate, degree mark or average marks for undergraduates at the time of evaluation of qualifications, achievement of masters degrees, participation in higher education university courses, internships and traineeships consistent with the chosen research address, research grants and scholarships, publications in national and international journals relating to the agro-food sector, work and collaboration experiences in applied research at universities and public or private bodies (score up to 46/60);
- research project, motivational letter and certifications related to the knowledge of the English language as per the previous art. 3 (score up to 14/60).

The oral examination consists in the assessment of candidates' knowledge of the general aspects of the topics of interest of the PhD Programme and research area chosen, as well as aptitude to scientific research.

The oral examination is passed with a minimum score of 40/60.

The interview in English will preferably take place in person at the Piacenza headquarters in Via Emilia Parmense 84.

Candidates unable to take the oral exam at the headquarters may request, by the deadline of the competition, to sit the oral exam through Microsoft Teams, by sending an e-mail to agrisystem-pc@unicatt.it explaining the request.

The candidate can be excluded if it cannot be found on the agreed day and time.

Università Cattolica del Sacro Cuore shall bear no responsibility if any technical reasons prevent the effective conduction of the interview.

Candidates are admitted to the PhD Programme according to the two final merit-based ranking lists of each Research Area, until coverage of the number of positions opened has been completed, with the exclusion of the positions funded by «finalized scholarships» for which dedicated merit-based ranking lists shall be drawn.

Candidates applying for a «finalized scholarship» that result to be eligible but do not win the competition, will be inserted, based on their scoring, in the general ranking list of their reference area, so as to compete for other scholarships or for a fee-based position.

The "finalized scholarships" may not be assigned to candidates competing for positions different from those related to the finalized scholarship.



The non-finalized scholarships and the fee-based positions that, for lack of eligible candidates or due to forfeiture, are not assigned in a Research Area, may be assigned to candidates of the other Research Area based on their ranking.

In order to be allowed to take the examinations, candidates must show a valid identification document pursuant to Art. 35, second Paragraph, of Presidential Decree no. 445 of December 28th, 2000 (identity card, driving license, passport).

Art. 6

Examination Panels

Two Examination Panels for admission to the PhD Programme in Agro-Food System shall be appointed: one for the Biological-Agricultural Area and one for the Economic-Legal Area. Each Examination Panel will consist of three tenured academics, to whom no more than two (also foreign) experts from institutions and public and private research institutes may be added. The Examination Panels shall be appointed by the Rector, upon the proposal of the Teaching Panel.

The composition of the Panels will be published, after the expiration date of the present public announcement, at <https://progetti.unicatt.it/progetti-ateneo-bandi-e-concorsi-milano-piacenza-brescia#content>

Art. 7

Results of the competition

The Examination Panels shall arrange separate comparative evaluations of qualifications and separate final merit rankings.

Specific comparative evaluations and merit rankings shall be arranged for each “finalized scholarship”.

Specific comparative evaluations and merit rankings shall be arranged for the “executive doctoral” positions.

The results of the evaluation of the qualifications for admission to the oral exam shall be notified to participants from Monday, September 12nd, 2022, via online publication at:

<https://progetti.unicatt.it/progetti-ateneo-bandi-e-concorsi-milano-piacenza-brescia#content> ;

<http://dottorati.unicatt.it/agrisystem>

Art. 8

Admission to the PhD Programme

Candidates are admitted to the PhD Programme according to their ranking until coverage of the number of positions has been completed. Should successful candidates withdraw before the beginning of the Programme, the positions will be covered by the candidates next in line in the ranking.

Provided that they are successful in the admission examinations, research fellows holding grants may be admitted to a PhD Programme as supernumerary in the fee-based positions, retaining their grant, upon condition that the PhD Programme in which they enrol refers



to the same scientific area of research for which they are enjoying research grants.

By virtue of the signed agreement, the doctoral students in the Ph.D. Programme will have the opportunity to join the “Double Doctorate Programme” in Agro-Food System organised by Università Cattolica del Sacro Cuore, and in Ciencias de Recursos Naturales organised by Universidad de La Frontera (Temuco, Chile). Students admitted to the “Double Doctorate Programme” will receive advanced training (equal to a minimum of 10 ECTS) through the teaching programme of Dottorado y Magíster en Ciencias de Recursos Naturales of Universidad de La Frontera, and they will have to spend at least six months at this university.

Art. 9 Enrolment

The winners of the competition must complete enrolment within 5 days starting from the day following the one in which the related email with the invitation will be received, by accessing the following website: <https://iscrizioni.unicatt.it/iscrizioni/>

Art. 10 Aid and scholarships

Tuition fees for the Programme at Università Cattolica del Sacro Cuore are set out annually by the Board of Directors.

PhD students are required to pay tuition fees annually amounting to € 1.516,00, to be paid into three instalments: the first (of € 516.00) upon enrolment, the second (of € 500.00) by February 28th, and the third (of € 500.00) on June 30th each year.

For Italian Law, the enjoyment of a scholarship to attend the PhD Programme is compatible with other income earned, also on a regular basis, in the calendar year of the scholarship, provided that such income does not exceed the amount of the scholarship itself. Should these income limits be surpassed, the scholarship shall be revoked for the year in question. For the verification of the income limits, scholarship assignees shall annually declare the income earned and notify exceeding of the prescribed limit.

The scholarships are annual and are renewed provided that the PhD students have completed the programme of activities set for the previous year.

The amount of the scholarship, paid in monthly instalments, is € 16,243.00 per year, before social security charges. The scholarship is subject to the payment of social security contributions (INPS separate management) pursuant to Art. 2, Paragraph 26, of Italian Law 335 dated of August 8th, 1995, and subsequent amendments. The scholarship is exempt from local income tax and personal income tax (IRPEF).



The scholarship amount shall be increased by max. 50 percent, for a period not over 12 months, if the PhD student is authorised by the Teaching Panel to conduct research abroad.

Starting from the second year, to each PhD student, with or without a scholarship, is granted a sum covering research activities in Italy and abroad amounting to 10% of the annual gross amount of the scholarship, equal to € 1,624.30.

Those who have previously, even partially for another PhD course, benefited from it may not be eligible for a doctorate scholarship.

Art. 11

Public employee

Current legislation on leave of absence or special leave applies to public employees admitted to the PhD Programme.

Art. 12

Rights and Obligations of PhD students

PhD students are required to regularly participate in the activities set out in their curricula, and to commit to individual and guided study programmes and to carrying out the research activities assigned by the Scientific Panel.

PhD students are also required to consult the Code of Conduct of Università Cattolica and to comply with its principles and aims.

Art. 13

Public disclosure

This public announcement is published on the website of Università Cattolica del Sacro Cuore at <https://progetti.unicatt.it/progetti-ateneo-bandi-e-concorsi-milano-piacenza-brescia#content> on the Euraxess European website and on the MIUR website.

Art. 14

Final provisions

This public announcement was originally written in Italian and has been translated into English for easy reference only. The Italian version will be considered definitive for any questions of interpretation.

For any matter not expressly contemplated in this public announcement, the provisions indicated in "Regulatory Norms of the PhD Programmes and PhD Schools of Università Cattolica del Sacro Cuore" and regulation in force shall apply.

Further information can be obtained from the PhD Programmes Secretariat (office hours: Monday to Friday from 9.00 am to 12.30 pm), phone no. 0523 599.476/493, or at agrisystem-pc@unicatt.it or at <http://dottorati.unicatt.it/agrisystem>.

Head of the procedure of the present selection is Dr. Roberto BRAMBILLA, Director of Postgraduate Education and Research Partnership, Via Carducci 28/30, Milan.



ANNEX sub. 1
Rectoral decree No. 8831 of 28 th June 2022

Allocation of additional resources under the National Recovery and Resilience Plan (PNRR) to accredited pathways in the 38th cycle

As regards the public competition for the PhD program for the Agri-Food System of Università Cattolica del Sacro Cuore – Piacenza Campus, additional resources provided by the National Recovery and Resilience Plan (PNRR) are available for the following PhD program:

PhD Programme for the AGRO-FOOD SYSTEM

(Coordinator: Prof. Paolo AJMONE MARSAN)

Duration: 3 years

Posts with scholarship pursuant to Ministerial Decree 351/22:

- No. 1 scholarship for the realisation of the research project on “Nitrati e nitriti per migliorare le proprietà salutistiche e nutrizionali delle preparazioni a base carne” (Nitrates and nitrites to improve health and nutritional properties of meat based products) under the topic “Transizioni digitali e ambientali” (Digital and environmental transitions).

Posts with scholarship pursuant to Ministerial Decree 352/22:

- No. 1 scholarship for the realisation of the research project on “Valutazione predittiva per la scelta del tappo di sughero in funzione del vino al fine di incrementare sostenibilità e resilienza della «wine supply chain»” (Predictive assessment for selecting wine cork in order to increase sustainability and resilience of the wine supply chain".), co-financed by Amorim Cork Italia S. p.A., Conegliano (TV);
- No. 1 scholarship for the realisation of the research project on “Rilievo della variabilità spazio-temporale e applicazioni di precisione per una viticoltura efficiente e sostenibile” (Surveying space-time variability and precision applications for efficient and sustainable viticulture), co-financed by Antares Vision S. p.A., Travagliato (BS);
- No. 1 study grant for the realisation of the research project on “Ottimizzazione della filiera del basilico da industria con particolare attenzione al controllo della peronospora”(Industrial basil supply chain improvement with a focus on peronospora control), co-financed by Barilla G. e R. Fratelli S. p.A., Parma;
- No. 1 scholarship for the realisation of the research project on “*Nitrogen Management*

and Carbon Farming, Sustainable Agriculture”, co-financed by Basf Italia S.p.A., Cesano Maderno (MB);

- No. 1 scholarship for the realisation of the research project on “Sostenibilità e gestione dei rischi ESG nella filiera dei prodotti dolciari della tradizione italiana” (Sustainability and ESG risk management in the supply chain of traditional Italian confectionery products), co-financed by Bauli S. p.A., Castel D'Azzano (VR);
- No. 1 scholarship for the realisation of the research project on “Aumento della sostenibilità nel settore lattiero caseario attraverso interventi microbiologici mirati nei processi produttivi” (Increasing sustainability in the dairy sector through targeted microbiological interventions in production processes), co-financed by Biraghi S. p.A., Cavallermaggiore (CN);
- No. 1 scholarship for the realisation of the research project on “Studio del profilo chimico e di qualità nella produzione del Parmigiano Reggiano” (Study of the chemical and quality profile in Parmigiano Reggiano production), co-financed by Consorzio del Formaggio Parmigiano Reggiano, Reggio Emilia;
- No. 1 scholarship for the realisation of the research project on “*Sustainable use of fumigants for nematode control in agricultural soils*”, co-financed by Dow Italia s.r.l., Milan;
- No. 1 scholarship for the realisation of the research project on “Strategie di controllo delle micotossine in ambito agricolo e zootecnico” (Mycotoxin control strategies in agriculture and animal husbandry), co-financed by Eurofins Tecna s.r.l., Trieste;
- No. 1 scholarship for the realisation of the research project on “*Techniques for the improvement of economic efficiency and environmental sustainability of hazelnut orchards*”, co-financed by Helix a.r.l., Serravalle a Po (MN);
- No. 1 scholarship for the realisation of the research project on “Studi biologici ed epidemiologici su patogeni vegetali ai fini dello sviluppo di modelli matematici per la previsione delle malattie delle piante” (Biological and epidemiological studies on plant pathogens for the development of mathematical models for predicting plant diseases), co-financed by Horta s.r.l., Piacenza;
- No. 1 scholarship for the realisation of the research project on “Ricerca di metodiche di produzione innovative di prodotti biotecnologici” (Research into innovative production methods for biotechnological products), co-financed by Proge Farm s.r.l., Novara;
- No. 1 scholarship for the realisation of the research project on “Sperimentazione sulla sostenibilità, impatto e beneficio della tecnologia agri-fotovoltaica in Italia” (Experimentation on the sustainability, impact and benefit of agri-photovoltaic technology in Italy), co-financed by Ricerca sul Sistema Energetico - RSE S.p.A., Milan;
- No. 1 scholarship for the realisation of the research project on “Microorganismi per la difesa delle colture agrarie: elucidazione dei meccanismi di azione e selezione di nuovi ceppi” (Microorganisms for agricultural crop protection: elucidation of mechanisms of action and selection of new strains), co-financed by Sacco s.r.l., Cadorago (CO);
- No. 1 scholarship for the realisation of the research project on “Studio delle basi molecolari e dei meccanismi di azione responsabili della capacità dei batteri lattici di inibire microrganismi indesiderati e sviluppo di colture microbiche per la qualità e sicurezza degli alimenti” (Study of the molecular basis and mechanisms of action responsible for the ability of lactic acid bacteria to inhibit unwanted microorganisms and development of microbial cultures for food quality and safety), co-financed by Sacco s.r.l., Cadorago (CO);



- No. 1 scholarship for the realisation of the research project on “Sviluppo di un sistema per la previsione della resa delle principali colture di pieno campo (ad es. frumento, pomodoro da industria) attraverso l’integrazione di dati satellitari, meteo e suolo” (Development of a system for forecasting the yield of major field crops (e.g. wheat, processing tomatoes) through the integration of satellite, weather and soil data), co-financed by SATA s.r.l., Quargento (AL);
- No. 1 scholarship for the realisation of the research project on “Studio della modalità di azione di prodotti ad azione biostimolante” (A study of the mode of action of biostimulant products), co-financed by Sofbey SA, Chiasso (Switzerland);
- No. 1 scholarship for the realisation of the research project on “Sostenibilità, innovazione e gestione dell’impatto ambientale del confezionamento spray applicato ai prodotti alimentari e nutraceutici” (Sustainability, innovation and environmental impact management of spray packaging applied to food and nutraceutical products), co-financed by Solchim s.r.l., Fiesco (CR);
- No. 1 scholarship for the realisation of the research project on “Un nuovo approccio per la fermentazione delle fave di cacao basato su backslopping e inoculazione di lieviti, batteri lattici ed acetici” (a new approach for cocoa bean fermentation based on backslopping and inoculation of yeasts, lactic and acetic bacteria), co-financed by Soremartec Italia s.r.l., Alba (CN);
- No. 1 scholarship for the realisation of the research project on “Sviluppo e validazione di un modello predittivo per il rischio contaminazione da aflatossina su nocciolo” (development and validation of a predictive model for aflatoxin contamination risk on hazelnuts), co-financed by Soremartec Italia s.r.l., Alba (CN);
- No. 1 scholarship for the realisation of the research project on “*Innovative technologies for food processing. Use of fermentation as a tool to enhance the sustainability of milk and flankers' ingredients*”, co-financed by Soremartec Italia s.r.l., Alba (CN);



Nomina dei membri del collegio dei docenti del corso di Dottorato per il Sistema Agro-alimentare – ciclo XXXVIII – sede di Piacenza

Corso di Dottorato in SISTEMA AGRO-ALIMENTARE

Collegio dei docenti:

- Prof. Paolo AJMONE MARSAN, Università Cattolica del Sacro Cuore – Coordinatore;
- Prof. Marco ALLENA, Università Cattolica del Sacro Cuore;
- Prof. Stefano AMADUCCI, Università Cattolica del Sacro Cuore;
- Prof. Pier Sandro COCCONCELLI, Università Cattolica del Sacro Cuore;
- Prof.ssa Carlotta D’ESTE, Università Cattolica del Sacro Cuore;
- Prof. Antonio GALLO, Università Cattolica del Sacro Cuore;
- Prof. Daniele GENERALI, Università degli Studi di Trieste;
- Prof. Lorenzo MORELLI, Università Cattolica del Sacro Cuore;
- Prof. Daniele MORO, Università Cattolica del Sacro Cuore;
- Prof.ssa Chiara MUSSIDA, Università Cattolica del Sacro Cuore;
- Prof.ssa Mariacristina PIVA, Università Cattolica del Sacro Cuore;
- Prof. Stefano PONI, Università Cattolica del Sacro Cuore;
- Prof. Daniele RAMA, Università Cattolica del Sacro Cuore;
- Prof. Vittorio ROSSI, Università Cattolica del Sacro Cuore;
- Prof.ssa Giorgia SPIGNO, Università Cattolica del Sacro Cuore;
- Prof.ssa Mariachiara TALLACCHINI, Università Cattolica del Sacro Cuore;
- Prof. Marco TREVISAN, Università Cattolica del Sacro Cuore;
- Prof. Emanuele Antonio VENDRAMINI, Università Cattolica del Sacro Cuore;
- Dott. Filippo ROSSI, Università Cattolica del Sacro Cuore;
- Prof. Tood ALESSANDRI, Northeastern University (STATI UNITI D’AMERICA);
- Prof. Massimo BIONAZ, Oregon State University, (STATI UNITI D’AMERICA);
- Prof. Thomas HECKELEI, Università di Bonn (GERMANIA);
- Prof. Dimitrios KARPOUZAS, Università della Tessalia (GRECIA);
- Prof. Giancarlo MOSCHINI, Iowa State University, (STATI UNITI D’AMERICA);
- Prof. Paolo SABBATINI, Michigan State University, (STATI UNITI D’AMERICA);
- Prof. John Lewis WILLIAM, Università di Adelaide (AUSTRALIA).

