Instituto de Agroecoloxía
e Alimentación

Universidade Vigo

Activity Report

2023

Universidade Vigo

Instituto de Agroecología y Alimentación
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CONTENTS

1. INTRODUCTION

We are pleased to present the 2023 Annual Activity Report of the Institute of Agroecology and Food (IAA). During this period, the IAA has made significant progress towards its goal of promoting cutting-edge research, talent development and knowledge transfer in areas that are critical for the future of sustainable agriculture and food systems. Since its establishment on 21 December 2022, the IAA has successfully established itself as a leading national and international authority on agroecology and food security. Alongside its inaugural report, the IAA established objectives that gave purpose to its creation:

- Achieve higher levels of scientific excellence through the development of a Scientific Agenda aligned with European, national, and regional R&D&I policies and priorities.
- Develop, retain, and attract talent.
- Increase the impact of research conducted in the Galician region.
- Position and raise the visibility of the Institute as a reference center in the field of agroecology and food.
- Establish the Iberian Food Laboratory in collaboration with the Polytechnic Institute of Bragança (IPB).

During its first year of existence, the IAA worked to create a solid structure, establishing its governing bodies as well as internal regulations.

The IAA presents indicators of significant international relevance, highlighting the 15th place achieved by the University of Vigo in the Shanghai Ranking for Food Science and Technology, which provides a solid foundation for this Institute.

2. ORGANIZATION AND GOVERNANCE

2.1. ORGANIZATIONAL CHART

During 2023, the Institute of Agroecology and Food approved its various governing bodies. The structure of the Institute is shown in the following figure:

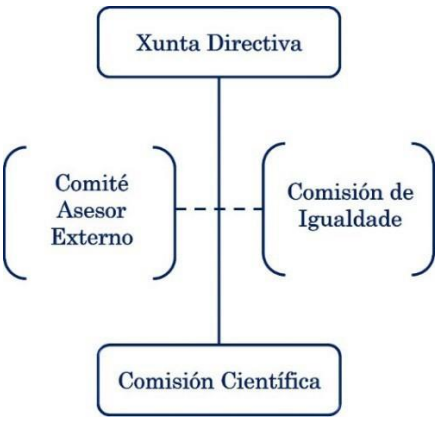


Figure 1: IAA Organizational Structure.

In addition to approving the organizational structure of the Institute of Agroecology and Food, the following positions were also approved by the IAA Board of Directors in the meeting held on May 10, 2023:

- **Director of the Institute of Agroecology and Food,** with David Fernández Calviño appointed.
- **Secretary of the Institute of Agroecology and Food,** with Adela M. Sánchez Moreiras appointed.

In the same Board of Directors meeting, the Internal Regulations of the **Institute of Agroecology and Food** were approved.

On November 30, 2023, the **Equality Plan of the Institute of Agroecology and Food** was approved by the Scientific Committee.

2.2. DESCRIPTION AND COMPOSITION

Board of Directors

On May 10, 2023, the establishment of the Board of Directors was approved, with the following allocation of positions:

- The Rector of the University, or the Vice-Rector to whom they delegate, who will chair and convene the Board.
- A board member representing the Social Council of the University of Vigo: María Sol Nóvoa Rodríguez (President of the Business Confederation of Ourense and Vice President of the Business Confederation of Galicia).
- A board member representing the researchers affiliated with the Institute: Jesús Simal Gándara.
- A board member representing staff of the Institute who are not affiliated researchers: Beatriz Díaz Reinoso.
- Representatives, if any, from public or private institutions that contribute substantially and permanently to the funding or activities of the Institute: Emma González Diéguez (Manager of INORDE – Provincial Council of Ourense).
- Director of the Institute: David Fernández Calviño.
- Secretary of the Institute, who will also serve as Secretary of the Board of Directors: Adela María Sánchez Moreiras.

Scientific Committee

The Scientific Committee of the IAA is the collegiate body responsible for developing the strategic lines of the Institute. On May 10, 2023, the establishment of the Scientific Committee was approved, with the following allocation of positions:

- Director of the Institute: David Fernández Calviño.
- Secretary of the Institute: Adela Sánchez Moreiras.
- Representative for Research Priority 1 (Soil Health and Quality): Manuel Arias Estévez.
- Representative for Research Priority 2 (Crop Management and Cultivation): Francisco Javier Rodríguez Rajo.
- Representative for Research Priority 3 (Food Quality): María Rosa Pérez Gregorio.

- Representative for Research Priority 4 (Waste Management and Valorization): Beatriz Gullón Estévez.
- Representative of non-permanent research staff: Patricia Reboredo Rodríguez.

External Advisory Committee

The External Advisory Committee is a consultative body composed of a minimum of five members, including researchers external to the University of Vigo with recognized international prestige and extensive scientific and/or technical experience in the management of research, innovation, or technology transfer projects within the IAA's areas of activity; and professionals from companies and/or institutions working in the local and/or international agri-food sector.

On May 10, 2023, the Scientific Committee approved the establishment of the External Advisory Committee, with the following allocation of positions:

- **Advisor for Research Priority 1 (Soil Health and Quality)**: Raúl Zornoza Belmonte, Universidad Politécnica de Cartagena.
- **Advisor for Research Priority 2 (Crop Management and Cultivation)**: Fabrizio Araniti, Università degli Studi di Milano.
- **Advisor for Research Priority 3 (Food Quality)**: Lillian Barros, Polytechnic Institute of Bragança.
- **Advisor for Research Priority 4 (Waste Management and Valorization)**: Carlos Martín, Inland Norway University of Applied Science.
- **Advisor representing Galician agricultural cooperatives**: Aurelio Prado Rodríguez, Amarelante SCG.
- **Advisor representing public administrations**: Servando Álvarez Pousa, Agro-Livestock Institute of INORDE (Provincial Council of Ourense).

On 8 November 2023, the Scientific Committee increased the size of the External Advisory Committee to ensure gender balance and cover a wider range of societal areas, bringing the total number of members up to 12.

- **Advisor for Research Priority 1 (Soil Health and Quality)**: Manuel Delgado Baquerizo, Institute of Natural Resources and Agrobiology of Seville (CSIC).
- **Advisor for Research Priority 2 (Crop Management and Cultivation)**: Helena Freitas, University of Coimbra.
- **Advisor for Research Priority 3 (Food Quality)**: Ana Rodríguez-Mateos, King's College London.
- **Advisor for Research Priority 4 (Waste Management and Valorization)**: Encarnación Ruiz Ramos, University of Jaén.
- **Advisor representing the Agri-food Industry**: Noelia Dosil Mayán, Coordinator of Innovation, Digital Transformation and Entrepreneurship Area (CLUSAGA).
- **Advisor representing Rural Development**: Beatriz Suárez Sánchez, Director of the Rural Development Area, Fundación Juana de Vega.

Equality Committee

The purpose of this committee is to create, within the Institute of Agroecology and Food, an environment for professional and personal development on equal terms for the entire university community.

The Equality Committee was appointed by the Scientific Committee on November 30, 2023. It is composed of five IAA members at different stages of their scientific and academic careers, as detailed below:

- Daniel Arenas Lago, Ramón y Cajal Researcher.
- Julia Carballo Rodríguez, Tenured Doctoral Professor.
- María Figueiredo González, Teaching Researcher under the University of Vigo Talent Retention Program.
- Clara Fuciños González, Associate Professor.
- Gil Garrote Velasco, Full Professor.

Figure 2: Gender Balance in the IAA Committees.

3. FACTS AND FIGURES

The following is a summary of the indicators achieved by the IAA throughout 2023.

Figure 3:Scientific Output of IAA Researchers.

Distribution of Staff at the Institute of Agroecology and Food. Two figures are presented. The first shows researchers classified according to the European reference framework. The second shows the total number of members, divided into the different categories within the IAA, differentiated by contract type and gender.

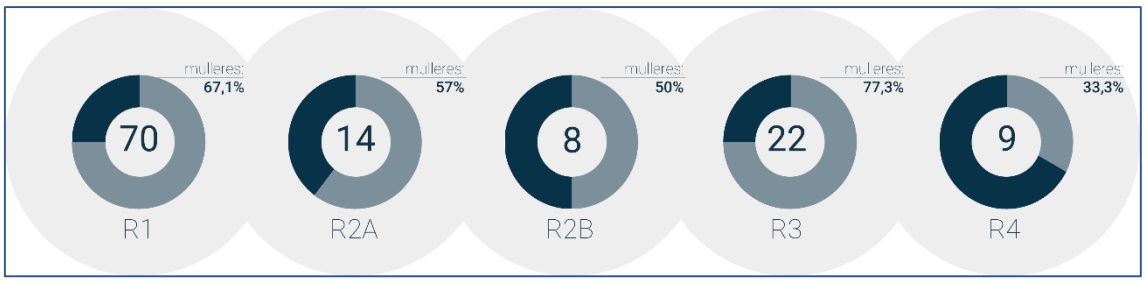


Figure 4: Classification of Researchers According to the European Reference Framework.

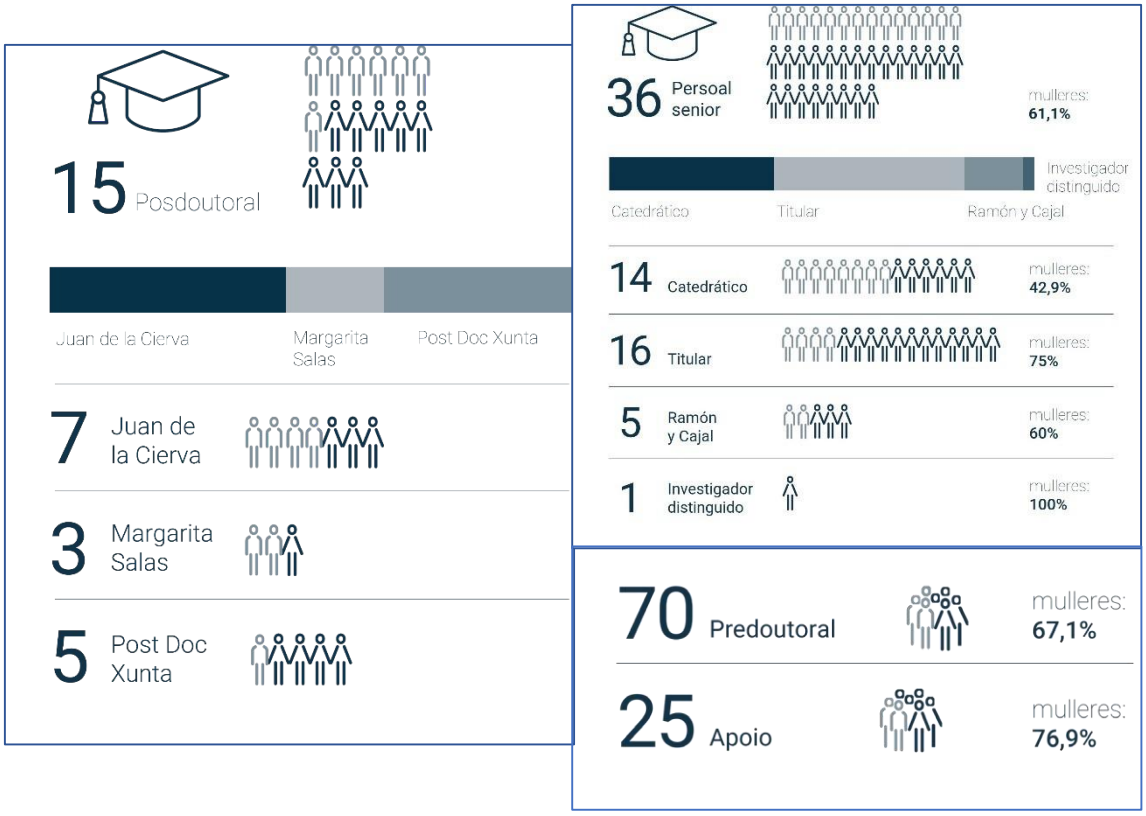


Figure 5: Detailed List of IAA Staff by Category and Gender.

4. SCIENTIFIC AREAS AND RESEARCH LINES

4.1. STRATEGIC SCIENTIFIC PROGRAM

VISION

To become a reference Institute at the intersection of agricultural and food research from an agroecological perspective, promoting an active commitment to intelligent scientific specialization through a strong emphasis on collaboration and impact generation. In pursuit of this goal, the Institute embraces excellence as an organizational culture, creating an attractive scientific environment to support competitive research careers and foster leading multidisciplinary teams in the creation of new knowledge and the development of solutions to the most pressing challenges in agri-food systems.

MISSION

To promote an interdisciplinary and excellent research environment, capable of generating new knowledge and solutions that contribute to the transition toward an agri-food system able to ensure and provide healthy, safe, and resilient food in a context marked by major global changes, including climate change, while preserving biodiversity and contributing to the Sustainable Development Goals.

VALUES AND PRINCIPLES

The Institute of Agroecology and Food (IAA) guides its activities through a set of principles and values that reflect our commitment to scientific excellence, professional ethics, and social responsibility. These principles and values form the foundation on which we build our daily work and our relationships with the community, collaborators, and the environment.

Below, we present the main principles and values that guide our work at the IAA:

- Differentiated research: realized through a scientific agenda specialized in agroecology and food.
- Scientific excellence: the Institute's competence in the scientific field establishes excellence as a goal and culture in the development of research staff and its organizational structure.
- Collaboration and interdisciplinarity: both among the Institute's own research staff and with other research units and actors in the agri-food sector.
- International positioning: promoting collaboration with leading researchers and centers, and fostering competitiveness in international funding programs and frameworks.
- Alignment with major global challenges: research priorities and lines aligned with European and worldwide R&D&I policies and priorities.
- Sustainability: seeking sustainable solutions to the major contemporary and future challenges of agri-food systems.
- Commitment to equal opportunities: recognizing cultural, demographic, and social diversity, and particularly gender equality, to enhance research quality and contribute to scientific excellence.
- Commitment to open science and scientific outreach: making knowledge an instrument for social transformation and progress.
- Alignment with the local context: focusing on value chains related to pastures and forage, cereal and potato production, viticulture, chestnut, and horticultural products.

4.2. SCIENTIFIC AREAS AND RESEARCH LINES

Research Priorities

Priority 1. Soil Health and Quality. Soil health is of great importance for global sustainability. According to the European Commission, it is essential to ensure the health of at least 75% of soil by 2030 to guarantee the existence of healthy food, people, nature, and climate.

Priority 2. Crop Management and Cultivation. In a context where the climate is increasingly unpredictable, dependence on fossil fuels must be reduced, and arable land and water resources are diminishing or deteriorating, the intensification of agriculture represents an unprecedented challenge.

Priority 3. Food Quality and Safety. Food quality refers to ensuring that food is nutritious, safe, and acceptable to consumers.

Priority 4. By-product Management and Valorization. Environmental pollution is one of the greatest problems facing humanity today. A key issue is the contamination resulting from the large quantities of waste that are continuously generated.

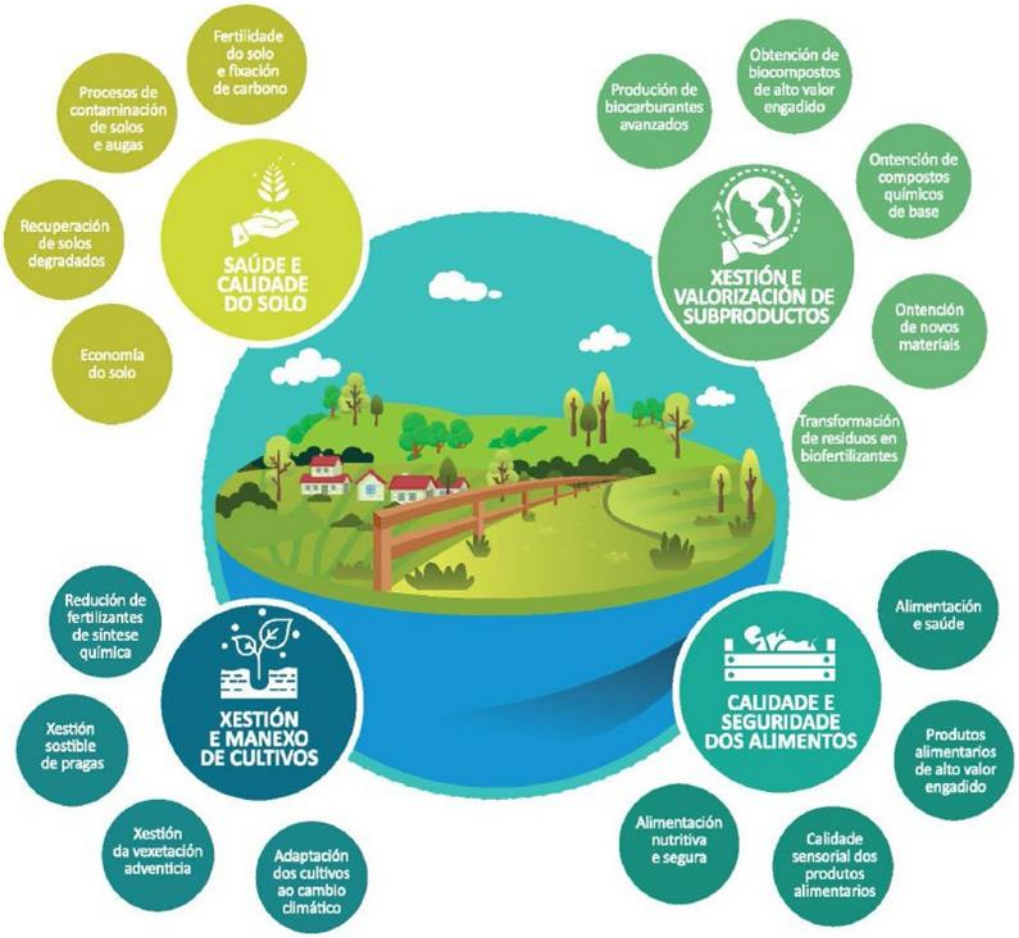


Figure 6. Research Priorities and Lines at the IAA

5. HUMAN RESOURCES

Regarding the staff chapter, the number of members comprising the Institute, as of December 31, 2023, is 149. There are four staff categories: Senior Research Staff, Postdoctoral Research Staff, Predoctoral Research Staff, and Research Support Staff.

Table 1. Number of Members by Category and Gender.

	Senior	Postdoctoral	Predoctoral	Research Support	Total
Women	22	9	48	20	99
Men	14	8	22	6	50
Total	36	17	70	26	149
% Women	61,1%	52,9%	68,6%	76,9%	66,4%
% Men	38,9%	47,1%	31,4%	23,1%	33,6%

Most members (86%) belong to six research groups, four of which have been awarded the distinction of Competitive Reference Groups (GRC) by the Xunta de Galicia.

- Environmental Agrobiology: Soil and Plant Quality (GRC)
- Biotechnology and Quality in Agri-Food Industries and the Environment
- Chemical Engineering 4
- Food and Health Omics (GRC)
- Agricultural and Food Research (GRC)
- Plant, Soil, and By-product Valorization (GRC)

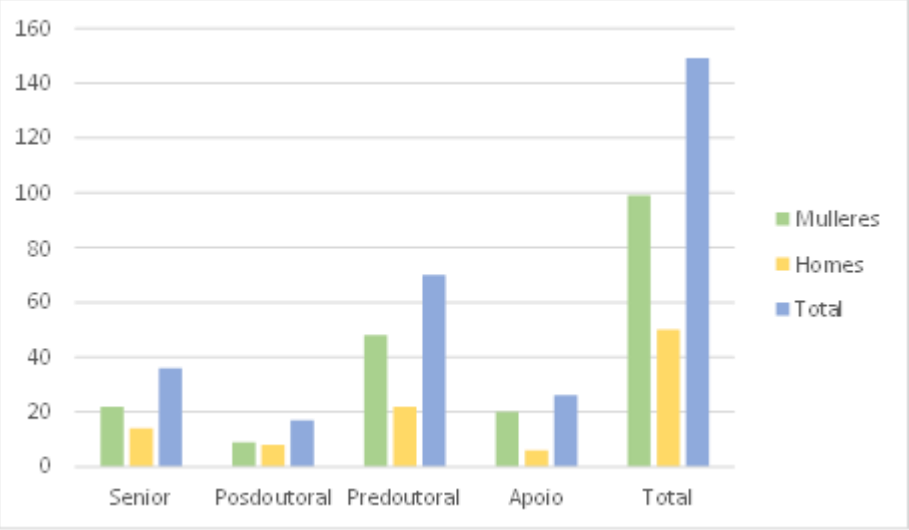


Figure 7. Distribution of Staff Affiliated with the IAA

The distribution of members by research group can be seen in Table 2:

Table 2. Number of Members by Category and Research Group.

	Senior	Postdoctoral	Predoctoral	Support	Total
Environmental Agrobiology: Soil and Plant Quality	2	2	1	2	7
Chemical Engineering 4	4	0	3	0	7
Food and Health Omics	5	1	4	2	12
Agricultural and Food Research	8	5	39	3	55
Plant, Soil, and By-product Valorization	13	9	19	13	54
Biotechnology and Quality in Agri-Food Industries and the Environment	3	0	1	4	8
Without Group	1	0	3	2	6
Total	36	17	70	26	149

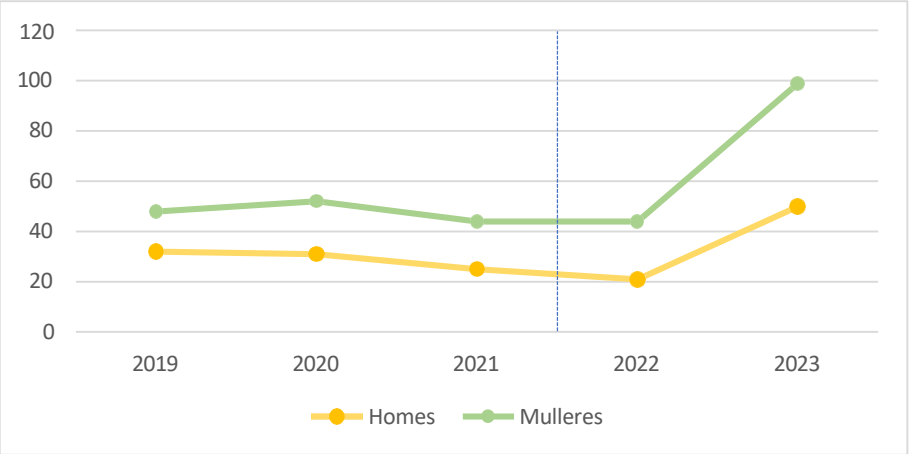
5.1. HUMAN RESOURCES BY CATEGORY

The number of members comprising the Institute increased by 84 during 2023, mainly due to the formal inclusion of predoctoral and support staff from the teams supervised by members classified as Senior Staff. The evolution in the number of members is shown in Table 3.

Table 3. Evolution of the Number of Members by Category and Gender.

	2019*		2020*		2021*		2022		2023	
	M	W	M	W	M	W	M	W	M	W
Staff (No.)	32	48	31	52	25	44	21	44	50	99
Senior Staff	19	18	19	14	18	19	10	14	14	22
Postdoctoral Staff	4	6	4	6	4	10	5	5	8	9
Predoctoral Staff	3	12	4	14	2	11	2	12	22	48
Technical Support Staff	6	12	4	18	1	4	4	13	6	20

*The lack of correlation between the data from 2018–2021 and those from 2022–2023 is due to the fact that, in the first period, the number of members was estimated based on the total number of members belonging to the research groups affiliated with CITACA.



Gráfica 8: Distribución de personal por año.

5.2. TALENT ACQUISITION

During 2023, staff expansion was carried out through a call for new personnel at the University of Vigo. The Scientific Committee approved the incorporation of 12 new Senior members.

Table 4. New Members in the Senior Staff Category.

Surname	Name	Category	Research Group
Araujo Nespereira	Pedro Antonio	Associate Professor	BV1
Carballo Rodríguez	Julia	Associate Professor	ByCIAMA
Escuredo Pérez	Olga	Associate Professor	BV1
Falqué López	Elena	Associate Professor	EQ4
Figueiredo González	María	Distinguished Researcher	AA1
Fuciños González	Clara	Associate Professor	AA1
Pérez Álvarez	María José	Associate Professor	ByCIAMA
Pérez Guerra	Nelson	Full Professor	AA1
Pérez Lamela	Concepción	Associate Professor	AA1
Prieto Lage	Miguel Ángel	Ramón y Cajal Researcher	AA1
Rodríguez López	Luis Alfonso	Associate Professor	ByCIAMA
Torrado Agrasar	Ana María	Associate Professor	AA1

As regards postdoctoral staff, eight new members have joined the team.

Table 5. New Members in the Postdoctoral Staff Category.

Surname	Name	Category	Research Group
de São Pedro Pires	Tânia Cristina	Juan de la Cierva – Training	AA1
Guada Prado	Guillermo	Juan de la Cierva – Training	BV1
Oludemi	Taofiq Ayodele	Juan de la Cierva – Training	AA1
Cao	Hui	Juan de la Cierva – Appointment	AA1
García Pérez	Pascual	Margarita Salas Fellowship	AA1
Cassani	Lucía Victoria	Postdoctoral Fellowship – Xunta de Galicia	AA1
Fraga Corral*	María	Postdoctoral Fellowship – Xunta de Galicia	AA1
Meno Fariñas	Laura	Postdoctoral Fellowship – Xunta de Galicia	BV1

*María Fraga Corral left the University of Vigo on October 15, 2023.

Finally, there are currently a total of 56 new members in the Predoctoral Staff category and 9 members in the Technical Support Staff category.

6. RESEARCH

6.1. SCIENTIFIC OUTPUT

Scientific output is significant and of high quality, as reflected by the number of JCR publications. Moreover, it has shown considerable dynamism in recent years, with strong growth of approximately 45% between 2019 and 2021. It is also noteworthy that the high proportion of Q1 publications has been increasing in recent years, representing 82% of total publications in 2023.

Table 6. Scientific Output.

	2019	2020	2021	2022	2023
JCR Publications	172	260	317	280	317
Publications in Q1 Journals	122	170	230	197	260
Publications in D1 Journals	72	110	109	108	134
Book Chapters	12	14	20	20	24
Books	4	1	2	0	3
Defended Theses	9	4	12	11	7

The information on the JCR classification of journals was obtained from Clarivate (https://jcr.clarivate.com/jcr/home).

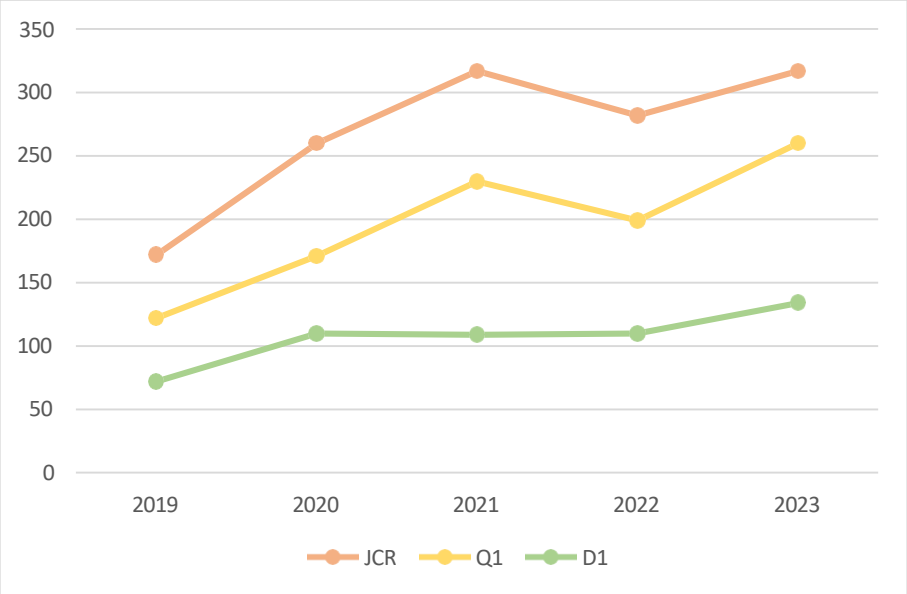


Figure 9: Variation in the Number of Articles Published per Year.

Below is the list of journals in the first decile of their fields in which IAA researchers have published.

Table 7: List of Journals in the First Decile of Their Fields.

Journal	Subject Area	Number of Articles
Advances in Colloid and Interface Science	Chemistry, Physical	1
Antioxidants	Food Science & Technology	6
Aquaculture	Marine & Freshwater Biology	1
Biomedicine and Pharmacotherapy	Pharmacology & Pharmacy	2
Bioresource Technology	Agricultural Engineering	2
Carbohydrate Polymers	Chemistry, Applied	1
Comprehensive Reviews in Food Science and Food Safety	Food Science & Technology	2
Computers in Biology and Medicine	Biology	1
Critical Reviews in Food Science and Nutrition	Food Science & Technology	34
Current Opinion in Food Science	Food Science & Technology	1
Ecological Informatics	Ecology	1
Engineering	Engineering, Multidisciplinary	1
Environmental Research	Environmental Sciences	4
Food Chemistry	Food Science & Technology	22
Food Chemistry: X	Food Science & Technology	5
Food Frontiers	Food Science & Technology	11

Journal	Subject Area	Number of Articles
Food Hydrocolloids	Food Science & Technology	2
Food Research International	Food Science & Technology	4
Global Change Biology	Biodiversity Conservation	1
Journal of Advanced Research	Multidisciplinary Sciences	2
Journal of Agricultural and Food Chemistry	Agriculture, Multidisciplinary	4
Journal of Environmental Management	Environmental Sciences	2
Journal of Hazardous Materials	Environmental Sciences	2
Journal of Water Process Engineering	Water Resources	1
Nano-Micro Letters	Nanoscience & Nanotechnology	1
Neuroscience and Biobehavioral Reviews	Behavioral Sciences	1
Pest Management Science	Entomology	1
Phytochemistry Reviews	Plant Sciences	4
Phytomedicine	Plant Sciences	2
Phytotherapy Research	Pharmacology & Pharmacy	1
Plant Physiology and Biochemistry	Plant Sciences	1
Postharvest Biology and Technology	Agronomy	1
Science of the Total Environment	Environmental Sciences	4
Separation and Purification Technology	Engineering, Chemical	1
SOIL	Soil Science	1
Soil Biology and Biochemistry	Soil Science	2
Trends in Food Science and Technology	Food Science & Technology	1

The complete list of articles, book chapters, books, and defended theses during 2023 can be found in Annexes IV and V.

6.2. AWARDS

Global Ranking of Academic Subjects (GRAS)

In October 2023, the Global Ranking of Academic Subjects (GRAS) was published, ranking universities worldwide according to different research subjects. The University of Vigo stood out in Food Science and Technology, achieving 15th place globally, particularly driven by the IAA. It also ranked in the 201–300 range in Agricultural Sciences, another key research field of the Institute.

Related DUVI News: https://www.uvigo.gal/universidade/comunicacion/duvi/uvigo-situase-posto-15-mundo-ciencia-tecnoloxia-alimentos

Stanford Ranking – Most Cited Scientists

Stanford University annually publishes a database listing the top 2% most cited scientists worldwide. This ranking refers to the previous year (2022). The Institute of Agroecology and Food has 7 researchers included in this ranking, representing 16% of the total at the University of Vigo.

Related DUVI News: https://www.uvigo.gal/universidade/comunicacion/duvi/33-investigadores-uvigo-os-mais-citados-mundo-segundo-ranking-universidade-stanford

Figure 10: Gender Distribution of IAA Researchers in the Top 2% Most Cited.

6.3. OTHER INDICATORS OF SCIENTIFIC OUTPUT

During 2023, there were 2 active international patents and one nationally granted patent. Additionally, these 2 patents have also been filed at the national level.

In addition, a spin-off supervised by a member of the Institute of Agroecology and Food was created.

The list of patents and spin-offs can be found in Annex VI.

7. INNOVATION, TECHNOLOGY TRANSFER, AND VALORIZATION

7.1. R&D&I ACTIVITY, TECHNOLOGY TRANSFER, AND FUNDING

The capacity to secure competitive funding is significant. Notably, returns from international programs, particularly within the Horizon Europe framework, stand out, where, despite a limited number of projects, substantial income is achieved, especially through coordinated projects. Participation in the calls of the National R&D&I Plan also demonstrates the competence and leadership of the Principal Investigators (PIs) in charge. In total, 18 projects were initiated in 2023: 8 European, 7 national, and 3 regional.

The funding secured amounted to €5,677,980.85, with particular emphasis on the 8 international projects.

Table 8. Secured Funding and R&D&I Activities Carried Out.

	2019		2020		2021		2022		2023	
	Nº	Funding (€)	Nº	Funding (€)	Nº	Funding(€)	Nº	Funding (€)	Nº	Funding* (€)
Total Projects	10	2.022.786,00	9	1.913.031,75	5	730.943,82	18	2.098.675,66	18	5.677.980,85
International Projects	3	1.146.716,00	3	1.197.083,75	1	250.904,88	1	172.828,75	8	4.685.217,44
H2020	1	987.875,00	2	1.053.867,50	1	250.904,88	1	172.828,75	7	4.487.785,75
Interreg	-	-	1	143.216,25	-	-	-	-	1	197.431,69
Others	2	158.841,00	-	-	-	-	-	-	-	-
National Projects	5	686.070,00	4	485.948,00	1	164.560,00	6	907.420,00	7	907.761,00 €
Regional Projects	1	190.000,00	2	230.000,00	3	315.478,94	11	1.018.426,91	3	85.002,41
Other Projects	1	-	-	-	-	-	-	-	-	-
Contracts and Agreements	132	396.788,20	115	376.044,94	98	466.111,70	110	441.074,23	111	401.342,73

*The projects in which Jesús Simal Gándara is listed as the Principal Investigator (PI) are financed at 50%.

A strength of the Institute of Agroecology and Food is technology transfer. In 2023, the research staff signed a total of 111 R&D contracts with companies, securing €401,342.73 through these collaborative activities. The complete list is provided in Annex III.

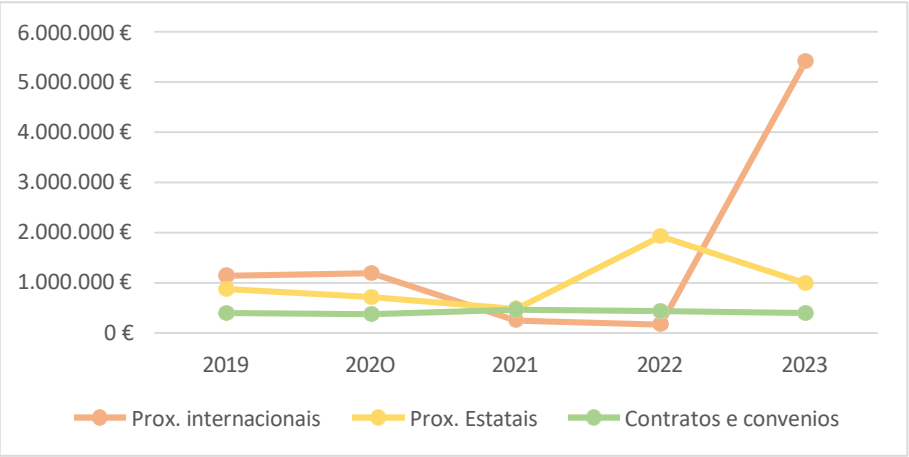


Figure 11: Variation in Funding Secured by IAA Staff by Type and Year.

Currently, IAA members coordinate 7 Horizon Europe projects: SoildiverAgro, Inbestsoil, Wheatbiome, AGROSUS, SOB4ES, PROMISEANG, and SOSFood.

During 2023, 14 international projects and 31 national and regional projects were active, securing a total funding of €7,915,459.64. Annex II provides a detailed list of these projects, as well as the other projects that remained active throughout the year.

Figure 12: Funding Secured by Research Staff during 2023.

8. COMMUNICATION AND OUTREACH

8.1. COMMUNICATION

Throughout 2023, the Institute made a significant step in its digital presence by launching its official website, available at https://iaa.uvigo.gal/en/. This online resource serves as a comprehensive source of information, providing details on key indicators, the Institute's composition, relevant events, and the latest news related to both the IAA and its members.

In addition to the creation of the website, the Institute's official social media networks were established and strengthened. Currently, the IAA maintains an active presence on various platforms, including Facebook, LinkedIn, Twitter, Instagram, and YouTube. These platforms provide an interactive space where the Institute can share relevant content, engage with its audience, and stay up to date with sector trends.

Several promotional videos were created, which can be viewed on the YouTube channel and provide an overview of the work and mission of the IAA. These videos are available at the following link: https://www.youtube.com/@IAA_UVigo.

8.2. OUTREACH

News from the Institute of Agroecology and Food is published in DUVI, the Univerity of Vigo´s official news outlet. In 2023, information was collected on budget allocations, achievements, and projects related to the IAA. Annex VII contains a chronological compilation of news from the entire year.

Press Coverage of the Institute of Agroecology and Food

Outside the university context, during 2023, various media outlets covered the activities of the IAA. Publications such as Faro de Vigo, La Región, La Voz de Galicia, and GCiencia, among others, shared news about the Institute's projects and achievements. In total, the IAA appeared in 8 different media outlets, both regional and local, highlighting the public interest and relevance of the work carried out by the Institute.

Anexo VII provides a complete list of links to news articles covering the latest developments at the Institute of Agroecology and Food.

9. INFRASTRUCTURE

9.1. RESEARCH FACILITIES

The Institute has its formal headquarters and main facilities on the first floor of the Campus Auga Building, at the Ourense Campus, occupying an area of 629.20 square meters, of which 350.90 square meters correspond to 9 laboratories. There are also laboratories associated with the Institute in other parts of the Campus Auga Building, in the Polytechnic Building of Ourense, and in the Faculty of Biology in Vigo, where the Institute's research staff carry out a significant part of their work.

Regarding the main common resources available to the Institute, the following should be highlighted:

Pilot Plant for Agri-Food Industries (Auga Campus Building)

The pilot plant enables research groups from the Institute and companies that request its services to scale up basic research results to an industrial level. To cover the most important areas of the Galician food sector, four processing lines were designed:

- Dairy products line.
- Fish/meat and seafood/meat products line.
- Vegetable products, canned goods, and bakery/pastry products line.
- Wine line.
- Beer line.

The equipment in these lines allows the processing and control of food under conditions like those used in agri-food industries, to study and optimize food production processes, and to evaluate the influence of different parameters on product quality.

Integrated Comprehensive Analytical Platform for Mass Spectrometry (Auga Campus Building – CACTI)

This infrastructure consists of two high-resolution, exact-mass mass spectrometry systems, which include:

1. **Nano LC 425 system and SCIEX Triple TOF 660 mass spectrometer**: This equipment is dedicated to proteomics, one of the high-throughput or "omics" analysis techniques, focused on the large-scale study of proteins and providing information about their

biological function.

2. **UPLC Exion LC AD system and SCIEX Triple TOF 660 mass spectrometer**: This system enables advanced research in the environmental and agri-food fields, opening new frontiers in the study of persistent organic pollutants (POPs), antimicrobials, and their metabolites, as well as their interactions with other components of environmental compartments (water, sediments, sludge, etc.) and agri-food samples (proteins, lipids, carbohydrates, etc.).

Waste Valorization Laboratory (Greenhouse)

This laboratory is equipped with a steam explosion reactor and a titanium continuous-mixing reactor.

The steam explosion reactor features a 2 L digester and includes a steam boiler capable of reaching 250 °C at the corresponding saturation pressure. The steam-based heating configuration allows operation in a matter of seconds (with clear advantages over systems that use liquid water, which require times ranging from 30 minutes to several hours). The reactor is opened via a discharge valve that enables sudden decompression. Pressure and temperature are controlled automatically through multiple sensors.

The titanium continuous-mixing reactor allows operation under different stirring regimes (up to 100 rpm), pressures (up to 150 bar), and temperatures (up to 200 °C).

Hg and organomercury species analysers in environmental and food matrices (Campus Auga Building)

Analyzer for organic Hg species (methyl-Hg and ethyl-Hg) using high-performance liquid chromatography with atomic fluorescence detection (HPLC-AFS). It includes an FS detector for Hg, a CV generator, software, an Hg lamp, an autosampler, a peristaltic pump, and a high-performance liquid chromatograph for Hg species measurement (HPLC-AFS). This equipment enables the determination of organomercury species in various environmental matrices (water, soils, sediments, vegetation), food samples, and waste from different sources. In all cases, prior digestion of the matrices is required.

Total Hg analyser using cold vapor atomic fluorescence and absorption spectroscopy (CV-AFS-AAS). It includes an autosampler (36–89 positions), a mixing reaction block, a gas purification system, a peristaltic pump, an atomic fluorescence detector (CV-AFS), and a dedicated software interface. This equipment is used to determine total Hg levels in aqueous extracts from environmental matrices (water, soils, sediments, vegetation), food, and different types of by-products.

Large-format X-ray computed tomography (CT-X) and high-resolution equipment (Campus Auga Building)

X-ray computed tomography (CT) is a technique that allows the internal structure of objects to be studied without altering them. Using the Yxlon FF20 CT system, it is possible to analyze samples weighing up to 17 kg, with maximum dimensions of 28 cm in diameter and 70 cm in height. Given these sample size limitations, this tomograph is not intended for medical use (the most common application of X-ray CT), but rather for the precise determination of the morphological characteristics of the internal structure of smaller samples.

CT analysis can be applied in different fields:

- In soil science, it is commonly used for studying pore networks, segmenting the different soil components, and modelling transport processes.
- In geology, for the parameterization of the morphological properties of rocks and minerals.
- In materials science, to characterize the three-dimensional structure of polymers, foams, and ceramics, among others.
- In metrology, for measuring components in the automotive or aerospace industries.
- In palaeontology, for the study of fossils.
- It can also be used in the study and preservation of cultural heritage, as it allows the analysis of the composition of fragile objects (vessels, manuscripts, paintings, etc.) without the need for sampling or altering their integrity.

Third-category radioactive facility (Campus Auga Building)

This facility allows work with unsealed radioactive sources of tritium (^{3}H) and carbon-14 (^{14}C). Among the techniques already in use are the determination of bacterial growth in soils and water using the method of leucine incorporation labelled with ^{3}H, as well as the determination of fungal growth in the same matrices using the method of sodium acetate incorporation labelled with ^{14}C into ergosterol.

This facility is equipped with an HPLC system with a DAD detector connected to a fraction collector used for ergosterol separation, as well as a liquid scintillation counter.

Phytotron (Faculty of Biology; Greenhouse)

A phytotron is a climate-controlled chamber for plant growth and cultivation that allows simultaneous control of temperature, humidity, and lighting, creating the optimal climatic conditions required by the species being cultivated. Three climate chambers equipped with the phytotron system are located at the Faculty of Biology, and one will be operational in the Greenhouse by the end of 2022.

The phytotron can be used for a variety of purposes, including, among others, in vitro cultivation of different plant varieties, the study of the chemical profile of plant species under stress conditions and its influence on diet, the study of the invasive capacity of alien species in Galicia, or the bio-herbicidal potential of natural compounds on different weed species.

Greenhouse

In addition to hosting other facilities, the greenhouse allows plant cultivation under semi-controlled conditions, enabling a larger scale than the phytotron and conditions that are closer to real-life environments. It enables trials of new fertilizers, bio-pesticides, etc. It also allows phytotoxicity assays of different types of substances to be carried out.

Among the objectives of this facility, in addition to small-scale plant cultivation for research purposes, are the dissemination of plant production methods and the provision of scientific and technical advice to the community, both academic and non-academic.

Research, Transfer and Innovation Centre (CITI) and Scientific and Technological Support Centre for Research (CACTI)

Finally, it should also be noted that the Institute's research staff may make use of the pilot plant at the Research, Transfer and Innovation Centre (CITI). This facility is highly versatile, allowing both scale-up trials of processes developed in research laboratories, as well as proof-of-concept studies and experimental production.

The CACTI houses the ICP-OES, an infrastructure incorporated during the past year. Work is currently underway on the LIMS system to make all the Institute of Agroecology and Food's infrastructure available to both researchers and society.

9.2. SINGULAR LABORATORIES

The Interreg Net4Food project has as one of its objectives the creation of a structure prior to the Iberian Food Laboratory, in collaboration with the Polytechnic Institute of Bragança (IPB), which will consist of the development of a set of actions that will ultimately be capitalised by the IFL (Iberian Food Laboratory), thereby laying the foundations for its future operation.

The IAA assumes the institutional challenge and commitment of the University of Vigo to improve the positioning and international visibility of the Galicia–Northern Portugal euroregion as a bioregion specialised in the transition towards safe, sustainable and resilient food systems, as well as a reference in R&D&I in agri-food systems.

With the establishment of the Iberian Laboratory, the aim is to:

- Develop joint multidisciplinary research projects between the Institute and the Polytechnic Institute of Bragança (IPB).
- Define collaborative strategies for the mobility and training of research staff.
- Establish partnerships to promote a stronger joint presence in European programmes.

10. FOLLOW-UP OF THE ACTION PLAN

The following section analyses the follow-up plan for the actions set out in the Institute's report published in November 2022. Given that the current funding of the IAA is very limited, the actions implemented are still scarce. An assessment is made of whether the tasks have been completed and, where evidence is available, of the degree of completion of those tasks.

10.1. AXIS 1. RESEARCH

Activity 1.1 Porfolio of Strategic Projects

A high number of projects have been secured in national and international calls.

Activity 1.2 Internal Seminar Programme

To be launched in 2024.

Activity 1.3 Call for Collaborative Projects

Not started, pending funding.

Activity 1.4 Infrastructure and Equipment Programme

The mapping of existing infrastructure and equipment (T.1.4.1) is currently being carried out. The next two steps (needs analysis and funding plans) have not yet been initiated and will begin in 2024.

In 2022, four pieces of infrastructure were acquired under the Xunta de Galicia agreement: (1) ICP-OES installed at CACTI – Campus Auga Building; (2) a large-scale germination chamber installed in the greenhouse at the Ourense Campus; (3) a titanium Versoclave installed in the

greenhouse at the Ourense Campus; and (4) automatic pollen samplers.

Activity 1.5 Scientific Production and Open Science Policy

In 2023, a total of 243 Open Access articles were published, which, together with those published in 2022, amount to a total of 460 articles.

Table 9. Summary of the tasks carried out under Axis 1 of the action plan for the 2022–2023 period.

	Tasks	Monitoring Indicator	Completed	Period
1.1	Portfolio of Strategic Projects	Number of R&D&I projects submitted aligned with the Agenda	36	01/01/2022-31/12/2026
1.2	Internal Seminar Programme	Number of internal seminars organised	Not started	01/01/2022-31/12/2026
1.3	Collaborative Project Programme	Number of internal collaborative projects funded	Not started	01/01/2022-31/12/2026
1.4	Infrastructure and Equipment Programme	Number of equipment items acquired	4	01/01/2022-31/12/2026
1.5	Scientific Production and Open Science Policy	Number of open access articles published	460	01/01/2022-31/12/2026

10.2. AXIS 2. TALENT AND HUMAN RESOURCES

Activity 2.1 Analysis of staffing needs

Following the call for affiliation, the identification process will be carried out during 2024.

Activity 2.2 Talent attraction strategy

Successful external recruitment:

Ramón y Cajal Fellowships:

- Daniel Arenas Lago, Plant, Soil, and By-product Valorization.
- María Paz Otero Fuertes, Agricultural and food research.
- Patricia Reboredo Rodríguez, Food and Health Omics.

Juan de la Cierva Fellowships:

- Andrés Rodríguez Seijo, Plant, Soil, and By-product Valorization.
- Guillermo Guada Prado, Plant, Soil, and By-product Valorization.
- Hui Cao, Agricultural and food research.
- Paula Pérez Rodríguez, Plant, Soil, and By-product Valorization.
- Pedro Miguel Ferreira Santos, Plant, Soil, and By-product Valorization.
- Tânia Cristina de São Pedro Pires, Agricultural and food research.

Margarita Salas Fellowships:

- David López González, Environmental Agrobiology: quality, soils and plants.
- Pascual García Pérez, Agricultural and food research.

University of Vigo Postdoctoral Fellowships:

- Laura Meno Fariñas, Plant, Soil, and By-product Valorization.
- María Shantal Rodríguez Flores, Plant, Soil, and By-product Valorization.
- Pablo García del Río, Plant, Soil, and By-product Valorization.
- Vanesa Santás Miguel, Plant, Soil, and By-product Valorization.

Internal talent recruitment has not yet been implemented due to a lack of funding.

Activity 2.3 Programme for the recruitment of technical support and research management staff

Two laboratory technicians (one-year contracts each) were recruited through the Investigo programme in the 2022 and 2023 calls. Two additional management technicians (six-month contracts each) were also recruited through the Xunta de Galicia agreement. A PTA contract was applied for in the 2022 call without success. It was re-applied for in 2023 and is currently pending resolution. To date, it has not been possible to access more stable recruitment programmes.

Activity 2.4 Researcher and Visiting Staff Mobility Programme

Not started due to lack of funding.

Table 10. Summary of the tasks carried out under Axis 2 of the action plan for the 2022–2023 period.

	Tasks	Monitoring Indicator	Completed	Period
2.1	Analysis of research, technical, and management staff needs	Table of staffing needs	Not started	01/01/2022-31/12/2026
2.2	Talent recruitment strategy	Number of human resources calls successfully applied to	45	01/01/2022-31/12/2026
2.3	Programme for the recruitment of technical support and research management staff		4	01/01/2022-31/12/2026
2.4	Researcher and Visiting Staff Mobility Programme	Number of researchers who completed a research stay / Number of visiting researchers	Not started	01/01/2022-31/12/2026

10.3. AXIS 3. TRAINING

Activity 3.1 Design of a Master's Programme in Agroecology and alignment with existing programmes

Pending negotiation with the Faculty of Science.

Activity 3.2 Industrial Doctorate Programme

Not started.

Activity 3.3 Early-career research support programme

Not started due to lack of funding.

Activity 3.4 Mentoring programme to support the research careers of early-stage researchers joining the centre

Not started due to lack of funding.

Activity 3.5 *Summer School in Agroecology and Food*

Not started due to lack of funding.

Activity 3.6 Training courses in transversal skills and technical competencies

Not started due to lack of funding. A needs assessment mapping will be carried out in 2024.

Table 11. Summary of the tasks carried out under Axis 3 of the action plan for the 2022–2023 period.

	Tasks	Monitoring Indicator	Completed	Period
3.1	Design of a Master's Programme in Agroecology	Feasibility study	Not started	01/01/2022-31/12/2026
3.2	Industrial Doctorate Programme	Number of applications to industrial doctorate programmes	Not started	01/01/2022-31/12/2026
3.3	Early-career research support programme	Number of early-career research grants awarded	Not started	01/01/2022-31/12/2026
3.4	Mentoring Programme	Number of active mentors / Number of mentored early-stage researchers	Not started	01/01/2023-31/12/2026
3.5	Summer School in Agroecology and Sustainable Food	Number of Summer Schools organised	Not started	01/01/2022-31/12/2026
3.6	Training courses in transversal skills and technical competencies	Number of course participants	Not started	01/01/2022-31/12/2026

10.4. AXIS 4. TRANSFER AND INNOVATION

Activity 4.1 Forum for engagement with the Galician agri-food sector

The Institute has an active presence in the Galician Food Cluster (CLUSAGA) and in the Wine Technology Platform (PTV).

Within the framework of the POCTEC NET4FOOD project, meetings with the sector were held.

Activity 4.2Promotion of collaborative projects and contracts

No, except for FEADER Operational Group projects. In the 2022–2023 period, 2 Operational Groups were launched.

Activity 4.3 Chair in Agroecology and Food

This does not exist, although the IAA is currently part of the Coren Chair.

Activity 4.4 Development of a service catalogue and technological offer

The service catalogue is currently in the internal approval phase.

Table 12. Summary of the tasks under Axis 4 of the action plan.

	Tasks	Monitoring Indicator	Completed	Period
4.1	Forum for engagement with the Galician agri-food sector	Number of events in which the Institute's research and management staff participate	2	01/01/2022-31/12/2026
4.2	Promotion of collaborative projects, contracts and chairs	Number of projects and contracts promoted with other stakeholders	2	01/01/2022-31/12/2026
4.3	Chair in Agroecology and Food	Chair established	Not started	01/01/2022-31/12/2026
4.4	Development of a service catalogue and technological offer	Number of services and technological offerings identified and promoted	In progress	01/01/2022-31/12/2026

10.5. AXIS 5. INTERNATIONALISATION

Activity 5.1 Mapping of collaborations and strategic alliances

Activity not started.

Activity 5.2 Creation of the Iberian Food Laboratory euroregional institute

The Iberian Food Laboratory is one of the main objectives of the Net4Food project, which started in September 2023 and will run until December 2025.

Activity 5.3 Positioning in networks and platforms

Not started.

Activity 5.4 Participation in European projects

Table 13. European projects launched in 2022 and 2023.

Project	Call	Funding amount (€)
Root2Resilience - Root phenotyping and genetic improvement for rotational crops resilient to environmental change	HORIZON.2.6 - Food, Bioeconomy Natural Resources, Agriculture and Environment	172.828,75
INBESTSOIL - Monetary valuation of soil ecosystem services and creation of initiatives to invest in soil health: setting a framework for the inclusion of soil health in business and in the policy making process	Horizon Europe Framework Programme (HORIZON)	642.812,00
WHEATBIOME - Unravelling the potential of the wheat microbiome for the development of healthier, more sustainable and resilient wheat-derived food & feed products	HORIZON.2.6 - Food, Bioeconomy Natural Resources, Agriculture and Environment	454.125,00
NET4FOOD - Red de Investigación e Innovación para el área alimentaria en la región transfronteriza	Programa Operativo de Cooperación Transfronteiriza España-Portugal	197.431,69
SOB4ES - Integrating SOil Biodiversity to Ecosystem Services: testing cost-effectiveness of Soil Biodiversity indicators and the provision of soil biodiversity-based Ecosystem Services to build better land management solutions that effectively implement the EU Soil Strategy	HORIZON.2.6 - Food, Bioeconomy Natural Resources, Agriculture and Environment	1.055.625,00
MRV4SOC - Monitoring, Reporting, and Verification of Soil Organic Carbon and Greenhouse Gas Balance	HORIZON.2.6 - Food, Bioeconomy Natural Resources, Agriculture and Environment	140.255,00
AGROSUS - Agroecological strategies for sustainable weed management in key European crops	Horizon Europe Framework Programme (HORIZON)	926.625,00
BIOSERVICES - Linking soil biodiversity and ecosystem functions and services in different land uses: from the identification of drivers, pressures and climate change resilience to their economic valuation	HORIZON.2.6 - Food, Bioeconomy Natural Resources, Agriculture and Environment	686.875,00
PROMISEANG - Alternative PROteins from MIcrobial fermentation of non-conventional SEA sources for Next-Generation food, feed and non-food bio-based applications	HORIZON.2.6 - Food, Bioeconomy Natural Resources, Agriculture and Environment	581.468,75

Table 14. Summary of the tasks under Axis 5 of the action plan.

	Tasks	Monitoring Indicator	Completed	Period
5.1	International Partnerships Policy	Number of partnerships established through collaboration agreements	Not started	01/01/2022-31/12/2026
5.2	Creation of the Iberian Food Laboratory euroregional institute	IFB creation project	In progress	01/01/2022-31/12/2026
5.3	Positioning in networks and platforms	Number of participations in meetings of relevant networks and platforms	Not started	01/01/2022-31/12/2026
5.4	Participation in European projects	Number of European projects secured	9	01/01/2022-31/12/2026

10.6. AXIS 6. POSITIONING AND VISIBILITY

Activity 6.1 Strategic alliances in the R&D&I field

Not started.

Activity 6.2 Positioning within the sectoral environment and organisations

The IAA is part of the governing board of CLUSAGA and is also a member of the Wine Technology Platform (PTV). It participates in meetings of the CLUSAGA Board of Directors and the CLUSAGA Innovation Committee.

Activity 6.3 Communication programme

News is published on the IAA website: https://iaa.uvigo.gal/gl/actualidade/novas/. In 2023, a total of 8 news items were published.

Activity 6.4 Outreach and dissemination programme

Not started. The IAA Communication Plan is still pending.

Table 15.Summary of the tasks under Axis 6 of the action plan.

	Tasks	Monitoring Indicator	Completed	Period
6.1	R&D&I Strategic Alliances	Number of alliances established	Not started	01/01/2022-31/12/2026
6.2	Positioning within the sectoral environment and organisations	Number of meetings attended	8	01/01/2022-31/12/2026
6.3	Communication Programme	Number of news items published	8	01/01/2022-31/12/2026
6.4	Outreach Programme	Number of dissemination events held	Not started	01/01/2022-31/12/2026

10.7. AXIS 7. GOVERNANCE, MANAGEMENT AND FUNDING

Activity 7.1 Governance implementation

The IAA Governing Board was established on 10 May 2023.

The IAA Scientific Committee was also constituted on 10 May 2023.

The External Advisory Committee of the IAA was constituted on 10 May 2023.

The IAA Equality Committee was constituted on 30 November 2023.

Activity 7.2 Internal regulations and research staff affiliation

The internal regulations of the IAA were approved at the Scientific Committee meeting held on 10 May 2023. The affiliation criteria were approved at the Scientific Committee meeting held on 25 May 2023.

Activity 7.3 Welcome programme for Institute research staff

Not started.

Activity 7.4 Monitoring system and dashboard

This report (2023) is the first to be produced since the formal establishment of the IAA.

Activity 7.5 Funding plan

Funding is expected to come from the following identified sources:

- Baseline funding from calls for centres and institutes of the Xunta de Galicia: the IAA was unable to apply to the 2023 Xunta de Galicia call.
- Human resources calls at regional, national and European level for both research and research support staff. In total, 41 contracts were secured through research grants such as Ramón y Cajal, Juan de la Cierva, Margarita Salas, and grants from the Xunta de Galicia and the FCT: €1,308,190.00.
- R&D&I project calls at regional, national and European level, with emphasis on collaborative projects: €5,677,980.85.
- Income generated through services provided using the centre's equipment and laboratories: €332,407.73.
- Agreements with the University of Vigo for the provision of space, equipment and staff: agreement pending.

Table 16. Summary of the tasks under Axis 7 of the action plan.

	Tasks	Monitoring Indicator	Completed	Period
7.1	Governance implementation	Number of meetings of governing bodies	5	01/01/2022-31/12/2026
7.2	Internal regulations and research staff affiliation	Number of research staff affiliated to the Institute	123	01/01/2022-30/06/2022
7.3	Research staff welcome programme	Number of researchers hosted	Not started	01/01/2022-31/12/2026
7.4	Monitoring system and dashboard	Number of analyses of dashboard indicators	1	01/01/2022-31/12/2026
7.5	Funding plan	Volume of funding secured	8.986.768,58 €	01/01/2022-30/12/2026

ANNEXES

ANNEX I: MEMBERS OF THE IAA (31 DECEMBER 2023)

Senior Research Staff

Table 17: Senior Research Staff Affiliated with the IAA.

Surname	Name	Category
Alonso Vega	María Flora	Associate Professor
Araujo Nespereira	Pedro Antonio	Associate Professor
Arias Estévez	Manuel	Full Professor
Cancho Grande	Beatriz	Full Professor
Carballo García	Francisco Javier	Full Professor
Carballo Rodríguez	Julia	Associate Professor
Escuredo Pérez	Olga	Associate Professor
Falqué López	Elena	Associate Professor
Fernández Calviño	David	Associate Professor
Fernández González	María	Associate Professor
Figueiredo González	María	Distinguished Researcher
Franco Matilla	María Inmaculada	Full Professor
Fuciños González	Clara	Associate Professor
Garrote Velasco	Gil	Full Professor
González Barreiro	Carmen	Associate Professor
Gullón Estévez	Beatriz	Ramón y Cajal Researcher
Iglesias Briones	María Jesús	Full Professor
López Periago	José Eugenio	Associate Professor
Martínez Carballo	Elena	Full Professor
Martínez Suárez	Sidonia	Associate Professor
Nóvoa Muñoz	Juan Carlos	Full Professor
Pérez Álvarez	María José	Associate Professor
Pérez Gregorio	María Rosa	Ramón y Cajal Researcher
Pérez Guerra	Nelson	Full Professor
Pérez Lamela	Concepción	Associate Professor
Prieto Lage	Miguel Ángel	Ramón y Cajal Researcher
Reigosa Roger	Manuel Joaquín	Full Professor
Rial Otero	Raquel	Associate Professor
Rodríguez López	Luis Alfonso	Associate Professor
Rodríguez Rajo	Francisco Javier	Full Professor
Romaní Pérez	Aloia	Ramón y Cajal Researcher

Apellidos	Nombre	Categoría
Sánchez Moreiras	Adela María	Full Professor
Seijo Coello	María del Carmen	Full Professor
Simal Gándara*	Jesús	Full Professor
Torrado Agrasar	Ana María	Associate Professor
Xiao	Jiambo	Ramón y Cajal Researcher

Jesús Simal Gándara participated in the IAA at 50% until 30 November 2023, when he left the Institute of Agroecology and Food and became affiliated with the Interuniversity Research Centre for Atlantic Cultural Landscapes (CISPAC).

Postdoctoral Research Staff

Table 18: Postdoctoral Research Staff affiliated with the IAA.

Surname	Name	Category
Arenas Lago	Daniel	Juan de la Cierva Incorporation Fellowship
Cao	Hui	Juan de la Cierva Incorporation Fellowship
Cassani	Lucía Victoria	Posdoctoral Xunta A
de São Pedro Pires	Tânia Cristina	Juan de la Cierva Formación
Ferreira Santos	Pedro Miguel	Juan de la Cierva Training Fellowship
García del Río	Pablo	Postdoctoral Fellowship (Xunta A)
García Pérez	Pascual	Margarita Salas Fellowship
González Orenga	Sara	Margarita Salas Fellowship
Guada Prado	Guillermo	Juan de la Cierva Training Fellowship
López González	David	Margarita Salas Fellowship
Oludemi	Taofiq Ayodele	Juan de la Cierva Training Fellowship
Pérez Rodríguez	Paula	Juan de la Cierva Incorporation Fellowship
Reboredo Rodríguez	Patricia	Juan de la Cierva Incorporation Fellowship
Rodríguez Flores	María Shantal	Postdoctoral Fellowship (Xunta B)
Rodríguez Seijo	Andrés	Juan de la Cierva Incorporation Fellowship
Santás Miguel	Vanesa	Postdoctoral Fellowship (Xunta A)

PPredoctoral Research Staff

Table 19: Predoctoral Research Staff affiliated with the IAA.

Surname	Name	Category
Acconcia	Sara	Proyecto Investigación
Álvarez Rodríguez	Sara	Xunta de Galicia Predoctoral

Amigo Fernández	Rubén	Indefinido/a
Añibarro Ortega	Mikel	FCT
Aurora Soares da Silva	María	Técnica de laboratorio
Baptista Antap	Matilde María	FCT
Belhoula	Nora	
Boubertakh	Asma	
Boya	Ouyang	China Scholarship Council
Calvo Portela	Noemí	Proyecto Investigación
Carpena Rodríguez	María	Xunta de Galicia Predoctoral
Carrera Otero	Lucía	FPI
Chamorro	Franklin	Contrato cargo proyecto
Chouza Carou	Manuela	
Cid Fernández	José Ángel	Profesor/a Asociado/a
Correa Gomes	Leonardo	FCT
da Silva	Lais	FCT
Dias Lorenzo	Augusto Duarte	Por circunstancias de la producción
Echave Álvarez	Javier	Contrato cargo proyecto
Feifei	Ma	-
Gallego García	Laura	Proyecto Investigación
García Oliveira	Paula	Xunta de Galicia Predoctoral
García Vidueira	Raúl	Proyecto Investigación
Ghorab	Asma	
Gómez Pérez	Icía	Proyecto Investigación
Gonçalves Marcelino	Sandra Andreia	FCT
González Feijóo	Rocío	Proyecto Investigación
González Pereira	Antía	Xunta de Galicia Predoctoral
Hurtado Shiraishi	Carlos Seiti	FCT
Jingjing	Zhang	-
Köninger	Julia	Proyecto Investigación
Lobato Rodríguez	Álvaro	FPI
Long	Chen	-
Luaces Pérez	Andrea	
Maia Ribeiro	Lucía Marisa	FCT
Martínez Castillo	Cecilia Araceli	Proyecto Investigación
Mascoloti Sprea	Rafael	FCT
Molina Vargas	Adriana Katherine	FCT
Nakib	Rifka	
Pardellas Soto	Jorge	Proyecto Investigación
Parente Sendín	Andrea	Proyecto Investigación
Paschoalinotto	Beatriz Helena	FCT
Pauline	Donn	-

Pedro Xavier	Virginie Isabelle	FCT
Pérez Pérez	Alba	FPU
Ping	Zhou	-
Pires Fernandes	Filipa Alexandra	FCT
Pires Júnior	Eleomar de Oliveira	FCT
Qihui	Huang	-
Quanyong	Wu	China Scholarship Council
Quigley	Elise	Proyecto Investigación
Rodríguez González	Laura	FPU
Rodríguez González	Miriam	
Rodríguez López	Lucía	FPU
Rodríguez Martínez	Beatriz	Predoctoral-UVIGO
Rodríguez Rebelo	Fernando	FPU
Rodríguez Sanz	Andrea	Proyecto investigación
Rojo Martínez	Sergio	
Roldán Reascos	Gloria	
Rui	Lu	China Scholarship Council
Sánchez Espinosa	Kenia Caridad	Indefinido/a
Seyyedimansour	Sepidar	-
Shangyue	Xiao	-
Shengxiong	Chen	China Scholarship Council
Shiye	Lin	China Scholarship Council
Villalón Melo	Altea	
Wenqi	Huang	China Scholarship Council
Yi	Liu	-
Yuxi	Wen	-
Zhenyang	Liu	-

Research Support Staff

Table 20: Research Support Staff.

Apellidos	Nombre	Categoría / Tipo de contrato
Míguez Quintas	Martín	-
Diéguez Pérez	Marta	Indefinido
Otero Fuertes	María Paz	Indefinido
Díaz Tielas	Carla	Indefinido
Vieites Álvarez	Yedra	Indefinido
Rubira Pérez	Alexandre	Proyecto Investigación
Diéguez Antón	Ana	Indefinido
Blanco Losada	Iago	Proyecto Investigación

Apellidos	Nombre	Categoría / Tipo de contrato
Borrajo Cid	Alba	Programa Investigo
Campillo Cora	Claudia	Indefinido
Gómez Armesto	Antía	Indefinido
Meno Fariñas	Laura	Indefinido
Nóvoa Durán	Aarón	Indefinido
Rodríguez Salgado	Isabel	Indefinido
Romeo Río	Silvia	Por circunstancias da producción
Vázquez Blanco	Raquel	Indefinido
Méndez López	Melissa	Por circunstancias da producción
Delgado Gómez	Andoni	Programa Investigo
Cutillas Barreiro	Laura	Indefinido
Araujo Álvarez	María del Mar	Indefinido
Pombar Gómez	Ariana	Indefinido
Rodríguez Souto	Yolanda	Indefinido
Sieiro Gallardo	Carmen María	Indefinido
González Dacal	Enea	Programa Investigo
Briz Cid	Noelia	Proyecto Investigación
Ferradas	Ismaes	Por circunstancias da producción

ANNEX II: PROJECTS ACTIVE IN 2023

International Projects

Table 21: Active International Projects in 2023.

Researcher	Programme	Funding	Title	Start Date	End Date
Iglesias Briones, María Jesús	H2020-EU.1.3. - EXCELLENT SCIENCE	250.904,88 €	SOPLAS - Macro and Microplastic in Agricultural Soil Systems.	01/01/2021	31/12/2024
Fernández Calviño, David	HORIZON 2.6	642.812,00 €	INBESTSOIL - Monetary valuation of soil ecosystem services and creation of initiatives to invest in soil health.	01/01/2023	31/12/2026
Simal Gándara, Jesús Pérez Gregorio, María Rosa	HORIZON 2.6	605.500,00 €	WHEATBIOME - Unravelling the potential of the wheat microbiome.	01/01/2023	31/12/2026
Fernández Calviño, David	INTERREG	197.431,69 €	NET4FOOD - Red de Investigación e Innovación para el área alimentaria en la región transfronteriza.	01/04/2023	31/12/2025

Researcher	Programme	Funding	Title	Start Date	End Date
Reigosa Roger, Manuel Joaquín	H2020 EU.3.2. SOCIETAL CHALLENGES	274.997,50 €	ECOBREED - Increasing the efficiency and competitiveness of organic crop breeding.	01/05 /2018	29/02 /2024
Simal Gándara, Jesús	H2020 EU.3.2. SOCIETAL CHALLENGES	689.480,00 €	UP4HEALTH - Sustainable and cost-effective production process.	01/06 /2020	31/05 /2024
Fernández Calviño, David	H2020-EU.3.2. - SOCIETAL CHALLENGES	987.876,00 €	SOILDIVERAGRO - Soil biodiversity enhancement in european agroecosystems.	01/06 /2019	31/05 /2025
Pérez Rodríguez, Paula	HORIZON 2.6	140.255,00 €	MRV4SOC - Monitoring, Reporting, and Verification of Soil Organic Carbon and Greenhouse Gas Balance.	01/06 /2023	31/05 /2026
Sánchez Moreiras, Adela María	HORIZON 2.6	926.625,00 €	AGROSUS - Agroecological strategies for sustainable weed management in key European crops	01/06 /2023	31/05 /2027
Iglesias Briones, María Jesús	HORIZON 2.6	1.055.625,00 €	SOB4ES - Integrating SOil Biodiversity to Ecosystem Services	01/06 /2023	31/05 /2028
Sánchez Moreiras, Adela María	HORIZON 2.6	172.828,75 €	Root2Resilience - Root phenotyping and genetic improvement for rotational crops resilient to environmental change	01/09 /2022	31/08 /2027
Simal Gándara, Jesús	HORIZON 2.6	1.162.937,50 €	PROMISEANG - Alternative PROteins from MIcrobial fermentation of non-conventional SEA sources.	01/09 /2023	31/08 /2027
Fernández Calviño, David	HORIZON 2.6	686.875,00 €	BIOSERVICES - Linking soil biodiversity and ecosystem functions and services in different land uses.	01/09 /2023	31/08 /2028
Fernández Calviño, David	INTERREG SUDOE	143.216,25 €	COPPEREPLACE - Desarrollo e implementación integral de nuevas tecnologías, productos y estrategias para reducir la aplicación de cobre en viñedos y remediar suelos contaminados en la región SUDOE.	01/11 /2020	28/02 /2023

National and Regional Projects

Table 22: Active National and Regional Projects in 2023

Researcher	Programme	Funding	Title	Start Date	End Date
Gullón Estévez, Beatriz	Axudas á consolidación de unidades de investigación competitivas.	115.000,00 €	TEC-SosVal - Desarrollo de Tecnologías Sostenibles para la Valorización de subprodutos de la industria alimentaria.	01/01 /2020	20/11 /2024
Prieto Lage, Miguel Ángel	Axudas á consolidación de unidades de investigación competitivas	115.000,00 €	Macroalgas invasoras como fuente de nuevos bioproductos.	01/01 /2020	30/04 /2024

Researcher	Programme	Funding	Title	Start Date	End Date
Garrote Velasco, Gil Gullón Estévez, Beatriz	Proyectos de I+D+i Retos Investigación	181.500,00 €	Avances hacia una biorrefinería sostenible basada en la valorización de especies invasoras.	01/06 /2020	30/11 /2023
López Periago, José Eugenio	Proyectos de I+D+i Retos Investigación	48.400,00 €	Procesados de biomasa herbicida para control ecológico de malezas.	01/06 /2020	31/05 /2023
Simal Gándara, Jesús	Proyectos de I+D+i Retos Investigación	127.050,00 €	Efecto de los fungicidas sobre la microbiota fermentativa para la obtención de vino y vinagre de uva blanca.	01/06 /2020	29/02 /2024
Arias Estévez, Manuel	Consolidación e estruturación de unidades de investigación competitivas.	280.000,00 €	Grupo BV1.	01/01 /2021	20/11 /2024
Fernández Calviño, David	Proyectos de I+D+i Retos Investigación	164.560,00 €	Sostenbilidad de la producción de viñedo: reducción de insumos externos, incremento de la biodiversidad del suelo y mejora del desarrollo del cultivo.	01/09 /2021	31/08 /2025
Cancho Grande, Beatriz	Consolidación e estruturación de unidades de investigación competitivas.	200.000,00 €	Grupo CF1.	01/01 /2022	20/11 /2025
Romaní Pérez, Aloia	Consolidación e estruturación de unidades de investigación competitivas.	115.000,00 €	Nuevas rutas de aprovechamiento integral de biomasa forestal para aplicaciones de alto valor añadido.	01/01 /2022	20/11 /2026
Simal Gándara, Jesús	Consolidación e estruturación de unidades de investigación competitivas.	320.000,00 €	Grupo AA1.	01/01 /2022	20/11 /2025
Xiao, Jiambo	Consolidación e estruturación de unidades de investigación competitivas.	115.000,00 €	Producción de extractos ricos en fibra, resveratrol y proantocianidinas a partir de semillas de uva con potencial antidiabético para la fortificación de harinas de trigo	01/01 /2022	20/11 /2026

Seijo Coello, María Del Carmen	2022 Programa de desenvolvemento rural (PDR)_FEADER	68.350,00 €	Sost-Apicola - Mellora da sostibilidade apícola mediante uso de novas tecnoloxías e a conservación da abella local.	22/02/2022	30/09/2024
Rodríguez Rajo, Francisco Javier	2022 programa desenvolvemento rural(PDR)_FEADER	42.000,00 €	Plasmowine - Momento óptimo de aplicación de un tratamiento contra el mildiu de la vid para minimizar residuos en vino.	25/02/2022	01/10/2023
Nóvoa Muñoz, Juan Carlos	2022 Programa de desenvolvemento rural (PDR)_FEADER	40.500,00 €	Novos aproveitamentos de emendas obtidas de residuos porcinos e forestais na mellora da productividade dos solos.	14/03/2022	01/10/2024
Garrote Velasco, Gil	2022 Programa de desenvolvemento rural (PDR)_FEADER	27.605,41 €	RESINERXIA - Acciones de cooperación para el desarrollo del sector resinero gallego.	18/04/2022	01/10/2023
Arenas Lago, Daniel Pérez Rodríguez, Paula	Proyectos I+D Generacion de Conocimiento 2021	169.400,00 €	Implicaciones ambientales y agrícolas de nanoagroquímicos.	01/09/2022	31/08/2025
Iglesias Briones, María Jesús	PROYECTOS I+D GENERACION DE CONOCIMIENTO 2021	99.220,00 €	Mecanismos de regulación de la persistencia del carbono orgánico en ecosistemas de turbera.	01/09/2022	31/08/2026
Nóvoa Muñoz, Juan Carlos	Proyectos I+D Generacion de Conocimiento 2021	127.050,00 €	Aproximación Interdisciplinar para desentrañar el destino del Mercurio en Ecosistemas Forestales del suroeste de Europa.	01/09/2022	31/08/2025
Pérez Rodríguez, Paula	2022 Programa de desenvolvemento rural (PDR)_FEADER	82.137,50 €	GREENSOILVIN - Obtención de viños sostibles e de calidade mediante estratexias alternativas na xestión da fertilidade.	01/10/2022	30/09/2025
Fernández Calviño, David	Proxectos Estratexicos Orientados a Transicion Ecoloxica e a Transicion Dixital	253.000,00 €	Reducción de insumos e incremento de la biodiversidad del suelo en cultivo de patata. Estrategias naturales para la transición a una agricultura más resiliente y sostenible.	01/12/2022	30/11/2024
Gullón Estévez, Beatriz Romaní Pérez, Aloia	Proxectos Estratexicos Orientados a Transicion Ecoloxica e a Transicion Dixital	155.250,00 €	Círculo cerrado para la valorización de residuos generados en la industria vitivinícola: desarrollo de una biorrefinería multi-producto.	01/12/2022	30/11/2024

Iglesias Briones, María Jesús	Proxectos Estratexicos Orientados a Transicion Ecoloxica e a Transicion Dixital	103.500,00 €	Adaptación basada en Ecosistemas frente al cambio climático de brezales costeros y dunas fijas.	01/12/2022	30/11/2024
Sánchez Moreiras, Adela María	Proyectos I+D Generacion de Conocimiento 2022	200.000,00 €	Combinaciones de compuestos bioactivos con demostrada capacidad fitotóxica y conocido modo de acción para su formulación como herbicidas naturales	01/01/2023	31/12/2026
Figueiredo González, María	INOU 2023	7.375,00 €	Mostaza máis ca un mollo. Compostos bioactivos e a súa repercusión na saúde.	01/02/2023	31/10/2023
Ferreira Santos, Pedro Miguel	INOU 2023	7.375,00 €	Estratexias para a xestión sostible de residuos vitivinícolas na provincia de Ourense.	01/05/2023	31/10/2023
Cancho Grande, Beatriz	FECYT 2022	7100,00 €	Aprendo a leer lo que como. Formando consumidores responsables desde el aula.	01/07/2023	30/06/2024
Gullón Estévez, Beatriz	Consolidación Investigadora 2022	137.335,00 €	AlSUsBio - Algal Biorefinery: A Sustainable Approach for the production of functional biomolecules.	01/07/2023	30/06/2025
Escuredo Pérez, Olga	Proyectos de I+D+i Retos Investigación	112.500,00 €	Análisis del perfil de volátiles y de las actividades biológicas de la miel y el polen de abeja producidos en España. Tecnología NIR para la determinación rápida del origen.	01/09/2023	30/09/2026
Fuciños González, Clara	Consolidación Investigadora 2022	73.326,00 €	CleanIngrAX - Síntesis de nano- y microingredientes a partir de productos derivados del arabinoxilano para la producción de alimentos de “etiqueta limpia”.	01/09/2023	31/08/2025
Gullón Estévez, Beatriz Romaní Pérez, Aloia	Proyectos I+D Generacion de Conocimiento 2022	181.250,00 €	AdChemFood - Procesos verdes avanzados para desarrollar químicos de plataforma basados en subroductos alimentarios.	01/09/2023	31/08/2026
Garrote Velasco, Gil	Proyectos I+D Generacion de Conocimiento 2022	196.250,00 €	De residuos de biomasa a biohidrógeno: procesos respetuosos con el medio ambiente desde un enfoque de economía circular.	01/10/2023	30/09/2026
Seijo Coello, María Del Carmen	2023 Programa de desenvolvemento rural (PDR)_FEADER	70.252,41 €	Estratexia sustentable para a xestión integrada de enfermidades en cultivos de pataca XIP-RISCO	20/12/2023	30/09/2026

ANNEX III: R&D CONTRACTS SIGNED IN 2023

Table 23: R&D Contracts Signed by IAA Research Staff in 2023.

Year	Project Code	Project Title	Organisation / Company	Amount
2023	CO-0007-23	Aillamento e caracterización de microorganismos a partir de superficies potenciais de formas biofilm e tratamentos de prevención e eliminación dos mesmos	Caldaria termal s.l.u.	21.193,00 €
2023	CO-0032-23	Estudo de prevalencia de lexionela pneumophila, en circuitos de baixa circulación de auga, que se atopa en edificios frecuentados por persoas vulnerables	Industria de la salud de ferrol, sl	30.000,00 €
2023	CO-0033-23	Aillamento de microorganismos patóxenos en zonas de uso común de edificios prioritarios. Avaliación de resistencias aos tratamentos de desinfección	Fundacion san rosendo	6.000,00 €
2023	CO-0038-23	Prevalencia de determinados serotipos de salmonella spp en polos de carne da especie gallus gallus	Avicola de galicia s.a.u.	26.000,00 €
2023	CO-0066-23	Efectos beneficiosos do selenio e a influencia do procesado e outros compoñentes alimentarios na biodisponibilidade do mercurio	Sealab solutions s.l.	21.500,00 €
2023	CO-0068-23	Prevención da incidencia de black rot en viñedo ecolóxico (rotend2023)	Viña mein s.l.	50.325,00 €
2023	CU-0012-23	Formación teórica-práctica para a posta en marcha dun obradoiro de elaboración de conservas de tomate nas instalacións da fundación menela	Fundacion menela	7.345,00 €
2023	IN-0006-23	Control microbiolóxico e físico químico en instalacions balnearias, augas, alimentos, superficies e instalacions de risco	Termas de cuntis s.l.	3.117,50 €
2023	IN-0011-23	Análise de lexionela en instalacións de risco (177464-182165)	Quimica industrial mediterranea s.l.u.	568,00 €
2023	IN-0012-23	Xeoloxía e fracturación da contorna do manantial de o fervedoiro, ourense	Xeoaquis s.l.	825,00 €
2023	IN-0014-23	Análise de auga e superficies en exlotacións gandeiras	Bioseguridad de galicia, s.l.	3.000,00 €
2023	IN-0015-23	Análise microbiolóxica de canles, materias primas, alimentos e superficies (180131 - 181412)	Novafrigsa s.a.	1.025,60 €
2023	IN-0016-23	Análise de mostras de produción primaria (168461-169840)	Coren coop. Ourensanas, s.c.g.	4.170,50 €
2023	IN-0017-23	Análise de mostras de produción primaria (169860-171206)	Coren coop. Ourensanas, s.c.g.	4.873,50 €
2023	IN-0018-23	Análise de mostras de produción primaria (171247-172601)	Coren coop. Ourensanas, s.c.g.	4.902,00 €
2023	IN-0019-23	Análise microbiolóxica de mostras de produtos	Industrias frigoríficas del louro s.a.	66,30 €
2023	IN-0020-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (181606-182653)	Industrias frigoríficas del louro s.a.	1.046,10 €
2023	IN-0024-23	Estudo de estandarización de starter de kombucha asesoramento e proposta de solucións	Komvida kombucha s.l.	5.000,00 €

2023	IN-0031-23	Análise de lexionela (174210-180315)	Serveo servicios s.a	2.492,50 €
2023	IN-0032-23	Investigación de salmonela en calzas procedentes de granxas avícolas	Avicola de galicia s.a.u.	9.384,00 €
2023	IN-0033-23	Investigación de salmonela en calzas procedentes de granxas	Avicola de galicia s.a.u.	11.000,00 €
2023	IN-0034-23	Investigación de salmonela en calzas procedentes de granxas avícolas	Avicola de galicia s.a.u.	9.000,00 €
2023	IN-0035-23	Análise microbiolóxica de mostras de p.primaria (172957-183912)	Ads avicultura de recria y puesta	3.711,50 €
2023	IN-0036-23	Análise de auga (177620-181975)	Farmacia josé manuel garcía pinal y una más c.b.	392,00 €
2023	IN-0046-23	Análise de auga (183826-183827)	Bodegas alanis s.l.u.	104,00 €
2023	IN-0047-23	Análise de auga (166995-183825)	Bodega milenium s.l.u.	179,00 €
2023	IN-0048-23	Análise microbiolóxica de mostras de p.primaria (174179-182614)	Rivadulla s.l.	2.561,00 €
2023	IN-0058-23	Análise microbiolóxicas de produtos da pesca e conservas	Frinsa del noroeste, s.a.	6.785,00 €
2023	IN-0059-23	Análise de mostras de secadero e superficies sala branca (182741-183823)	Industrias frigoríficas del louro s.a.	1.546,70 €
2023	IN-0067-23	Análise de auga de billa	Juan pablo ferreiros arias	26,00 €
2023	IN-0068-23	Análise microbiolóxica de lexionela (171248-181122)	Antolin soluciones s.l.	304,00 €
2023	IN-0069-23	Análise palinolóxico de mostras de mel de zamora	Fundacion general de la universidad de salamanca	1.480,00 €
2023	IN-0073-23	Análise de lexionela en piscinas (166685-180774)	Laboratorio neboa sl	244,00 €
2023	IN-0110-23	Avaliación proxecto 47.018.23	Agencia de certificación en innovación española s.l. (acie)	200,00 €
2023	IN-0111-23	Avaliación proxecto 3977.001.23	Agencia de certificación en innovación española s.l. (acie)	200,00 €
2023	IN-0112-23	Avaliación proxecto 2952.001.20	Agencia de certificación en innovación española s.l. (acie)	150,00 €
2023	IN-0124-23	Estudo hidroxeolóxico que analice a viabilidade de explotación hidrotermal na marxe esquerda do embalse de as conchas, na contorna da praia fluvial do municipio de muiños. Actuación incluida no plan de sostenibilidade turística en ourense termal (serv/men/2023000186)	Diputación provincial de ourense	5.400,00 €

Year	Project Code	Project Title	Organisation / Company	Amount
2023	IN-0125-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (185287-186205)	Industrias frigoríficas del louro s.a.	863,10 €
2023	IN-0126-23	Análise microbiolóxica de mostras	Industrias frigoríficas del louro s.a.	249,90 €
2023	IN-0127-23	Análise microbiolóxica de mostras de secadero e superficies sala (183944-184879)	Industrias frigoríficas del louro s.a.	1.219,50 €
2023	IN-0128-23	Análise microbiolóxica de mostras	Industrias frigoríficas del louro s.a.	178,50 €
2023	IN-0129-23	Análise de mostras de produción primaria (172602-174041)	Coren coop. Ourensanas, s.c.g.	5.187,00 €
2023	IN-0130-23	Análise de mostras de produción primaria (174065-175717)	Coren coop. Ourensanas, s.c.g.	7.590,50 €
2023	IN-0131-23	Análise de mostras de produción primaria (175750-177197)	Coren coop. Ourensanas, s.c.g.	7.030,00 €
2023	IN-0132-23	Análise microbiolóxica de mostras de produción primaria (177296-178775)	Coren coop. Ourensanas, s.c.g.	5.320,00 €
2023	IN-0160-23	Avaliación proxecto 40.045.22	Agencia de certificación en innovación española s.l. (acie)	650,00 €
2023	IN-0168-23	Analise de lexionela (177930-187882)	Inveslabor s.l.u	468,00 €
2023	IN-0176-23	Análise de auga e superficies en explotacións avícolas e cunícolas	Bioseguridad de galicia, s.l.	6.000,00 €
2023	IN-0197-23	Análise microbiolóxica de mostras	Industrias frigoríficas del louro s.a.	535,50 €
2023	IN-0198-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (186780-187583)	Industrias frigoríficas del louro s.a.	820,90 €
2023	IN-0204-23	Análise de auga de piscinas (182857-187912)	Quimica industrial mediterranea s.l.u.	117,00 €
2023	IN-0228-23	Apoio ao proceso de acreditación en relación á análise sensorial de mel, asesoramento nos programas de control de calidade da análise sensorial e no proceso de certificación	Crixp: consello regulador indicación xeográfica protexida mel de galicia	2.500,00 €
2023	IN-0229-23	Caracterización palinolóxica de mostras de mel 2023	Crixp: consello regulador indicación xeográfica	2.600,00 €

Year	Project Code	Project Title	Organisation / Company	Amount
			protexida mel de galicia	
2023	IN-0247-23	Estimación da calidade microbiolóxica de solos de viñedo	Miguel torres s.a	800,00 €
2023	IN-0252-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (188154-189228)	Industrias frigoríficas del louro s.a.	1.421,40 €
2023	IN-0253-23	Análise microbiolóxica de mostras	Industrias frigoríficas del louro s.a.	507,50 €
2023	IN-0272-23	Análise microbiolóxica de auga de espazos termais para programa piloto de mostraxe microbiolóxico no espazo termal de outariz/canedo no concello de ourense 2023	Concello de ourense	1.800,00 €
2023	IN-0287-23	Aillamento de levedos e preparación de clons	Hijos de rivera s.a.u	9.000,00 €
2023	IN-0288-23	Preparación de medios e adaptación de levedos. Proxecto idi-20230014	Hijos de rivera s.a.u	9.000,00 €
2023	IN-0289-23	Análise de autocontrol de billa e rede de augas do concello de o incio no ano 2023	Concello do incio	4.465,00 €
2023	IN-0296-23	Avaliación proxecto 47.018.23	Agencia de certificación en innovación española s.l. (acie)	150,00 €
2023	IN-0303-23	Proposta de adaptación dun depósito piloto para a produción de microorganismo de kombucha	Komvida kombucha s.l.	1.090,00 €
2023	IN-0304-23	Avaliación proxecto 40.045.23	Agencia de certificación en innovación española s.l. (acie)	600,00 €
2023	IN-0321-23	Asesoramento sobre tratamento de biomasa fúnxica	Asociacion profesional de productores de sustratos y hongos de la rioja, navarra y aragón	14.000,00 €
2023	IN-0338-23	Análise microbiolóxica de lexionela (188102-188231)	Antolin soluciones s.l.	228,00 €
2023	IN-0339-23	Análise microbiolóxica de mostras de p. Primaria (184515-193741)	Ads avicultura de recria y puesta	3.000,00 €
2023	IN-0340-23	Análise de auga de piscina	Juana diaz cotan hotel la palleira	84,00 €
2023	IN-0347-23	Análise microbiolóxica de produtos de pastelería no ano 2023	Finarrei s.l.	830,00 €
2023	IN-0349-23	Control microbiolóxico e físico químico en instalacións balnearias, augas, alimentos, superficies e instalacións de risco	Termas de cuntis s.l.	5.400,00 €
2023	IN-0350-23	Análise de auga (183057-193651)	Farmacia josé manuel garcía	1.700,00 €

Year	Project Code	Project Title	Organisation / Company	Amount
			pinal y una más c.b.	
2023	IN-0358-23	Suministro de microorganismos autóctonos para a fermentación de viño	Pazo de lusco	2.400,00 €
2023	IN-0359-23	Análise microbiolóxica de mostras de p.primaria (182692-193817)	Rivadulla s.l.	3.300,00 €
2023	IN-0362-23	Análise microbiolóxica de canles, materias primas, alimentos e superficies (182848-183662)	Novafrigsa s.a.	849,00 €
2023	IN-0363-23	Análise microbiolóxica de canles, materias primas, alimentos e superficies (184125-185183)	Novafrigsa s.a.	823,12 €
2023	IN-0364-23	Análise microbiolóxica de canles, materias primas, alimentos e superficies (185239-186396)	Novafrigsa s.a.	727,72 €
2023	IN-0365-23	Análise microbiolóxica de canles, materias primas, alimentos e superficies (186737-187838)	Novafrigsa s.a.	893,72 €
2023	IN-0366-23	Análise microbiolóxica de canles, materias primas, alimentos e superficies (188050-189248)	Novafrigsa s.a.	1.026,58 €
2023	IN-0367-23	Análise microbiolóxica de canles, materias primas, alimentos e superficies (189598-190840)	Novafrigsa s.a.	1.577,72 €
2023	IN-0368-23	Análise microbiolóxica de canles, materias primas, alimentos e superficies (181897-182654)	Novafrigsa s.a.	600,70 €
2023	IN-0370-23	Aillamento de microorganismos patóxenos, lexionela sp, en edificios prioritarios do complexo hospitalario de ourense	Serveo servicios s.a	9.500,00 €
2023	IN-0371-23	Análise de auga e superficies en explotacións avícolas e cunícolas	Biosgal: bioseguridad de galicia s.l.	2.000,00 €
2023	IN-0373-23	Avaliación proxecto 4258.001.23	Agencia de certificación en innovación española s.l.	200,00 €
2023	IN-0375-23	Análise alimentos (302565 18 unid.), superficies (302874 20 unid.), auga consumo (302875 1 unid.) E técnico (304870 3 unid.) Albarán 178614-192345	Complexo hospitalario universitario de ourense	909,33 €
2023	IN-0376-23	Análise alimentos (302565 33 unid.) E superficies (302874 28 unid.) Albarán nº 178265-192464	Complexo hospitalario	1.404,00 €
2023	IN-0378-23	Análise de auga de piscina (188607-191467)	Quimica industrial mediterranea s.l.u.	285,00 €
2023	IN-0417-23	Avaliación proxecto 4342.001.23	Agencia de certificación en innovación española s.l.	200,00 €
2023	IN-0432-23	Análise microbiolóxica de agua de espazos termais para cumprir o indicado por sanidade	Concello de ourense	1.533,00 €
2023	IN-0449-23	Avaliación e auditoría in situ do proxecto 54226	Enac	710,00 €
2023	IN-0466-23	Avaliación proxecto 2008.007.23	Agencia de certificación en innovación española s.l.	200,00 €

Year	Project Code	Project Title	Organisation / Company	Amount
2023	IN-0469-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (192591-192602)	Industrias frigoríficas del louro s.a.	228,00 €
2023	IN-0470-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (192298-192326)	Industrias frigoríficas del louro s.a.	295,90 €
2023	IN-0471-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (193177-193648)	Industrias frigoríficas del louro s.a.	854,40 €
2023	IN-0472-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (192574-193298)	Industrias frigoríficas del louro s.a.	411,90 €
2023	IN-0473-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (191513-192120)	Industrias frigoríficas del louro s.a.	236,70 €
2023	IN-0474-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (191494-192313)	Industrias frigoríficas del louro s.a.	552,20 €
2023	IN-0475-23	Análise de mostras de secadero e superficies sala branca (189383-190712)	Industrias frigoríficas del louro s.a.	1.048,30 €
2023	IN-0477-23	Análise de mostras de produción primaria (178776-180124)	Coren coop. Ourensanas, s.c.g.	4.104,00 €
2023	IN-0478-23	Análise de mostras de produción primaria (180125-181348)	Coren coop. Ourensanas, s.c.g.	4.028,00 €
2023	IN-0479-23	Análise de mostras de produción primaria (181461-182661)	Coren coop. Ourensanas, s.c.g.	4.322,50 €
2023	IN-0480-23	Análise de mostras de produción primaria (182665-183918)	Coren coop. Ourensanas, s.c.g.	4.142,00 €
2023	IN-0483-23	Análise de auga e superficies en explotacións avícolas e cunícolas	Bioseguridad de galicia, s.l.	3.000,00 €
2023	IN-0484-23	"Avaliación de parámetros sensoriais, fisicoquímicos e metais pesados en alimentos elaborados con auga termal	Miguel angel gonzalez quintela	2.479,34 €
2023	IN-0491-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (195465-195481)	Industrias frigoríficas del louro s.a.	168,60 €
2023	IN-0492-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (195261-196615)	Industrias frigoríficas del louro s.a.	1.195,90 €
2023	IN-0493-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (196594-196641)	Industrias frigoríficas del louro s.a.	240,00 €
2023	IN-0494-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (194706-195260)	Industrias frigoríficas del louro s.a.	275,70 €

Year	Project Code	Project Title	Organisation / Company	Amount
2023	IN-0495-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (193982-193998)	Industrias frigoríficas del louro s.a.	235,40 €
2023	IN-0496-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (193999-194920)	Industrias frigoríficas del louro s.a.	1.023,70 €
2023	IN-0507-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (197205-198112)	Industrias frigoríficas del louro s.a.	1.261,90 €
2023	IN-0508-23	Análise microbiolóxica de mostras de secadero e superficies sala branca (196913-198116)	Industrias frigoríficas del louro s.a.	455,40 €
2023	IN-0509-23	Análise microbiolóxica de mostras de secadero e superficies sala branca 8191433-191512)	Industrias frigoríficas del louro s.a.	120,00 €

ANNEX IV: LIST OF PUBLICATIONS

JCR Publications

Table 24: List of JCR Articles Published by IAA Research Staff in 2023.

Authors	Title	Journal	Publisher
Abdeldaiem A.M., Ali A.H., Mousa A.H., Elkot W.F., Simal-Gandara J.	Ice cream supplemented with roasted and grilled corn powders: Physical properties, rheology, antioxidant activity, color, sensory evaluation, and production cost	International Journal of Gastronomy and Food Science	AZTI-Tecnalia
Abdellatif F., Begaa S., Messaoudi M., Benarfa A., Ouakouak H., Hassani A., Sawicka B., Simal Gandara J.	HPLC–DAD Analysis, Antimicrobial and Antioxidant Properties of Aromatic Herb Melissa officinalis L., Aerial Parts Extracts	Food Analytical Methods	Springer
Abedi-Firoozjah R., Salim S.A., Hasanvand S., Assadpour E., Azizi-Lalabadi M., Prieto M.A., Jafari S.M.	Application of smart packaging for seafood: A comprehensive review	Comprehensive Reviews in Food Science and Food Safety	John Wiley and Sons Inc
Ahmed W.I., Kamar A.M., Hamad G.M., Mehany T., El-Desoki W.I., Ali E., Simal-Gandara J.	Biocontrol of Bacillus cereus by Lactobacillus plantarum in Kareish cheese and yogurt	LWT	Academic Press
Ai N., Liu R., Chi X., Song Z., Shao Y., Xi Y., Zhao T., Sun B., Xiao J., Deng J.	Rapid discrimination of the identity of infant formula by triple-channel models	Food Chemistry	Elsevier Ltd
Akram W., Tagde P., Ahmed S., Arora S., Emran T.B., Babalghith A.O., Sweilam S.H., Simal-Gandara J.	Guaiazulene and related compounds: A review of current perspective on biomedical applications	Life Sciences	Elsevier Inc.
Albuquerque B.R., Dias M.I., Pinela J., Calhelha R.C., Pires T.C.S.P., Alves M.J., Corrêa R.C.G., Ferreira I.C.F.R., Oliveira M.B.P.P., Barros L.	Insights into the Chemical Composition and In Vitro Bioactive Properties of Mangosteen (Garcinia mangostana L.) Pericarp	Foods	MDPI

Authors	Title	Journal	Publisher
Albuquerque B.R., Finimundy T.C., Pinela J., Pires T.C.S.P., Mandim F., Vaz J., Corrêa R.C.G., Oliveira M.B.P.P., Barros L.	Brazilian berry waste as a source of bioactive compounds: grumixama (Eugenia brasiliensis Lam.) as a case study	Food and Function	Royal Society of Chemistry
Ali R., Sultan A., Ishrat R., Haque S., Khan N.J., Prieto M.A.	Identification of New Key Genes and Their Association with Breast Cancer Occurrence and Poor Survival Using In Silico and In Vitro Methods	Biomedicines	MDPI
Álvarez C., González A., Ballesteros I., Gullón B., Negro M.J.	In Vitro Assessment of the Prebiotic Potential of Xylooligosaccharides from Barley Straw	Foods	MDPI
Álvarez-Rodríguez S., Alvite C.M., Reigosa M.J., Sánchez-Moreiras A.M., Araniti F.	Application of Indole-Alkaloid Harmaline Induces Physical Damage to Photosystem II Antenna Complexes in Adult Plants of Arabidopsis thaliana (L.) Heynh	Journal of Agricultural and Food Chemistry	American Chemical Society
Álvarez-Rodríguez S., Spinozzi E., Sánchez-Moreiras A.M., López-González D., Ferrati M., Lucchini G., Maggi F., Petrelli R., Araniti F.	Investigating the phytotoxic potential of Carlina acaulis essential oil against the weed Bidens pilosa through a physiological and metabolomic approach	Industrial Crops and Products	Elsevier B.V.
Álvarez-Silvares E., Fernández-Cruz T., Bermudez-González M., Rubio-Cid P., Almeida A., Pinto E., Seoane-Pillado T., Martínez-Carballo E.	Placental levels of essential and non-essential trace element in relation to neonatal weight in Northwestern Spain: application of generalized additive models	Environmental Science and Pollution Research	Springer Science and Business Media Deutschland GmbH
Araniti F., Talarico E., Madeo M.L., Greco E., Minervino M., Álvarez-Rodríguez S., Muto A., Ferrari M., Chiappetta A., Bruno L.	Short-term exposition to acute cadmium toxicity induces the loss of root gravitropic stimuli perception through PIN2-mediated auxin redistribution in Arabidopsis thaliana (L.) Heynh	Plant Science	Elsevier Ireland Ltd
Assadpour E., Rezaei A., Das S.S., Krishna Rao B.V., Singh S.K., Kharazmi M.S., Jha N.K., Jha S.K., Prieto M.A., Jafari S.M.	Cannabidiol-Loaded Nanocarriers and Their Therapeutic Applications	Pharmaceuticals	Multidisciplinary Digital Publishing Institute (MDPI)
Astray G., Mejuto J.C., Xiao J., Simal-Gandara J.	Benefits, toxicity and current market of cannabidiol in edibles	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Atta A., Shahid M., Kanwal Z., Jafri S.A., Riaz M., Xiao H., Abbas M., Egbuna C., Simal-Gandara J.	Inhibition of oxidative stress and advanced glycation end-product formation in purified BSA/glucose glycation system by polyphenol extracts of selected nuts from Pakistan	Food Science and Nutrition	John Wiley and Sons Inc
Aylanc V., Larbi S., Calhelha R., Barros L., Rezouga F., Rodríguez-Flores M.S., Seijo M.C., El Ghouizi	Evaluation of Antioxidant and Anticancer Activity of Mono- and Polyfloral Moroccan Bee Pollen	Molecules	MDPI

Authors	Title	Journal	Publisher
A., Lyoussi B., Falcão S.I., Vilas-Boas M.	by Characterizing Phenolic and Volatile Compounds		
Babotă M., Frumuzachi O., Nicolescu A., Dias M.I., Pinela J., Barros L., Añibarro-Ortega M., Stojković D., Carević T., Mocan A., López V., Crișan G.	Thymus Species from Romanian Spontaneous Flora as Promising Source of Phenolic Secondary Metabolites with Health-Related Benefits	Antioxidants	MDPI
Baptista S.L., Romaní A., Cunha J.T., Domingues L.	Multi-feedstock biorefinery concept: Valorization of winery wastes by engineered yeast	Journal of Environmental Management	Academic Press
Barciela P., Carpena M., Li N.-Y., Liu C., Jafari S.M., Simal-Gandara J., Prieto M.A.	Macroalgae as biofactories of metal nanoparticles; biosynthesis and food applications	Advances in Colloid and Interface Science	Elsevier B.V.
Barciela P., Perez-Vazquez A., Prieto M.A.	Azo dyes in the food industry: Features, classification, toxicity, alternatives, and regulation	Food and Chemical Toxicology	Elsevier Ltd
Batiha G.E.-S., Al-kuraishy H.M., Al-Gareeb A.I., Alruwaili M., AlRuwaili R., Albogami S.M., Alorabi M., Saad H.M., Simal-Gandara J.	Targeting of neuroinflammation by glibenclamide in Covid-19: old weapon from arsenal	Inflammopharmacology	Springer Science and Business Media Deutschland GmbH
Ben Miri Y., Benabdallah A., Taoudiat A., Mahdid M., Djenane D., Tacer-Caba Z., Topkaya C., Simal-Gandara J.	Potential of essential oils for protection of Couscous against Aspergillus flavus and aflatoxin B1 contamination	Food Control	Elsevier Ltd
Ben Miri Y., Nouasri A., Benabdallah A., Benslama A., Tacer-Caba Z., Laassami A., Djenane D., Simal-Gandara J.	Antifungal effects of selected menthol and eugenol in vapors on green coffee beans during long-term storage	Heliyon	Elsevier Ltd
Bhattu M., Wani A.A., Verma M., Bharatam P.V., Kathuria D., Simal-Gandara J.	A selective turn-on fluorescent chemosensor 1,1-diaminoazine for azinphos-methyl	Journal of Photochemistry and Photobiology A: Chemistry	Elsevier B.V.
Bommakanti V., Puthenparambil Ajikumar A., Sivi C.M., Prakash G., Mundanat A.S., Ahmad F., Haque S., Prieto M.A., Rana S.S.	An Overview of Herbal Nutraceuticals, Their Extraction, Formulation, Therapeutic Effects and Potential Toxicity	Separations	MDPI
Boudjaber K., Ben Miri Y., Benabdallah A., Bennia N., Hamadi C., Soumati B., Djenane D., Simal-Gandara J.	Evaluation of Antifungal and anti-aflatoxin B1 efficacy of some crude extracts of Chamaerops humilis L. against Aspergillus flavus isolated from peanuts (Arachis hypogea L.)	Food Control	Elsevier Ltd
Bouyahya A., Chamkhi I., Menyiy N.E., Moudden H.E., Harhar H., Idrissi Z.L.E., Khouchlaa A., Jouadi I., Baaboua A.E., Taha D., Balahbib A., Khalid A., Abdalla A.N., Zengin G., Simal-Gandara J., El Omari N.	Traditional use, phytochemistry, toxicology, and pharmacological properties of Lavandula dentata L.,: A comprehensive review	South African Journal of Botany	Elsevier B.V.
Bravo-Venegas J., Prado-Acebo I., Gullón B., Lú-Chau T.A., Eibes G.	Avoiding acid crash: From apple pomace hydrolysate to butanol through acetone-butanol-ethanol	Waste Management	Elsevier Ltd

Authors	Title	Journal	Publisher
	fermentation in a zero-waste approach		
Briones M.J.I., Massey A., Elias D.M.O., McCalmont J.P., Farrar K., Donnison I., McNamara N.P.	Species selection determines carbon allocation and turnover in Miscanthus crops: Implications for biomass production and C sequestration	Science of the Total Environment	Elsevier B.V.
Broomandi P., Rodríguez-Seijo A., Janatian N., Fathian A., Tleuken A., Mohammadpour K., Galán-Madruga D., Jahanbakhshi A., Kim J.R., Satyanaga A., Bagheri M., Morawska L.	Health risk assessment of the European inhabitants exposed to contaminated ambient particulate matter by potentially toxic elements	Environmental Pollution	Elsevier Ltd
Browne N., Otero P., Murray P., Saha S.K.	Rapid Screening for Mycosporine-like Amino Acids (MAAs) of Irish Marine Cyanobacteria and Their Antioxidant Potential	Sustainability (Switzerland)	MDPI
Calone R., Mircea D.-M., González-Orenga S., Boscaiu M., Zuzunaga-Rosas J., Barbanti L., Vicente O.	Effect of Recurrent Salt and Drought Stress Treatments on the Endangered Halophyte Limonium angustebracteatum Erben	Plants	MDPI
Campillo-Cora C., González-Feijoo R., Arias-Estévez M., Fernández-Calviño D.	Do heavy metals affect bacterial communities more in small repeated applications or in a single large application?	Journal of Environmental Management	Academic Press
Campillo-Cora C., González-Feijóo R., Arias-Estévez M., Fernández-Calviño D.	Dissolved organic matter as a confounding factor in the determination of pollution-induced community tolerance (PICT) of bacterial communities to heavy metals using the leucine incorporation method	Geoderma	Elsevier B.V.
Carpena M., Cassani L., Gomez-Zavaglia A., Garcia-Perez P., Seyyedi-Mansour S., Cao H., Simal-Gandara J., Prieto M.A.	Application of fermentation for the valorization of residues from Cactaceae family	Food Chemistry	Elsevier Ltd
Carpena M., Garcia-Perez P., Garcia-Oliveira P., Chamorro F., Otero P., Lourenço-Lopes C., Cao H., Simal-Gandara J., Prieto M.A.	Biological properties and potential of compounds extracted from red seaweeds	Phytochemistry Reviews	Springer Science and Business Media B.V.
Cassani L., Marcovich N.E., Gomez-Zavaglia A.	Seaweed bioactive compounds: Promising and safe inputs for the green synthesis of metal nanoparticles in the food industry	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Cassani L., Prieto M.A., Gomez-Zavaglia A.	Effect of food-grade biopolymers coated Pickering emulsions on carotenoids' stability during processing, storage, and passage through the gastrointestinal tract	Current Opinion in Food Science	Elsevier Ltd
Cassotta M., Cianciosi D., De Giuseppe R., Navarro-Hortal M.D., Armas Diaz Y., Forbes-Hernández T.Y., Pifarre K.T.,	Possible role of nutrition in the prevention of inflammatory bowel disease–related colorectal cancer: A focus on human studies	Nutrition	Elsevier Inc.

Authors	Title	Journal	Publisher
Pascual Barrera A.E., Grosso G., Xiao J., Battino M., Giampieri F.			
Castillo A., Finimundy T.C., Heleno S.A., Rodrigues P., Fernandes F.A., Pereira S., Lores M., Barros L., Garcia-Jares C.	The generally recognized as safe (GRAS) microalgae Haematococcus pluvialis (wet) as a multifunctional additive for coloring and improving the organoleptic and functional properties of foods	Food and Function	Royal Society of Chemistry
Cham R., Moghtaderi T., Rodríguez-Seijo A., Alamdar R.	Single and Combined Effect of Cd and Zn on Growth, Metal Accumulation and Mineral Nutrition in Tobacco Plants (Nicotiana tabacum L.)	Journal of Soil Science and Plant Nutrition	Springer Science and Business Media Deutschland GmbH
Chamorro F., Otero P., Carpena M., Fraga-Corral M., Echave J., Seyyedi-Mansour S., Cassani L., Prieto M.A.	Health Benefits of Oily Fish: Illustrated with Blue Shark (Prionace glauca), Shortfin Mako Shark (Isurus oxyrinchus), and Swordfish (Xiphias gladius)	Nutrients	Multidisciplinary Digital Publishing Institute (MDPI)
Chen Q., Dong L., Li Y., Liu Y., Xia Q., Sang S., Wu Z., Xiao J., Liu L., Liu L.	Research advance of non-thermal processing technologies on ovalbumin properties: The gelation, foaming, emulsification, allergenicity, immunoregulation and its delivery system application	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Chen Y., Lu H., Ding Y., Liu S., Ding Y., Lu B., Xiao J., Zhou X.	Dietary Protective Potential of Fucoxanthin as an Active Food Component on Neurological Disorders	Journal of Agricultural and Food Chemistry	American Chemical Society
Chen Y., Wang J., Zou L., Cao H., Ni X., Xiao J.	Dietary proanthocyanidins on gastrointestinal health and the interactions with gut microbiota	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Chen Y.-Y., Li N.-Y., Guo X., Huang H.-J., Garcia-Oliveira P., Sun J.-Y., Zhang J.-D., Prieto M.A., Guo Z.-Q., Liu C.	The nutritional and bio-active constituents, functional activities, and industrial applications of cashew (Anacardium occidentale): A review	Food Frontiers	John Wiley and Sons Inc
Chowdhury A., Choudhary M., Sharma V., Kant A., Vashistt J., Garlapati V.K., Simal-Gandara J.	Exploration of Indian Traditional recipe “Tarvaani” from the drained rice gruel for nutritional and probiotic potential	International Journal of Gastronomy and Food Science	AZTI-Tecnalia
Chowdhury N.N., Islam M.N., Jafrin R., Rauf A., Khalil A.A., Emran T.B., Aljohani A.S.M., Alhumaydhi F.A., Lorenzo J.M., Shariati M.A., Simal-Gandara J.	Natural plant products as effective alternatives to synthetic chemicals for postharvest fruit storage management	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Cofiño R., Prieto M., Hernán-García M.	Community or barbarism. Community orientation of primary health care at three levels [Comunitaria o barbarie. Tres niveles para la orientación comunitaria de la atención primaria]	Gaceta Sanitaria	Ediciones Doyma, S.L.

Authors	Title	Journal	Publisher
Costa J.R., Pereira M.J., Pedrosa S.S., Gullón B., de Carvalho N.M., Pintado M.E., Madureira A.R.	Sugarcane Straw as a Source of Arabinoxylans: Optimization and Economic Viability of a Two-Step Alkaline Extraction	Foods	MDPI
da Silva S., Pérez-Gregorio R., Mateus N., Freitas V., Dias R.	Evidence of increased gluten-induced perturbations in the nucleophilic tone and detoxifying defences of intestinal epithelial cells impaired by gastric disfunction	Food Research International	Elsevier Ltd
Da Silva-Mojón L., Pérez-Lamela C., Falqué-López E.	Smoothies Marketed in Spain: Are They Complying with Labeling Legislation?	Nutrients	Multidisciplinary Digital Publishing Institute (MDPI)
Daghighi E., Shah T., Chia R.W., Lee J.-Y., Shang J., Rodríguez-Seijo A.	The forgotten impacts of plastic contamination on terrestrial micro- and mesofauna: A call for research	Environmental Research	Academic Press Inc.
Das M., Devi K.P., Belwal T., Devkota H.P., Tewari D., Sahebnasagh A., Nabavi S.F., Khayat Kashani H.R., Rasekhian M., Xu S., Amirizadeh M., Amini K., Banach M., Xiao J., Aghaabdollahian S., Nabavi S.M.	Harnessing polyphenol power by targeting eNOS for vascular diseases	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Del-Castillo-Llamosas A., Eibes G., Ferreira-Santos P., Pérez-Pérez A., Del-Río P.G., Gullón B.	Microwave-assisted autohydrolysis of avocado seed for the recovery of antioxidant phenolics and glucose	Bioresource Technology	Elsevier Ltd
Del-Castillo-Llamosas A., Rodríguez-Rebelo F., Rodríguez-Martínez B., Mallo-Fraga A., Del-Río P.G., Gullón B.	Valorization of Avocado Seed Wastes for Antioxidant Phenolics and Carbohydrates Recovery Using Deep Eutectic Solvents (DES)	Antioxidants	MDPI
Del-Río P.G., Gullón B., Romaní A., Garrote G.	Eco-friendly strategy for the joint valorization of invasive macroalgae and fast-growing wood to produce advanced biofuels	Renewable Energy	Elsevier Ltd
Deng H., He Y., Cao H., Chen L., Teng H.	New insight into the effect of hydroxyl substituted flavonoids on the cytotoxicity of 2-amino-3-methylimidazo[4,5-f]quinoline	Food Frontiers	John Wiley and Sons Inc
Dey D.K., Kang J.I., Bajpai V.K., Kim K., Lee H., Sonwal S., Simal-Gandara J., Xiao J., Ali S., Huh Y.S., Han Y.-K., Shukla S.	Mycotoxins in food and feed: toxicity, preventive challenges, and advanced detection techniques for associated diseases	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Díaz-Reinoso B., Rivas S., Rivas J., Domínguez H.	Subcritical water extraction of essential oils and plant oils	Sustainable Chemistry and Pharmacy	Elsevier B.V.
Diéguez-Antón A., Escuredo O., Meno L., Seijo M.C., Rodríguez-Flores M.S.	Describing the Pollen Content in the Gastrointestinal Tract of Vespa velutina Larvae	Animals	Multidisciplinary Digital Publishing

Authors	Title	Journal	Publisher
			Institute (MDPI)
Donhauser J., Briones M.J.I., Mikola J., Jones D.L., Eder R., Filser J., Frossard A., Krogh P.H., Sousa J.P., Cortet J., Desie E., Domene X., Djuric S., Hackenberger D., Jimenez J.J., Iamandei M., Rissmann C., Schmidt O., Shanskiy M., Silfver T., Vancampenhout K., Vasutova M., Velizarova E., Frey B.	Extracting DNA from soil or directly from isolated nematodes indicate dissimilar community structure for Europe-wide forest soils	Soil Biology and Biochemistry	Elsevier Ltd
Donn P., Barciela P., Perez-Vazquez A., Cassani L., Simal-Gandara J., Prieto M.A.	Bioactive Compounds of Verbascum sinuatum L.: Health Benefits and Potential as New Ingredients for Industrial Applications	Biomolecules	MDPI
Dridi A., Reis F.S., Pires T.C.S.P., Calhelha R.C., Pereira C., Zaghdoudi K., Ferreira I.C.F.R., Barros L., Barreira J.C.M.	Aesculus hippocastanum L.: A Simple Ornamental Plant or a Source of Compelling Molecules for Industry?	Separations	MDPI
Echegaray N., Gullón B., Pateiro M., Amarowicz R., Misihairabgwi J.M., Lorenzo J.M.	Date Fruit and Its By-products as Promising Source of Bioactive Components: A Review	Food Reviews International	Taylor and Francis Ltd.
El-Nakhel C., Cristofano F., Colla G., Pii Y., Secomandi E., De Gregorio M., Buffagni V., Garcia-Perez P., Lucini L., Rouphael Y.	Vegetal-derived biostimulants distinctively command the physiological and metabolomic signatures of lettuce grown in depleted nitrogen conditions	Scientia Horticulturae	Elsevier B.V.
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Vázquez-Blanco R., Arias-Estévez M., Fernández-Calviño D., Arenas-Lago D.	Early Growth Assessment of Lolium perenne L. as a Cover Crop for Management of Copper Accumulation in Galician Vineyard Soils	Horticulturae	Multidisciplinary Digital Publishing Institute (MDPI)
Vázquez-Blanco R., González-Feijoo R., Campillo-Cora C., Fernández-Calviño D., Arenas-Lago D.	Risk Assessment and Limiting Soil Factors for Vine Production—Cu and Zn Contents in Vineyard Soils in Galicia (Rías Baixas D.O.)	Agronomy	MDPI
Vega E.N., García-Herrera P., Ciudad-Mulero M., Dias M.I., Matallana-González M.C., Cámara M., Tardío J., Molina M., Pinela J., C.S.P. Pires T., Barros L., Fernández-Ruiz V., Morales P.	Wild sweet cherry, strawberry and bilberry as underestimated sources of natural colorants and bioactive compounds with functional properties	Food Chemistry	Elsevier Ltd
Vicente O., Al Hassan M., Boscaiu M., González-Orenga S.	Control of k+ homeostasis: an essential stress tolerance mechanism in plants	AgroLife Scientific Journal	University of Agronomic Sciences and Veterinary Medicine of Bucharest
Vieites-Álvarez Y., Otero P., López-González D., Prieto M.A., Simal-Gandara J., Reigosa M.J., Hussain M.I., Sánchez-Moreiras A.M.	Specialized Metabolites Accumulation Pattern in Buckwheat Is Strongly Influenced by Accession Choice and Co-Existing Weeds	Plants	Multidisciplinary Digital Publishing Institute (MDPI)
Wahid M., Saqib F., Akhtar S., Ali A., Tallei T.E., Simal–Gandara J.	Mechanistic insights of Cucumis melo L. seeds for gastrointestinal muscle spasms through calcium signaling pathway–related gene regulation networks in WGCNA and in vitro, in vivo studies	Computers in Biology and Medicine	Elsevier Ltd
Wan C., Langyan S., Echeverría J., Devkota H.P., Tewari D., Moosavi M.A., Ezzat S.M., Perez-Vazquez A., Fraga-Corral M., Cravotto G., Prieto M.A., Belwal T., li M.	Edible fruits and berries as a source of functional polyphenols: current scene and future perspectives	Phytochemistry Reviews	Springer Science and Business Media B.V.
Wang H., Huang X., Xia S., Chen C., Chen X., Zhang Y., Farag M.A., Xiao J., Nie S.	Celery soluble dietary fiber antagonizes flavonoids ameliorative effect on dextran-	Journal of Advanced Research	Elsevier B.V.

Authors	Title	Journal	Publisher
	sodium-sulfate-induced colitis in mice		
Wang H., Huang X., Xia S., Chen X., Chen C., Zhang Y., Xiao J., Nie S.	Antagonistic effect of kale soluble dietary fiber and kale flavonoids, fails to alleviate colitis	Food Frontiers	John Wiley and Sons Inc
Wang J., Rani N., Jakhar S., Redhu R., Kumar S., Kumar S., Kumar S., Devi B., Simal-Gandara J., Shen B., Singla R.K.	Opuntia ficus-indica (L.) Mill. - anticancer properties and phytochemicals: current trends and future perspectives	Frontiers in Plant Science	Frontiers Media SA
Wang M., Wu W., Xiao J., Li C., Chen B., Shen Y.	Recent Development in Antioxidant Peptides of Woody Oil Plant By-Products	Food Reviews International	Taylor and Francis Ltd.
Wang M., Zhou J., Tavares J., Pinto C.A., Saraiva J.A., Prieto M.A., Cao H., Xiao J., Simal-Gandara J., Barba F.J.	Applications of algae to obtain healthier meat products: A critical review on nutrients, acceptability and quality	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Wang Y., Ai C., Wang H., Chen C., Teng H., Xiao J., Chen L.	Emulsion and its application in the food field: An update review	eFood	John Wiley and Sons Inc
Wang Y., Dong M., Guo L., Zhu Y., Jiang Q., Xiao J., Wang M., Zhao Y.	Effect of acrolein on the formation of harman and norharman in chemical models and roast beef patties	Food Research International	Elsevier Ltd
Wang Z., Liu C., Shi Y., Huang M., Song Z., Simal-Gandara J., Li N., Shi J.	Classification, application, multifarious activities and production improvement of lipopeptides produced by Bacillus	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Wang Z., Wang M., Lu Y., Ji Y., Simal-Gandara J., Xiao F., Liu Y., Zhang L., Battino M., Li P., Xiao J., Xie Y., Lu B.	Single-Cell Transcriptomics Reveals the Difference of Aortic Atherosclerosis Response to Phytosterols and Oxidation Products of Sterols	Molecular Nutrition and Food Research	John Wiley and Sons Inc
Weng Z., Chen Y., Liang T., Lin Y., Cao H., Song H., Xiong L., Wang F., Shen X., Xiao J.	A review on processing methods and functions of wheat germ-derived bioactive peptides	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Wu H., Sang S., Weng P., Pan D., Wu Z., Yang J., Liu L., Farag M.A., Xiao J., Liu L.	Structural, rheological, and gelling characteristics of starch-based materials in context to 3D food printing applications in precision nutrition	Comprehensive Reviews in Food Science and Food Safety	John Wiley and Sons Inc
Wu W., Han Y., Niu B., Yang B., Liu R., Fang X., Chen H., Xiao S., Farag M.A., Zheng S., Xiao J., Chen H., Gao H.	Recent advances in Zizania latifolia: A comprehensive review on phytochemical, health benefits and applications that maximize its value	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Wu W., Jiang B., Liu R., Han Y., Fang X., Mu H., Farag M.A., Simal-Gandara J., Prieto M.A., Chen H., Xiao J., Gao H.	Structures and Functions of Cuticular Wax in Postharvest Fruit and Its Regulation: A Comprehensive Review with Future Perspectives	Engineering	Elsevier Ltd
Wu W., Niu B., Peng L., Chen Q., Chen H., Chen H., Xia W., Jin L., Simal-Gandara J., Gao H.	Recent advances on the effect of nut consumption on cognitive improvement	Food Frontiers	John Wiley and Sons Inc
Wu X., Huang H., Li M., Wang Y., Wu X., Wang Q., Shen J., Xiao Z.,	Excessive consumption of the sugar rich longan fruit promoted	Food Frontiers	John Wiley and Sons Inc

Authors	Title	Journal	Publisher
Zhao Y., Du F., Chen Y., Yang Y., Zhao Q., Zeng J., He Y., Xiao J.	the development of nonalcoholic fatty liver disease via mediating gut dysbiosis		
Xie L., Yang Q., Wu Y., Xiao J., Qu H., Jiang Y., Li T.	Fumonisin B1 Biosynthesis Is Associated with Oxidative Stress and Plays an Important Role in Fusarium proliferatum Infection on Banana Fruit	Journal of Agricultural and Food Chemistry	American Chemical Society
Xie Y., Geng Y., Yao J., Ji J., Chen F., Xiao J., Hu X., Ma L.	N-nitrosamines in processed meats: Exposure, formation and mitigation strategies	Journal of Agriculture and Food Research	Elsevier B.V.
Xue T., Jiang Q., Xiang L., Xiao J., Fan D., Wang M., Zhao Y.	Effect of chemical modification of κ-carrageenan on its inhibitory effect against heterocyclic amine (HAs) formation in roasted tilapia fish patties	International Journal of Biological Macromolecules	Elsevier B.V.
Yang G., Zhou M., Shi J., Peng Q., Lin Z., Lv H., Simal-Gandara J.	How anaerobic treatment is controlling the volatile components and key odorants of purple-colored leaf tea	Journal of Food Composition and Analysis	Academic Press Inc.
Yang J., Li M., Liu X., Liao Y., Zhao H., Chen J., Dai X., Simal-Gandara J., Kong Z., Zhang M.	Magnetic functionalized graphene oxide combined with ultra-high performance liquid chromatography for trace detection of succinate dehydrogenase inhibitor fungicides in food	Journal of Separation Science	John Wiley and Sons Inc
Yang L., Gao Y., Bajpai V.K., El-Kammar H.A., Simal-Gandara J., Cao H., Cheng K.-W., Wang M., Arroo R.R.J., Zou L., Farag M.A., Zhao Y., Xiao J.	Advance toward isolation, extraction, metabolism and health benefits of kaempferol, a major dietary flavonoid with future perspectives	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Yang L., Gao Y., Farag M.A., Gong J., Su Q., Cao H., Zhang W., Zhao Y., Wang H.	Dietary flavonoids and gut microbiota interaction: A focus on animal and human studies to maximize their health benefits	Food Frontiers	John Wiley and Sons Inc
Yang X., Niu Z., Wang X., Lu X., Sun J., Carpena M., Prieto M.A., Simal-Gandara J., Xiao J., Liu C., Li N.	The Nutritional and Bioactive Components, Potential Health Function and Comprehensive Utilization of Pomegranate: A Review	Food Reviews International	Taylor and Francis Ltd.
Yang Z., Li M., Li Y., Li Z., Huang X., Wang X., Shi J., Zou X., Zhai X., Povey M., Xiao J.	Improving properties of Litsea cubeba oil Pickering emulsion-loaded gelatin-based bio-nanocomposite film via optimizing blending ratio: Application for mango preservation	Food Hydrocolloids	Elsevier B.V.
Yang Z., Li M., Li Y., Wang X., Li Z., Shi J., Huang X., Zhai X., Zou X., Gong Y., Holmes M., Povey M., Xiao J.	Entrapment of probiotic (Bifidobacterium longum) in bilayer emulsion film with enhanced barrier property for improving viability	Food Chemistry	Elsevier Ltd

Authors	Title	Journal	Publisher
Yedra V.-Á., Otero P., Prieto M.A., Simal-Gandara J., Reigosa M.J., Sánchez-Moreiras A.M., Hussain M.I.	Testing the role of allelochemicals in different wheat cultivars to sustainably manage weeds	Pest Management Science	John Wiley and Sons Ltd
Yosri N., Alsharif S.M., Xiao J., Musharraf S.G., Zhao C., Saeed A., Gao R., Said N.S., Di Minno A., Daglia M., Guo Z., Khalifa S.A.M., El-Seedi H.R.	Arctium lappa (Burdock): Insights from ethnopharmacology potential, chemical constituents, clinical studies, pharmacological utility and nanomedicine	Biomedicine and Pharmacotherapy	Elsevier Masson s.r.l.
Yuan S.-N., Wang M.-X., Han J.-L., Feng C.-Y., Wang M., Wang M., Sun J.-Y., Li N.-Y., Simal-Gandara J., Liu C.	Improved colonic inflammation by nervonic acid via inhibition of NF-κB signaling pathway of DSS-induced colitis mice	Phytomedicine	Elsevier GmbH
Zhai K., Wang W., Zheng M., Khan G.J., Wang Q., Chang J., Dong Z., Zhang X., Duan H., Gong Z., Cao H.	Protective effects of Isodon Suzhouensis extract and glaucocalyxin A on chronic obstructive pulmonary disease through SOCS3–JAKs/STATs pathway	Food Frontiers	John Wiley and Sons Inc
Zhang C., Chen L., Lu M., Ai C., Cao H., Xiao J., Zhong S., Teng H.	Effect of cellulose on gel properties of heat-induced low-salt surimi gels: Physicochemical characteristics, water distribution and microstructure	Food Chemistry: X	Elsevier Ltd
Zhang C., He Y., Zheng Y., Ai C., Cao H., Xiao J., El-Seedi H., Chen L., Teng H.	Effect of carboxymethyl cellulose (CMC) on some physico-chemical and mechanical properties of unrinsed surimi gels	LWT	Academic Press
Zhang C., Lu M., Ai C., Cao H., Xiao J., Imran M., Chen L., Teng H.	Ultrasonic treatment combined with curdlan improves the gelation properties of low-salt Nemipterus virgatus surimi	International Journal of Biological Macromolecules	Elsevier B.V.
Zhang F., Chen S., Zhang J., Thakur K., Battino M., Cao H., Farag M.A., Xiao J., Wei Z.	Asparagus saponins: effective natural beneficial ingredient in functional foods, from preparation to applications	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Zhang F., Zhang X.-X., Zhang J.-G., Thakur K., Simal-Gandara J., Prieto M.A., Khan M.R., Cao H., Wei Z.-J.	Asparanin A exerts cytotoxicity on human endometrial cancer Ishikawa cells via regulating miR-6236-p5_4 expression	Food and Chemical Toxicology	Elsevier Ltd
Zhang J., Wang H., Ai C., Lu R., Chen L., Xiao J., Teng H.	Food matrix-flavonoid interactions and their effect on bioavailability	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Zhang J., Zhang J., Huang X., Shi J., Liu L., Song W., Zhai X., Xiao J., Hashim S.B.H., Li Z., Zou X., Povey M.	A visual bi-layer sensor based on Agar/TiO2/butterfly bean flower anthocyanin/κ-carrageenan with photostability for monitoring Penaeus chinensis freshness	International Journal of Biological Macromolecules	Elsevier B.V.
Zhang J., Zhang J., Huang X., Shi J., Muhammad A., Zhai X., Xiao J., Li Z., Povey M., Zou X.	Study on cinnamon essential oil release performance based on pH-triggered dynamic mechanism of active packaging for meat preservation	Food Chemistry	Elsevier Ltd

Authors	Title	Journal	Publisher
Zhang L., García-Pérez P., Arikan B., Elbasan F., Nur Alp F., Balci M., Zengin G., Yildiztugay E., Lucini L.	The exogenous application of wood vinegar induces a tissue- and dose-dependent elicitation of phenolics and functional traits in onion (Allium cepa L.)	Food Chemistry	Elsevier Ltd
Zhang L., García-Pérez P., Martinelli E., Giuberti G., Trevisan M., Lucini L.	Different fractions from wheat flour provide distinctive phenolic profiles and different bioaccessibility of polyphenols following in vitro digestion	Food Chemistry	Elsevier Ltd
Zhang M.-Q., Sun K.-X., Guo X., Chen Y.-Y., Feng C.-Y., Chen J.-S., Barreira J.C.M., Prieto M.A., Sun J.-Y., Zhang J.-D., Li N.-Y., Liu C.	The antihyperuricemia activity of Astragali Radix through regulating the expression of uric acid transporters via PI3K/Akt signalling pathway	Journal of Ethnopharmacology	Elsevier Ireland Ltd
Zhang M.-Q., Zhang J., Zhang Y.-T., Sun J.-Y., Prieto M.A., Simal-Gandara J., Putnik P., Li N.-Y., Liu C.	The link between the phenolic composition and the antioxidant activity in different small berries: A metabolomic approach	LWT	Academic Press
Zhang R.-R., Zhang J., Guo X., Chen Y.-Y., Sun J.-Y., Miao J.-L., Carpena M., Prieto M.A., Li N.-Y., Zhou Q.-X., Liu C.	Molecular mechanisms of the chemical constituents from anti-inflammatory and antioxidant active fractions of Ganoderma neo-japonicum Imazeki	Current Research in Food Science	Elsevier B.V.
Zhang Y., Capanoglu E., Jiao L., Yin L., Liu X., Wang R., Xiao J., Lu B.	Coarse cereals modulating chronic low-grade inflammation: review	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Zhang Y., Hao R., Chen J., Li S., Huang K., Cao H., Farag M.A., Battino M., Daglia M., Capanoglu E., Zhang F., Sun Q., Xiao J., Sun Z., Guan X.	Health benefits of saponins and its mechanisms: perspectives from absorption, metabolism, and interaction with gut	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Zhao Y., Xia T., Qiang X., Wang Y., Kang C., Meng Y., Cheng Y., Wang M., Xiao J.	Zhenjiang aromatic vinegar prevents the alcohol liver disease in mice via autophagy	eFood	John Wiley and Sons Inc
Zhong W., Gong J., Su Q., Farag M.A., Simal-Gandara J., Wang H., Cao H.	Dietary polyphenols ameliorate inflammatory bowel diseases: advances and future perspectives to maximize their nutraceutical applications	Phytochemistry Reviews	Springer Science and Business Media B.V.
Zou L., Wu D., Ren G., Hu Y., Peng L., Zhao J., Garcia-Perez P., Carpena M., Prieto M.A., Cao H., Cheng K.-W., Wang M., Simal-Gandara J., John O.D., Rengasamy K.R.R., Zhao G., Xiao J.	Bioactive compounds, health benefits, and industrial applications of Tartary buckwheat (Fagopyrum tataricum)	Critical Reviews in Food Science and Nutrition	Taylor and Francis Ltd.
Zuzunaga-Rosas J., González-Orenga S., Calone R., Rodríguez-Heredia R., Asaff-Torres A., Boscaiu M., Ibáñez-Asensio S., Moreno-Ramón H., Vicente O.	Use of a Biostimulant to Mitigate the Effects of Excess Salinity in Soil and Irrigation Water in Tomato Plants	Plants	MDPI

Books

Table 25: List of Books Published by IAA Research Staff in 2023.

Author	Title	Publisher	ISSN/ISBN
Carballo García, Francisco Javier	La pequeña industria láctea en el medio rural en zonas de montaña	Universidad de León	978-84-18490-53-8
Carballo Rodríguez, Julia	E ti, ¿qué científicas coñeces?	Universidade de Vigo	978-84-8158-994-8
Simal Gándara, Jesús	Alimentos do futuro	Servizo de Publicacións; Universidade de Vigo	978-84-8158-966-5

Book Chapters

Table 26: List of Book Chapters Published by IAA Research Staff in 2023.

Author	Title	Publisher	ISSN/ISBN
Arenas Lago, Daniel Arias Estévez, Manuel Campilo Cora, Claudia González Feijoo, Rocío	Implicacións ambientais, agrícolas e económicas do uso de nanoagroquímicos cara a unha produción alimentaria sostible de Brassica oleracea var. capitata L.	Proxectos INOU 2022: Investigación aplicada na provincia de Ourense	Vicerreitoría do Campus de Ourense; Universidade de Vigo
Arenas Lago, Daniel Rodríguez Seijo, Andrés Santás Miguel, Vanesa	Current Methodology for Extraction, Separation, Identification, and Quantification of Microplastics in Terrestrial Systems	Handbook of Environmental Chemistry	Springer Science and Business Media Deutschland GmbH
Arias Estévez, Manuel Fernández Calviño, David Santás Miguel, Vanesa	Biotic and Abiotic Contamination Due to Emerging Pollutants in Sewage Sludge and Soils: A Country-Based Perspective	Handbook of Environmental Chemistry	Springer Science and Business Media Deutschland GmbH
Cancho Grande, Beatriz Figueiredo González, María González Barreiro, Carmen Pérez Gregorio, María Rosa Reboredo Rodríguez, Patricia	Recuperación e avaliación dos compostos fenólicos das podas das oliveiras autóctonas galegas	Proxectos INOU 2022: Investigación aplicada na provincia de Ourense	Vicerreitoría do Campus de Ourense; Universidade de Vigo

Author	Title	Publisher	ISSN/ISBN
Cao, Hui Carpena Rodríguez, María Fraga Corral, María García Pérez, Pascual Pérez Gregorio, María Rosa Prieto Lage, Miguel Ángel Simal Gándara, Jesús	Sulfur-containing compounds from plants	Natural Secondary Metabolites: From Nature, Through Science, to Industry	Springer International Publishing
Cassani, Lucía Victoria Echave Álvarez, Javier García Oliveira, Paula González Pereira, Antía Otero Fuertes, Paz Prieto Lage, Miguel Ángel Seyyedi Mansour, Sepidar Simal Gándara, Jesús Xiao, Jianbo	Plant alkaloids: Production, extraction, and potential therapeutic properties	Natural Secondary Metabolites: From Nature, Through Science, to Industry	Springer International Publishing
Cassani, Lucía Victoria Fraga Corral, María González Pereira, Antía Prieto Lage, Miguel Ángel	Non-alkaloid nitrogen-containing compounds from fungi	Natural Secondary Metabolites: From Nature, Through Science, to Industry	Springer International Publishing
Chamorro, Franklin Echave Álvarez, Javier Fraga Corral, María González Pereira, Antía Prieto Lage, Miguel Ángel Seyyedi Mansour, Sepidar Simal Gándara, Jesús Xiao, Jianbo	Valorization of food waste biomass and biomaterials from a circular economy approach	Sustainable Development and Pathways for Food Ecosystems: Integration and Synergies	Elsevier
de São Pedro Pires, Tânia Cristina Taofiq, Oludemi	Biochemistry of secondary metabolism of fungi	Natural Secondary Metabolites: From Nature, Through Science, to Industry	Springer International Publishing
Falqué López, Elena	Algal proteins, peptides and amino acids	Functional Ingredients from Algae for Foods and Nutraceuticals, Second Edition	Elsevier
Ferreira Santos, Pedro Miguel	Isolation, Technological Functionalization, and Immobilization Techniques Applied to Cereals and Cereal-	Sourdough Innovations: Novel Uses of Metabolites, Enzymes, and	CRC Press

Author	Title	Publisher	ISSN/ISBN
	Based Products and Sourdough Microorganisms	Microbiota from Sourdough Processing	
Gullón Estévez, Beatriz Rodríguez Martínez, Beatriz Romaní Pérez, Aloia	Introduction: state of the art of fruit and vegetable waste management	Fruit and Vegetable Waste Utilization and Sustainability	Elsevier
Lobato Rodríguez, Álvaro García del Río, Pablo Gullón Estévez, Beatriz Garrote Velasco, Gil Romaní Pérez, Aloia	State-of-the-Art Technologies for Production of Biochemicals from Lignocellulosic Biomass	Biorefinery: A Sustainable Approach for the Production of Biomaterials, Biochemicals and Biofuels	Springer Nature
Otero Fuertes, Paz Pérez Gregorio, María Rosa Simal Gándara, Jesús	Extraction and production of drugs from plant	Phytochemicals in Medicinal Plants: Biodiversity, Bioactivity and Drug Discovery	De Gruyter
Pérez Gregorio, María Rosa	New trends from plant secondary metabolism in the pharmaceutical industry	Natural Secondary Metabolites: From Nature, Through Science, to Industry	Springer International Publishing
Pérez Lamela, María Concepción	Green Technologies for Sustainable Food Production and Preservation: High-Pressure Processing	Sustainable Food Science - A Comprehensive Approach: Volumes 1-4	Elsevier
Pires Fernandes, Filipa Alexandra	Non-alkaloid nitrogen containing compounds	Natural Secondary Metabolites: From Nature, Through Science, to Industry	Springer International Publishing
Reboredo Rodríguez, Patricia	Capítulo 5. El proceso didáctico desde no lector hasta lector competente por medio de un ajuste en los macronutrientes	La innovación docente en pedagogía y su contribución social mediante la transferencia de conocimientos	Dykinson
Reboredo Rodríguez, Patricia	Desenvolvemento de procesos para o aproveitamento e a valorización de podas da oliveira dentro dun contexto de biorrefinaría multiproduto	Proxectos INOU 2022: Investigación aplicada na provincia de Ourense	Vicerreitoría do Campus de Ourense; Universidade de Vigo
Reboredo Rodríguez, Patricia	Plan didáctico para aprender la composición de los alimentos a partir de objetos mágicos representados en la LIJ gallega	Renovación pedagógica y formación del profesorado en competencias para	Dykinson

Author	Title	Publisher	ISSN/ISBN
		una educación sostenible	
Reboredo Rodríguez, Patricia	Unidad didáctica para aprehender la calidad sensorial de los alimentos con lecturas literarias	Equilibrio social: perspectivas de análisis y mejora para las sociedades del siglo XXI	Dykinson
Lin, Shiye Xiao, Jianbo	Impact of thermal processing on dietary flavonoids	Advances in Food and Nutrition Research	Academic Press Inc.
Xiao, Jianbo	Valorization of Olea europaea and olive oil processing by-products/wastes	Advances in Food and Nutrition Research	Academic Press Inc.

ANNEX V: THESES DEFENDED

Table 27: Theses supervised by IAA research staff in 2023.

Supervisor	Co-supervisor	Thesis Title	Institution	Student	Grade
Manuel Arias Estévez		Procesos de degradación, adsorción y desorción de tres antibióticos en suelos de cultivo de Galicia	Universidade de Vigo	Cristina Álvarez Esmorís	CUM LAUDE
Manuel Arias Estévez	David Fernández Calviño	Use of soil microbial communities as indicators of soil pollution by heavy metals	Universidade de Vigo	Claudia Campillo Cora	CUM LAUDE
Olga Escuredo Pérez	María del Carmen Seijo Coello	Estimation of the risk of early blight disease during the vegetative development of the potato crop and its storage	Universidade de Vigo	Laura Meno Fariñas	CUM LAUDE
Francisco Javier Rodríguez Rajo	María Fernández González	Carga alergénica en la atmósfera de la ciudad de Ourense	Universidade de Vigo	Sabela Álvarez López	CUM LAUDE
Manuel Arias Estévez	Juan Carlos Nóvoa Muñoz	Transference, accumulation and distribution of Hg in biotic and abiotic components of forested ecosystems	Universidade de Vigo	Melissa Méndez López	CUM LAUDE
Pedro Antonio Araujo Nespereira		Modelos territoriales de aprovechamiento de los recursos termales en Europa	Universidade de Vigo	José Ángel Vázquez Barquero	CUM LAUDE

Supervisor	Co-supervisor	Thesis Title	Institution	Student	Grade
María Jesús Iglesias Briones		Towards a reliable European assessment of soil biodiversity status under current land use changes	Universidade de Vigo	Julia Koninger	CUM LAUDE

ANNEX VI: PATENTS IN 2023

Patents

Table 28: List of patents filed or applied for in 2023 by IAA staff.

Researcher	Patent	Code	Notes
Ana Maria Torrado Agrasar Clara Fuciños González	Proceso de producción de productos derivados de la Hemicelulosa.	PCT/ES2023/070562	Patente Internacional Activa
Elena Falqué Lopez	Hidrodestilados antimicrobianos de orujo de oliva, procedimiento de obtención, y proceso de encapsulación en micropartículas para su uso en composiciones cosméticas y/o dermatológicas.	PCT/ES2023/070791	Patente Internacional Activa

Spin-Offs

Table 29: List of Spin-Offs

Researcher	Spin-Off	Notes
Luis Alfonso Rodríguez López	Microbiotex	

ANNEX VII: IAA MEDIA COVERAGE IN 2023

University of Vigo News (DUVI)

16 de enero. O Goberno concédelle á UVigo máis dun millón de euros para pór en marcha nove proxectos “proba de concepto”.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/goberno-concedelle-uvigo-mais-dun-millon-euros-marcha-nove-proxectos-proba-concepto

18 de enero. Institutos, especialización e ampliación. Enlace

web.

https://www.uvigo.gal/universidade/comunicacion/duvi/ourense-celebra-primeiro-consello-campus-dun-ano-que-presenta-moi-positivo

2 de marzo. Regulamento da planta piloto de Industrias Agroalimentarias e nova denominación de Cinbio.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/consello-goberno-aproba-maioria-modificacion-normas-elaboracion-plan-organizacion-docente

4 de mayo. Os novos institutos de Física e Ciencias Aeroespaciais e de Agroecoloxía e Alimentación amosan o seu potencial ao empresariado ourensán.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/os-novos-institutos-fisica-ciencias-aeroespaciais-agroecoloxia-alimentacion-amosan-seu-potencial-ao

9 de junio. O Instituto de Agroecoloxía e Alimentación dótase dunha xunta directiva, un comité científico e un comité asesor externo.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/instituto-agroecoloxia-alimentacion-dotase-dunha-xunta-directiva-comite-cientifico-comite-asesor

20 de junio. Continúa a posta en marcha do IAA.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/manuel-reigosa-anuncia-consello-goberno-nomeamento-javier-rodriguez-rajo-vicerreitor-campus-ourense

10 de julio. O proxecto europeo Agrosus desenvolverá estratexias agroecolóxicas para previr e manexar as malas herbas en cultivos de relevancia económica.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/proxecto-europeo-agrosus-desenvolvera-estratexias-agroecoloxicas-previr-manexar-malas-herbas

12 de julio. 11,5 m€ captados en 25 proxectos europeos no que vai de 2023.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/medidas-aforro-enerxetico-deste-inverno-permitiron-evitar-gasto-517330-euros-emision-9402-toneladas

25 de agosto. A UVigo, unha das 600 mellores universidades do mundo.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/uvigo-600-mellores-universidades-mundo

14 de septiembre. Un proxecto estatal desentrañará o destino do mercurio en ecosistemas forestais do suroeste de Europa.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/proxecto-estatal-desentranara-destino-mercurio-ecosistemas-forestais-suroeste-europa

10 de octubre. 33 investigadores da UVigo, entre os máis citados do mundo segundo o ránking da Universidade de Stanford.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/33-investigadores-uvigo-os-mais-citados-mundo-segundo-ranking-universidade-stanford

27 de octubre. A UVigo sitúase no posto 15 do mundo en Ciencia e Tecnoloxía dos Alimentos.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/uvigo-situase-posto-15-mundo-ciencia-tecnoloxia-alimentos

8 de noviembre. A Universidade de Vigo liderará tres proxectos POCTEP con preto de 800.000 euros de orzamento.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/universidade-vigo-liderara-tres-proxectos-poctep-preto-800000-euros-orzamento

30 de noviembre. O proxecto Net4food porá en marcha unha rede de excelencia alimentaria na eurorrexión Galicia-norte de Portugal.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/proxecto-net4food-pora-marcha-rede-excelencia-alimentaria-eurorrexion-galicia-norte-portugal

22 de diciembre. Dotación dos programas de gasto e liñas de actuación.

Enlace web.

https://www.uvigo.gal/universidade/comunicacion/duvi/universidade-vigo-volvera-ter-orzamento-record-2488-millons-euros-2024

External Press (outside the University)

17 de enero. La Región. La UVigo capta un millón de euros para investigación.

Enlace web.

https://www.laregion.es/articulo/ourense/uvigo-capta-millon-euros-investigacion/20230116222220119047 7.html

29 de enero. Diario de Pontevedra. David Fernández Calviño, área de Edafoloxía e Química Agrícola UVigo: "Os agroquímicos son un concepto máis amplo que os fitosanitarios"».

Enlace web.

https://www.diariodosalnes.es/articulo/comarca/agroquimicos-son-concepto-mais-amplo-que-fitosanitarios/20221212192232006731.html

5 de mayo. Faro de Vigo. Os novos institutos de investigación do campus potenciarán a alianza con empresas.

Enlace web.

https://galego.farodevigo.es/ourense/2023/05/05/nuevos-institutos-investigacion-campus-potenciaran-86891065.html

5 de mayo. La Región. La UVigo ofrece su I+D+i a las empresas de San Cibrao.

Enlace web.

https://www.laregion.es/articulo/ourense/uvigo-ofrece-i-d-i-empresas-san-cibrao/20230504222216121732 6.html

5 de mayo. Economía en Galicia. Los nuevos institutos de Física e Ciencias Aeroespaciais y de Agroecoloxía e Alimentación muestran su potencial.

Enlace web.

https://www.economiaengalicia.com/articulo/innovacion/nuevos-institutos-fisica-ciencias-aeroespaciais-agroecoloxia-alimentacion-muestran-potencial/20230504173424023856.html

23 de mayo. Faro de Vigo. El nuevo instituto de Agroecología y Alimentación prevé captar diez millones para investigación hasta 2025.

Enlace web.

https://www.farodevigo.es/ourense/2023/05/23/nuevo-instituto-agroecologia-alimentacion-preve-87740818.html

10 de junio. La Voz de Galicia. David Fernández Calviño dirige el Instituto de Agroecoloxía.

Enlace web.

https://www.lavozdegalicia.es/noticia/ourense/ourense/2023/06/09/david-fernandez-calvino-dirige-instituto-agroecoloxia/00031686326106045774474.htm

11 de julio. Faro de Vigo. Un proyecto busca acabar con las malas hierbas sin utilizar pesticidas sintéticos.

Enlace web.

https://www.farodevigo.es/ourense/2023/07/11/proyecto-busca-acabar-malas-hierbas-89728404.html

11 de julio. La Voz de Galicia. Investigadores gallegos participan en un proyecto para prevenir las malas hierbas sin herbicidas sintéticos.

Enlace web.

https://www.lavozdegalicia.es/noticia/ourense/2023/07/10/investigadores-gallegos-uvigo-participan-proyecto-prevenir-malas-hierbas-herbicidas-sinteticos/00031689003007415737236.htm

11 de julio. Metropolitano.gal. Un proxecto liderado pola UVigo desenvolverá estratexias agroecolóxicas para previr as malas herbas.

Enlace web.

https://metropolitano.gal/enfoque/un-proxecto-liderado-pola-uvigo-desenvolvera-estratexias-agroecoloxicas-para-previr-as-malas-herbas/

12 de julio. GCiencia. Un equipo da UVigo lidera un proxecto para previr as malas herbas sen herbicidas sintéticos.

Enlace web.

https://www.gciencia.com/universidade-gl/equipo-uvigo-proxecto-previr-malas-herbas-herbicidas-sinteticos/

26 de octubre. Faro de Vigo. A UVigo lidera un proxecto europeo contra as malas herbas con alternativas agroecolóxicas.

Enlace web.

https://galego.farodevigo.es/gran-vigo/2023/10/26/uvigo-lidera-proyecto-europeo-malas-93802027.html

28 de octubre. La Voz de Galicia. El campus de Ourense coloca a la Universidad de Vigo entre las 15 mejores en investigación sobre tecnología alimentaria.

Enlace web.

https://galego.lavozdegalicia.es/noticia/ourense/ourense/2023/10/27/campus-ourense-coloca-universidad-vigo-15-primeras-investigacion-agroecologia-tecnologia-alimentos/00031698418397883315305.htm

28 de octubre. La Región. La investigación en Alimentos de Ourense ya le pisa los talones a China.

Enlace web.

https://www.laregion.es/articulo/ourense/investigacion-area-alimentos-ourense-bate-record/20231027172853125 1825.html

28 de octubre. Atlántico. La UVigo tiene siete materias entre las mejores 500 del mundo, según Shanghai.

Enlace web.

https://www.atlantico.net/articulo/vigo/ranking-shanghai-situa-materias-universidad-vigo-500-mejores-mundo/20231027112910100531 6.html

6 de noviembre. Faro de Vigo. Investigadores del campus demandan apoyo tras escalar a las primeras posiciones del top mundial.

Enlace web.

https://www.farodevigo.es/ourense/2023/11/06/investigadores-campus-demandan-apoyo-escalar-94246583.html

17 de noviembre. GCiencia. Historia da primeira portada: o deputado que escapou a Copenhage a investigar.

Enlace web.

https://gciencia.gal/10-aniversario-gciencia/historia-primeira-portada-deputado-escapou-copenhage-investigar/

29 de noviembre. La Región. La élite alimentaria capta 2,5 millones en un año desde Ourense.

Enlace web.

https://www.laregion.es/articulo/ourense/elite-alimentaria-capta-25-millones-ano-ourense/20231129070000125795 7.html

1 de diciembre. Faro de Vigo. Una red de investigación para el sector alimentario conecta talento a ambos lados de la 'raia'.

Enlace web.

https://www.farodevigo.es/ourense/2023/12/01/red-investigacion-sector-alimentario-conecta-95324627.html

1 de diciembre. La Voz de Galicia. Ourense colabora en la creación de un laboratorio ibérico de alimentos.

Enlace web.

https://www.lavozdegalicia.es/noticia/ourense/ourense/2023/11/30/ourense-ayuda-crear-laboratorio-iberico-alimentos/00031701363245651333819.htm

1 de diciembre. La Región. La élite alimentaria de Ourense teje una red con investigadores lusos.

Enlace web.

https://www.laregion.es/comarca-de-ourense/elite-alimentaria-ourense-teje-red-investigadores-lusos_1_20231201-2418127.html