

LASCARAY

RESEARCH CENTRE

SCIENTIFIC ACTIVITY REPORT

2014



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LASCARAY RESEARCH CENTRE

The Lascaray Research Centre opened on 26 November 2009 aiming to ensure and promote research and teaching and transferring knowledge to the productive sector.

It is located in the centre of the Campus of Álava, at Avenida Miguel de Unamuno 3, 01006 Vitoria-Gasteiz. Contact tel.: (34) 945014500.



It has a provisional Coordination Body for the integration of the services and activities of the Centre and serves as representative of the Vice Rector's Office of the Álava Campus.

The Coordinator is Professor Marian M. de Pancorbo, and the Coordinator's Advisor is Professor Jorge Martínez Quesada.

This is a pioneer building in environmental sustainability because it has a geothermal exchange system that takes advantage of the ground's thermal inertia.

The Lascaray Ikergunea Research Centre houses research of the highest excellence. The spaces are occupied by 16 groups of investigators, General Research Services (SGIker) of the Álava Campus and a business incubator.



In addition to the research facilities, the Centre has spaces for training, administration and a multimedia laboratory. The Groups and General Research Services are located in the Centre in laboratories equipped with the latest scientific equipment. The Centre also has common research areas, whose use is accessible to all groups and services located in the Centre.

Events attracting large numbers of the public, such as the Science Week or the Employment Fair have The Lascaray Centre as their headquarters, where also numerous acts and UPV/EHU prize awarding events take place (Campus of Álava). Information about activities and users of the Centre can be found on: www.ehu.eus/lascarayikergunea or www.ehu.eus – Campus of Álava.



STRATEGIC LINES

Mission

Generate and transmit knowledge through the development of advanced and innovative research lines, in Biosciences and Quality of Life, contributing in the near future to improving people's wellbeing. The Strategic Lines addressed are: Pharmaceutical Development, Forensic Science, Food Safety and Quality, Molecular Microbiology, Parasitology and Immunoallergy; Nutrition; Pathophysiology (heart related) Aging Prevention (neurodegenerative diseases and advanced cell therapy) and Biodiversity.

Vision

Become a center of international reference in research and training in Biosciences and Quality of Life. With its current capacity and future potential, the Center's will join Euskampus Excellence in Research activities and expand internationally by signing agreements with national and international scientific institutions and networks.



Values

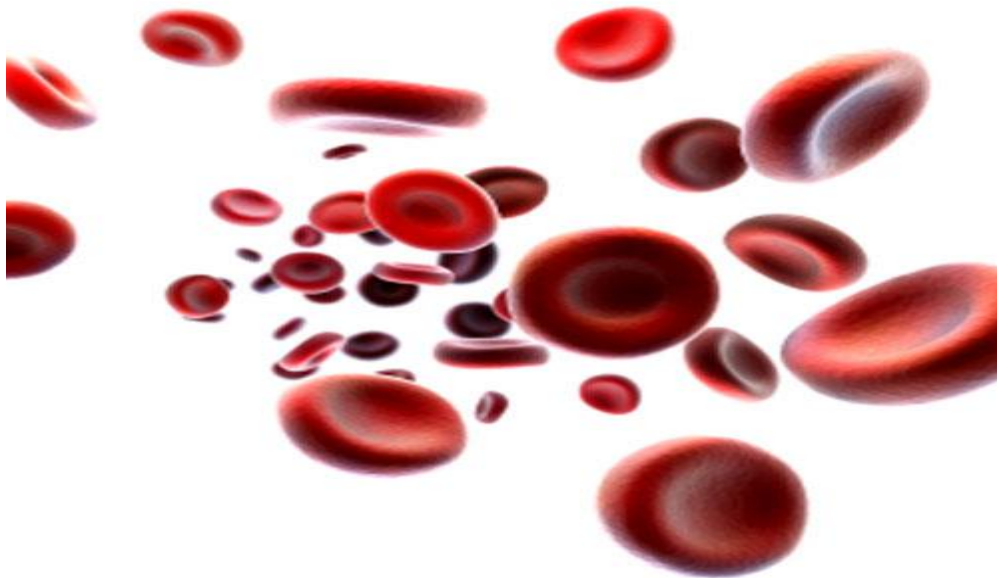
- Scientific and innovative capacity
- Commitment
- Cooperation
- Trust
- Critical Spirit
- Innovation and sustainability
- Social responsibility
- Scientific rigor
- Excellence

Objetives

- Generate knowledge in Biosciences and Quality of Life.
- Promote high qualification training.
- Encourage incorporation of post-doctoral and young researchers to the Center.
- Strengthen its facilities and equipment.
- Implement a Quality Plan to ensure management certification and procedure accreditation.
- Promote cooperation amongst the Center's Research Groups.
- Increase current results regarding excellence indicators: dissertations, research projects, patents and publications.
- Become a scientific-technical benchmark.
- Transfer knowledge derived from research.
- Foster collaboration with companies and generate agreements at the international, state and/or local level with agencies/institutions, etc.
- Boost internationalization of the Center's image and participation in national and international networks.
- Pass the benefits from this type of Center on to society.



LASCARAY ACTIVITIES



LASCARAY ACTIVITIES

Apart from activities, courses, masters and meetings conducted by the Research Groups, other seminars and events have been carried out by the Campus and the Centre organisers. These activities have helped to establish relations among Lascaray researchers and promote the culture of entrepreneurship within the University community.

Further information about the activities as well as videos and pictures of the events are available at www.ehu.eus/lascarayikergunea



Technical seminar on water purification for laboratories

On 4th March, Jorge Nicolás, an specialist in water purification applications at Merck Millipore, conducted a technical seminar to Milli-Q equipment users at Lascaray Centre, and dealt, among other topics, with drinking water contaminants and measurement, Type-I ultrapure Water from purified water, Type-II ultrapure water from water systems, purified water and ultrapure water in just one equipment, Selection of water quality suitable for each application, and a Guide to Good practice regarding the use of a water purification system.

INIZIA-AGUDEZIA Workshop



The INIZIA-AGUDEZIA Workshop on entrepreneurship has had, in its edition of 2014, the participation of 15 people (students and former students from different universities and a Lecturer from the Faculty of Arts). Conducted by A+g Consultores de Gestión, S. Coop, under the methodological approach BIZIKIRO Living Management, 10 theoretical and practical group sessions were performed.

In the Workshop, individualised tutoring was carried out with 13 attendees for the development of 12 business ideas/projects, of different length and depth of analysis, based on the different degrees of initial maturation of the idea and personal characteristics of the promoters.

More information: <http://agudezia.blogspot.com.es/>

Alava Campus of the University of the Basque Country (UPV/EHU Campus Álava) and CIC Energigune Convention

On 12th May 2014 the first Álava Campus of University of the Basque Country (UPV/EHU-Campus de Álava) and CIC Energigune convention was held in the Videoconference Room of the Centre. The event was attended by lecturers and researchers from the Engineering School and the UPV/EHU Pharmacy School, as well as the Director of Corporate Development and CIC Energigune Scientific Directors.



American Journal Experts Magazine Seminars

On 16th May 2014, the Head of educational programs of American Journal Experts magazine, Mara Daltabuit, presented two seminars to researchers from Álava Campus of the University of the Basque Country: "*How to publish in a scientific magazine*" and "*How to choose the right magazine for my research*". The aim of both seminars was to support international researchers with the necessary tools to address both the process of writing in English and the presentation of their work. Besides, new tools to improve efficiency in publication times and visibility of internationally were addressed.

Lunch with Science at Lascaray



"Lunch with Science" started in 2014 as an activity where young researchers share the experiences and strategies that have led them to consolidate their position and also introduce their most relevant research lines.

The aim of this activity is to show the dynamics of work to consolidate a research career; the audience targeted is students interested in research and development, young researchers in training and, in general, lecturers/researchers from the university community. During the sessions, pizza and refreshments were offered to attendees.



The lunch periods held in 2014 were:

- 17/06/2014. Speaker: PhD Idoia Postigo Resa, PDI of the University of the Basque Country (UPV/EHU), linked to the Parasitology and Immunoallergy area.
- 15/10/2014. Speaker: PhD Marta Sánchez-Carbayo, Ikerbasque Researcher. Presentation title "*Translational approaches in bladder cancer*".

Conference cycle: Quaternary Science in the 21st Century

The Geography, Prehistory and Archaeology Department of the conference cycle "*Quaternary Science in the 21st century*", with seven conferences given by international researchers on different Quaternary topics. These conferences were celebrated between 09/10/14 and 13/11/14 in the Videoconference Room of Lascaray Research Centre and in the Grade meeting room of the Faculty of Arts

Sectoral meetings, panel discussions and Agricultural sectoral panel discussions



In the last quarter of 2014, with the aim to analyse and assess the agricultural sector in Álava, a series of meetings and sectoral panel discussions were held, where numerous experts and sector agents took part

30th October	Sectoral meeting on Livestock Operations and agricultural products in Álava
	Panel discussion on meat production and derivatives from sheep and goat farms
31st October	Sectoral panel discussion on malting barley and the breweries sector
4th November	Sectoral panel discussion on fruticulture and cyder
5th November	Sectoral panel discussion on Gourmet, fine foods; Do Rioja oil, Añana salt, pastry, snails, truffles...
10th November	Sectoral panel discussion on bread grains
12th November	Sectoral panel discussion on horticultural products, potatoes and pulses
26th November	Sectoral meeting on Organic Farming
	Panel discussion among organic farming agents in Álava
3rd December	Sectoral meeting on commercialisation and enhancement of local products
	Panel discussion on enhancement of local products and commercialisation

INIZIA 2014 Dissemination Days

On 10th and 12th November, company BAIGENE S.L., located in INIZIA business incubator, conducted the Conference day *"Enterprise and creation from innovation"*, at Lascaray, whose objectives were the recognition of entrepreneurial opportunities, preparation and dissemination of mixed operative strategies, materialisation of opportunities and growth management.

Uniemprededor INIZIA-4th Edition Prize-giving ceremony



Among the activities developed by the Vicerrectorate of the Campus in order to promote entrepreneurial culture, is the Call for Uniemprededor INIZIA prize-giving ceremony. This biennial event is included in the INIZIE Alava Campus program aimed at the university community, seeking to encourage, advise and support entrepreneurs.

The 4th edition of this event has taken place this year, where 12 projects have been presented. The prize-giving ceremony was held in Lascaray Videoconference room on 17th November.

Vitoria-Gasteiz 2014 Employment Forum



On 11th and 12th December, the Vitoria-Gasteiz 2014 Employment Forum was held, an initiative financed and organised between Álava Campus of the University of the Basque Country (UPV/EHU) and the Economic Promotion Department of Vitoria-Gasteiz City Council.

This has been the 5th edition of the Forum, based on the conviction that by means of a suitable service offer to those people who actively search for employment as well as those professionals in the field of employment guidance the position of our local human resources will be enhanced in the work market. The information of this event is available at: <http://empleo-gune.org/2014/es/index.php>



Multimedia Authoring Workshop in Álava Campus (LEMMCA)

The Centre has a multimedia room with 11 computers to support teaching activities, to develop teaching material by the research and teaching staff, to support research activities and to conduct training courses for lecturers. In 2014 different sessions of the Forensic Analysis Master of the University of the Basque Country (UPV/EHU) were taught.



It is also a place of reference and support for technicians and audiovisual services in the Campus with the aim to carry out activities focusing on the practical training of the university community.

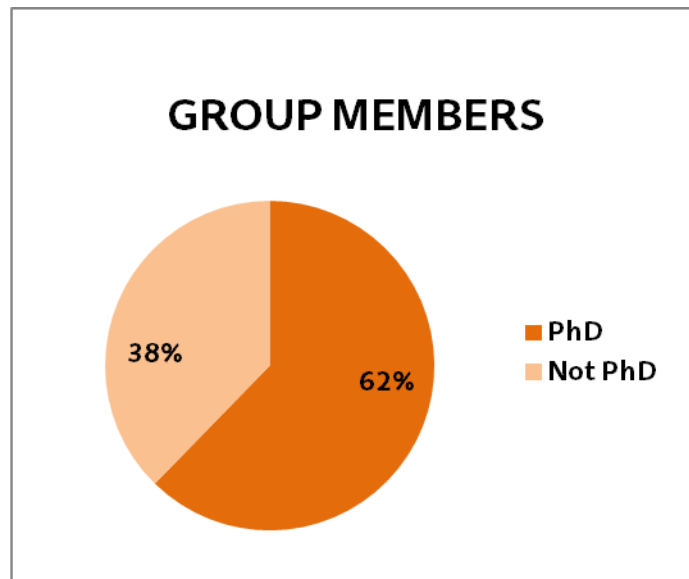
LASCARAY IN FIGURES



GROUP MEMBERS

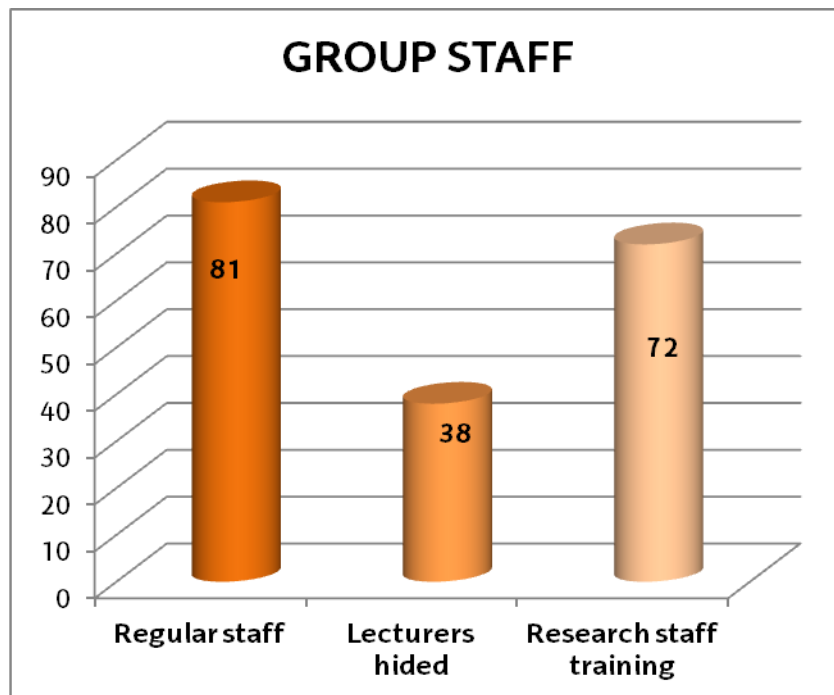


191 researchers have worked in the 16 Lascaray Research Centre Groups in 2014. The number of researchers has considerably increased since the opening of the Centre, which means that projects and activities conducted are also significantly increasing.



The research staff is classified into three types, as show below:

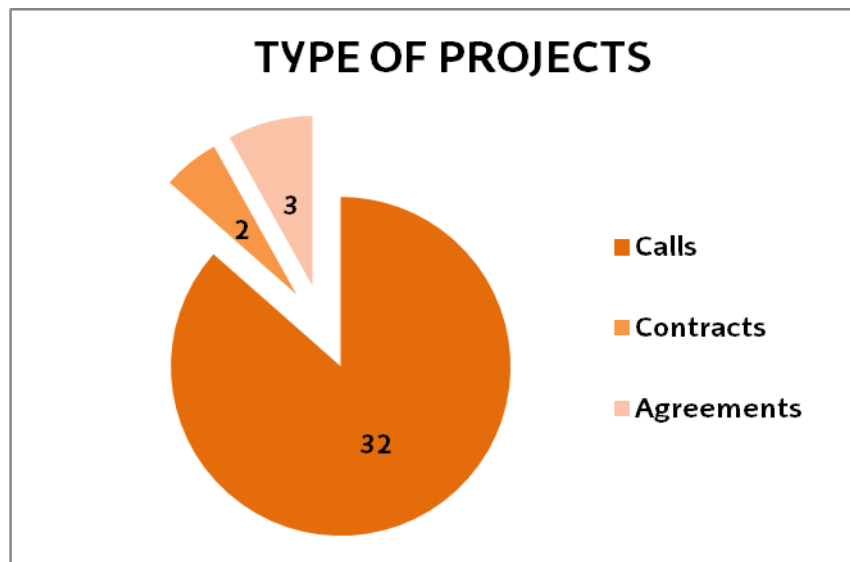
Staff on the UPV/EHU payroll (Professor Staff and Tenured Faculty), Contract PhD Staff (Ramon y Cajal, Ikerbasque Programmes and Juan de la Cierva, temporary staff, other PhD-research staff) and Research Staff in Training (predoctoral and/or fellows).



PROJECTS

Types of projects according to the sources of funding

In 2014 the Centre Groups launched 37 projects, which secured funding through Tenders, Contracts and Agreements.



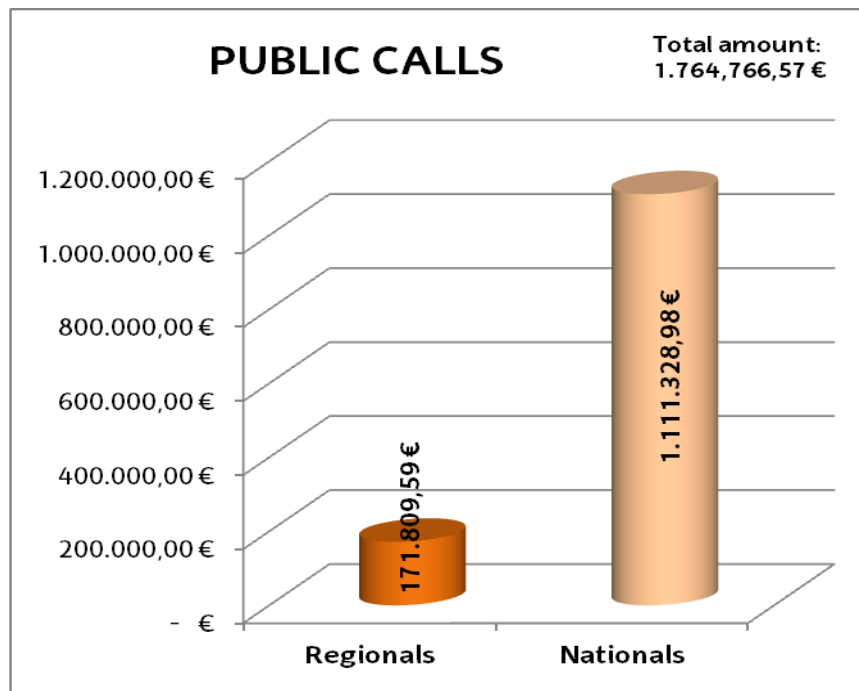
Among the projects initiated in 2014, several projects corresponding to calls from previous years have been included, as project resolution concessions, such as Saiotek-2013, were published in 2014 and in most cases these projects were not included in the Memory of projects from last year.

Projects classified by amount

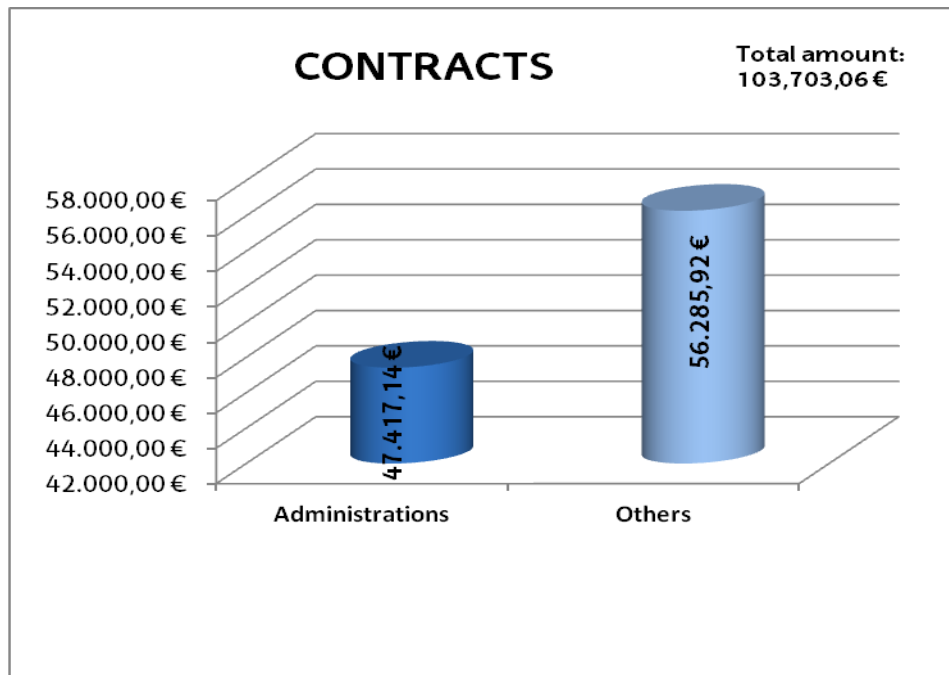
The overall funding achieved by the research groups during 2014 was € 1,938.469,63 €.



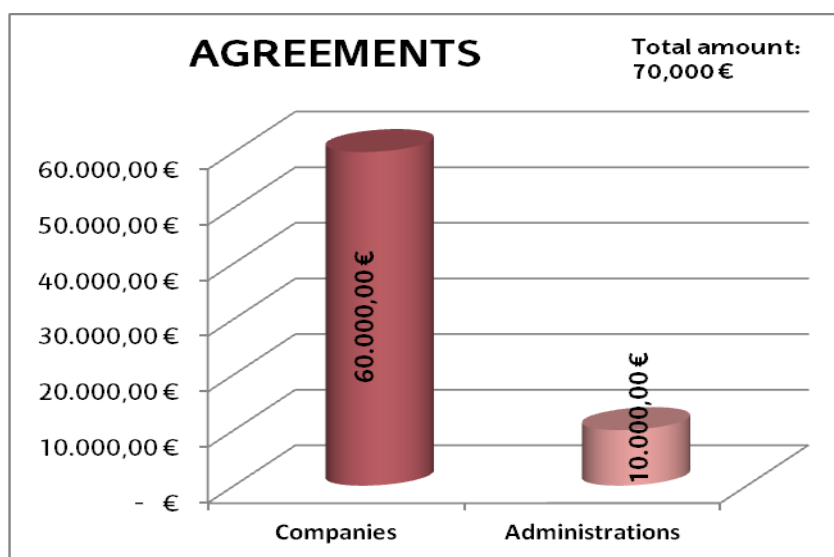
By type of **projects in competitive calls**, almost 91% of the funding source comes from public Tenders of which 63% are from regional administrations.



Regarding the **contracts**, most of them have been entered into with businesses and other entities such as institutions, foundations or associations.



Finally, 85% of the **agreements** signed by the Centre's Research Groups have been with companies.

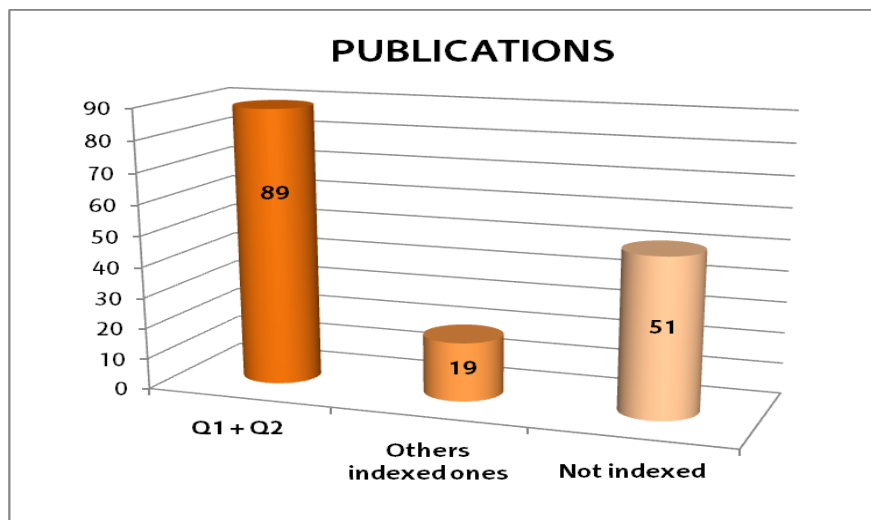


PUBLICATIONS AND PAPERS



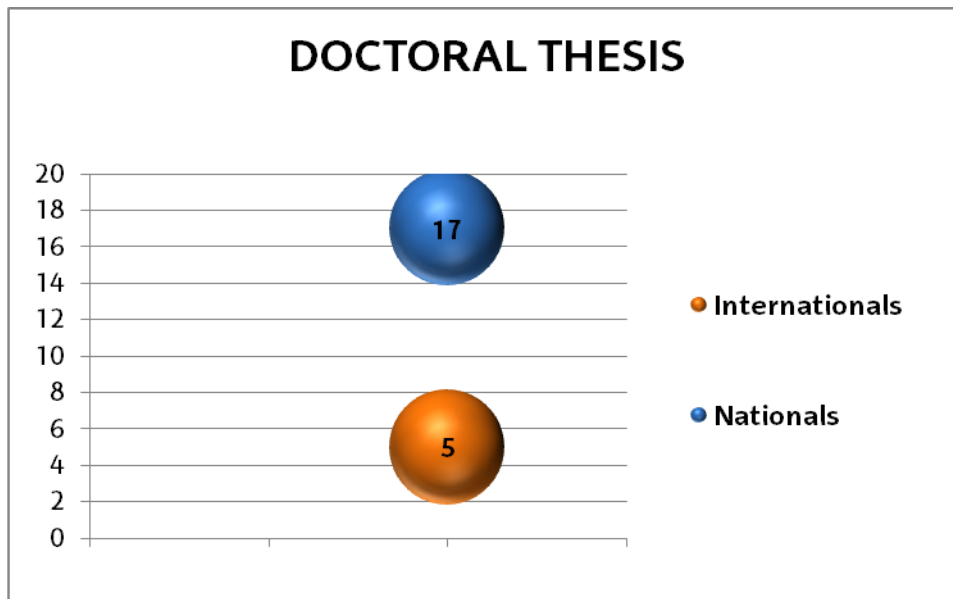
Publications in books or journals are one of the most important for indicators assessing research excellence. During this year, the groups have participated in 159 publications, of which almost 65% were indexed journals. Not indexed publications refer mostly to books or book chapters.

PUBLICATIONS	NUMBER
Q1	62
Q2	27
Others indexed ones	19
Not indexed	51
TOTAL	159



DEFENDED DOCTORAL THESIS

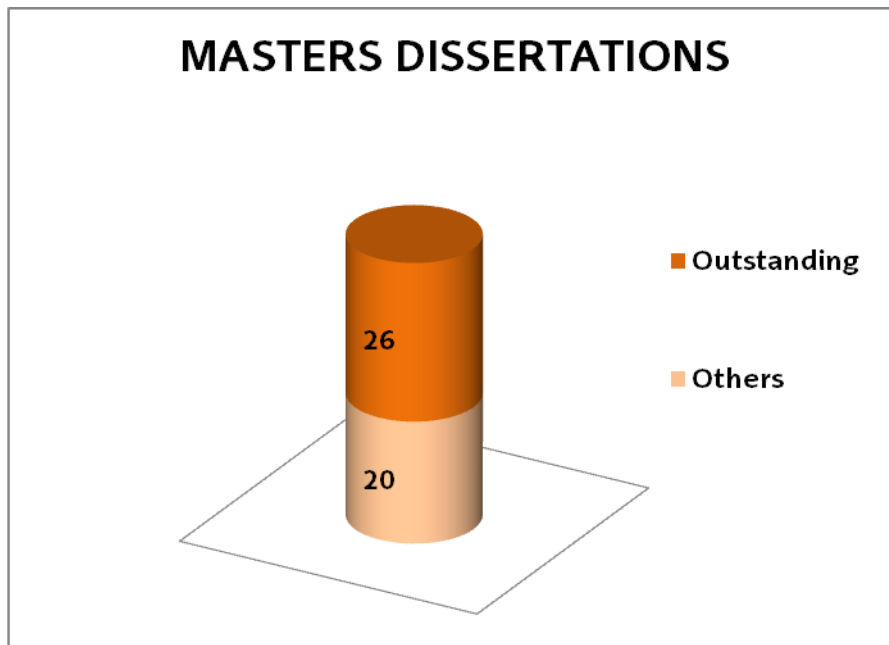
In 2014, Lascaray Groups submitted 22 Doctoral thesis; 14 of those have obtained the best qualifications.



MASTERS DISSERTATIONS



During the 2013-2014 academic year, 46 Master's Degree Final Works were completed, led by investigators at the Centre, and 26 of them were rated Outstanding. Two projects have been awarded the prize for the best Master thesis.



PARTNERSHIPS AND NETWORKS

One of the best ways to contribute to the research development is through organizational structures formed by several research agents. Lascaray Ikerunea research centre research groups are involved in a total of 95 structures, and almost half of them are in international forums.

Collaborations are on the increase and in 2014, 8 new structures (5 international and 3 national) have been created.



NETWORKS		PARTNERSHIPS	
NATIONALS	INTERNATIONALS	NATIONALS	INTERNATIONALS
14	18	37	26

As for the type of collaborations throughout the Centre, there are a total of 32 networks providing access to global research networks.

PATENTS



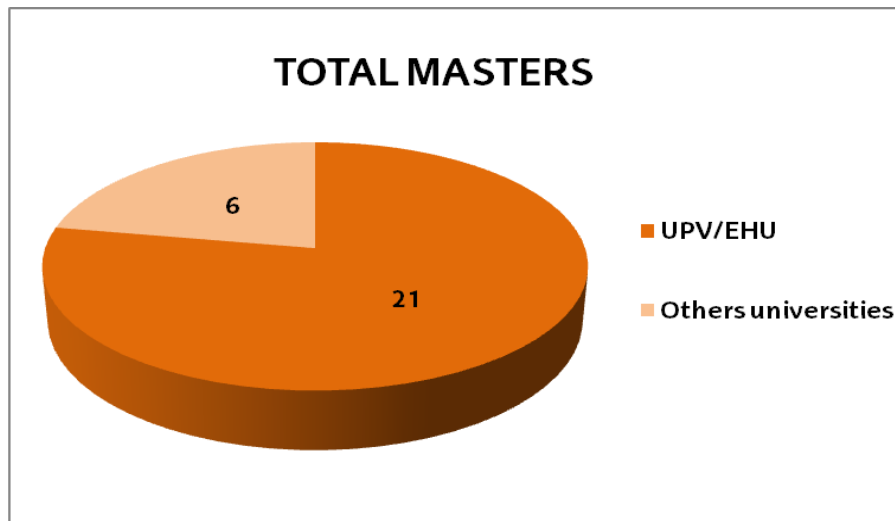
Research Groups have 23 patents in force, 14 of them are granted in Spain, and 3 of them have international patents.

GROUP	NUMBER OF PATENTS	STATUS AND SCOPE
BIOMICS	5	4 granted in Spain 1 internationally granted
Pharmacokinetics, Nanotechnology and Gene Therapy	2	1 granted in Spain and being processed internationally 1 granted in Spain
Molecular Microbiology and Genomics	5	2 internationally licensed 3 granted in Spain
NanoBioCel	9	5 granted in Spain 1 requested in Spain 3 requested in Europe
Nutrition and Obesity	2	1 internationally licensed 1 granted in Spain

MASTERS DEGREE ORGANISATION



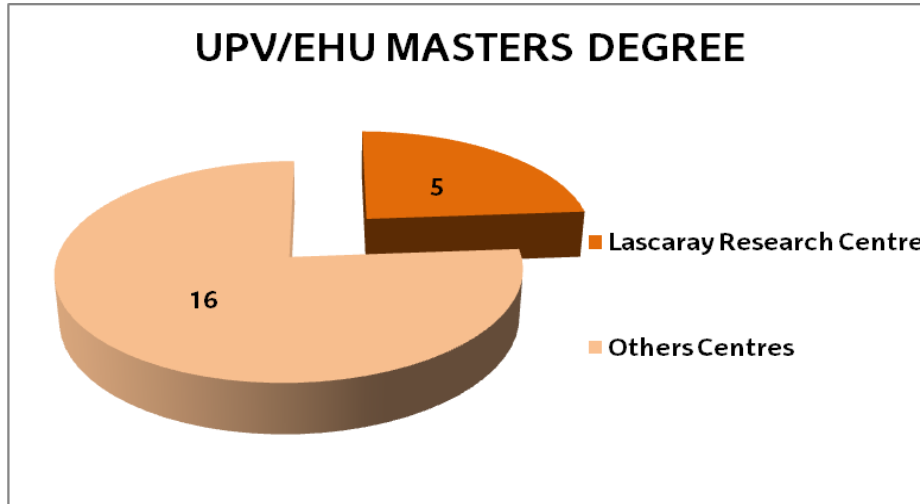
During the last academic year, groups are participating in 27 Masters degrees, of which 78% are official Masters of the UPV/EHU.



Each of the Masters Programmes has a workload of 60 ECTS credits, and Centre's members teach a total of 428 students. It is also important to note that four investigators from the Groups of the Centre run these masters programmes.

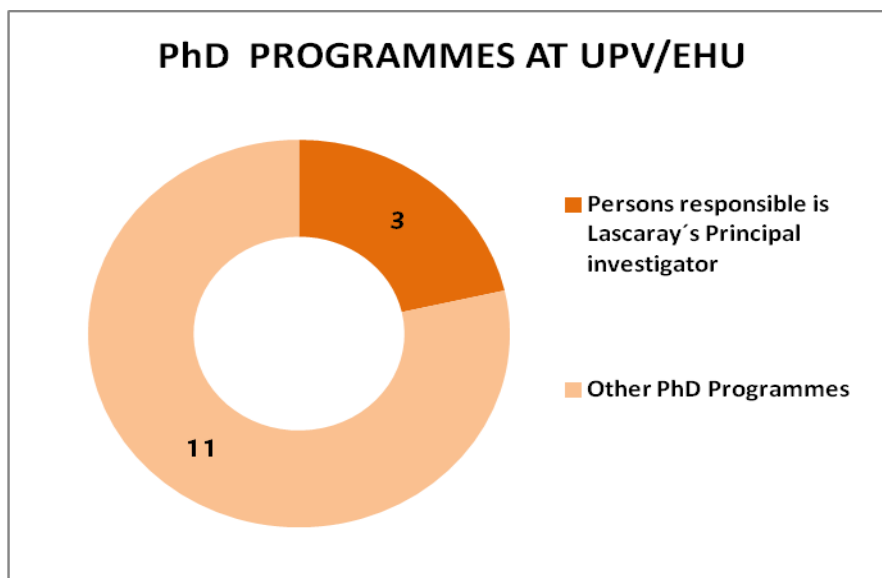
From the Masters offered at the UPV/EHU for Centre Groups, almost 30% are located in

Lascaray.



Apart from these official Masters at the University of the Basque Country, the Centre researchers take part in 6 Masters outside the University of the Basque Country (UPV/EHU).

As for Doctorate courses, the Groups take part in 14 programs and 3 of those are managed by Lascaray Top Researchers. Besides, 12 Centre researchers are members of Academic Commissions.

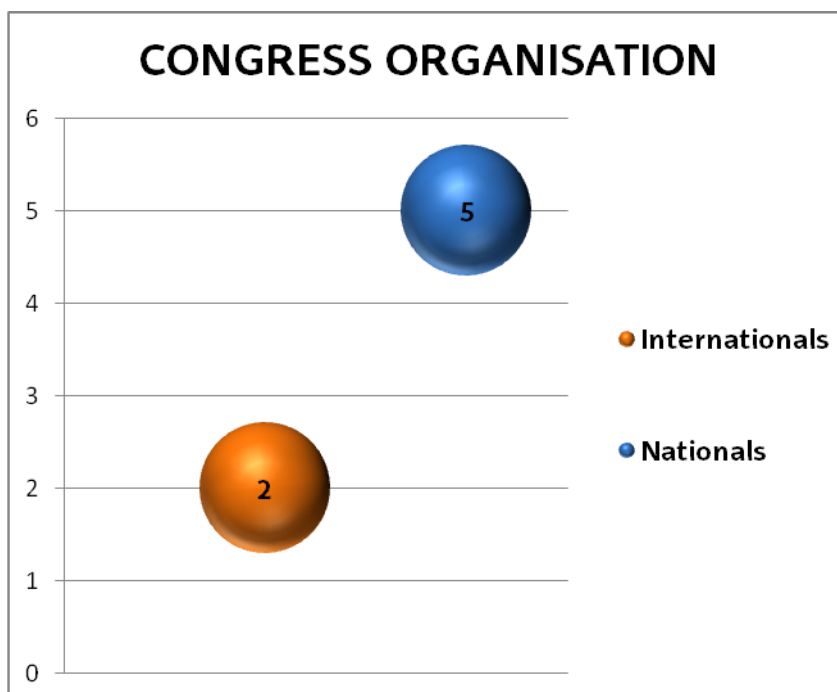


All information on Masters and PhD degrees at the UPV/EHU is available at:
<http://www.ehu.eus/es/web/mde>



CONGRESS ORGANISATION

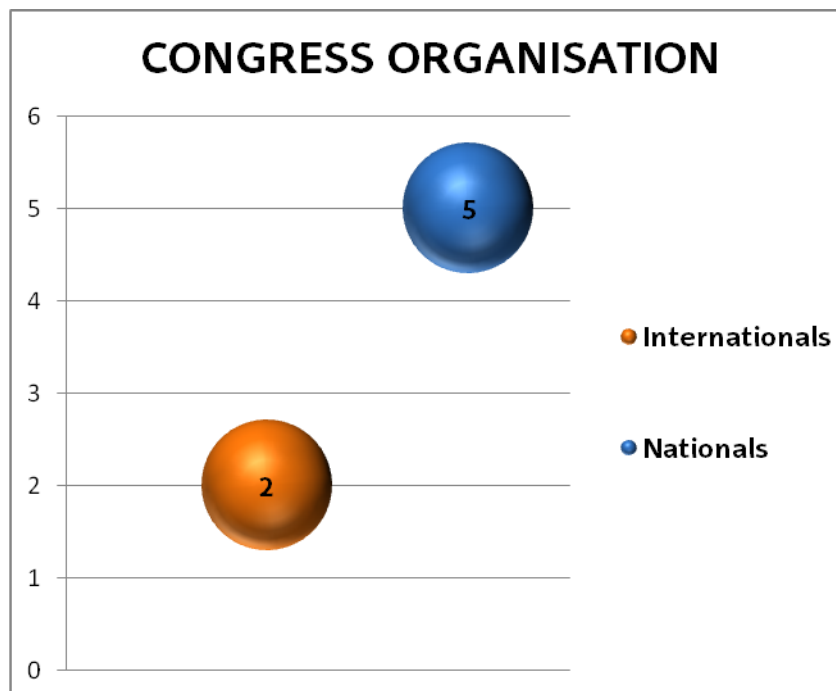
In 2014 the Research Groups of this Centre have organised 7 Congresses, and 2 of those have been international congresses.



PAPERS AND PRESENTATIONS



Research Groups have contributed with numerous presentations in poster, oral and presentations formats. In total, its members have participated in 136 presentations.



PARTICIPATION IN COLLABORATIVE QUALITY CONTROL EXERCISES

One group participated during 2014 in quality control collaborative exercises:

GROUP	TYPE OF ACTIVITY	PARTICIPATING ORGANIZATIONS
BIOMICs	Intercomparison exercise "Study of DNA polymorphism in blood stains and other biological samples: Modules: Basic and advanced-level kinship, basic and advanced-level forensics. 27th October 2014	Spanish and Portuguese speaking Group from the International Society for Forensic Genetics (GHEP-ISF)
BIOMICs	Bobino2013 Comparison Test (TCB2013) 23 April 2014	Charité-Universitätsmedizin Berlin



AWARDS

The Research Groups of the Lascaray Ikerunea Centre have been awarded the following prizes this year:

GROUP	AWARD	INSTITUTE/ISSUING BODY
Pharmacokinetics, Nanotechnology and Gene Therapy	Álava Hospital research award 2014 for project "Challenges in the pharmacotherapeutic management of patients admitted with Parkinson's disease".	Committee of enquiry. Álava University Hospital (HUA)
NanoBioCel	Award to the best article 2013 in the European Journal of Pharmaceutics and Biopharmaceutics magazine: "A preliminary approach to the repair of myocardial infarction using adipose tissue-derived stem cells encapsulated in magnetic resonance-labelled alginate micropheres in a porcine model".	9th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology. 31 march-3 april 2014. Lisboa, Portugal
Nutrition and Obesity	1 <i>acesit</i> NAOS Strategy to promote healthy eating habits	Spanish Agency for

	in schools.	Consumption, Health and Nutrition. Ministry of Health, Equality and Social Policies
Nutrition and Obesity	Gosasun Mark for promoting healthy eating habits, physical activity and/or emotional health.	Basque Innovation Agency, INNOBASQUE
Parasitologia and Immunoalergia	<p>Best abstract presentation prize. "Is the sensitization to Alternaria alternate manganese-dependent superoxide dismutase a risk factor for ABPA?"</p> <p>Poster Sesión III-Air pollution and moulds still as risk factors.</p>	EACCI Congress 2014 Award (Copenhagen, Denmark)

LASCARAY CENTRE'S USERS



RESEARCH GROUPS



BIOMICS

<http://www.biomics.es/>

Group Members:

- PI: Marian M. de Pancorbo. Professor of Cell Biology.
marian.mdepancorbo@ehu.es; 945014528
- Esther M. Rebato Ochoa. Professor of Biological Sciences
esther.rebato@ehu.es
- Juan José Zarranz Imirizaldu. Professor of Neurology.
juanjose.zarranzimirizaldu@osakidetza.net
- Carmelo Aguirre Gómez. Tenured Lecturer of Pharmacology.
carmelo.aguirregomez@osakidetza.net
- Ana Maria Rocandio Pablo. Tenured Lecturer of Nutrition and Food Science.
anamaria.rocandio@ehu.es
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- José Ángel Peña García. Tenured Lecturer of Animal Biology. joseangel.pena@ehu.eus
- Jaime Algorta Pineda. PhD in Medicine. jaime.algorta@ehu.eus
- Marta Arroyo Izaga. PhD in Pharmacy. marta.arroyo@ehu.eus
- Naiara Garcia Bediaga. PhD in Nutrition. Postdoctoral fellow. naiarabediaga@gmail.com
- Laura Valverde Potes. PhD in Biochemistry. Postdoctoral fellow. lauravalverdepotes@gmail.com
- Andrés López Oceja. Graduate in Environmental Science. PhD student. andreslopezocaja@gmail.com
- Leire Palencia Madrid. Graduate in Environmental Science. PhD student. leirepalencia@gmail.com
- David Gamarra Fernández. Graduate in Environmental Science. PhD student davidgamarra@gmail.com
- Maria Eugenia Ibáñez Pérez-Zamacona. Graduate in Environmental Science. PhD student.
- Ibone Espinosa Carcabilla. Graduate in Environmental Science. PhD student

Lines of Research

- Genetic variability: Structure of current human populations and human and animal archaeological populations. Applications to population genetics, forensic genetics and evolution.
- Biomedicine: Genomics, epigenomics and miRNoma in neurodegenerative diseases, cancer and pharmacogenetics.
- Model development: Expansion in culture and differentiation of adult human mesenchymal stem cells.

- Lifestyle and its influence on health and disease.
- Microtechnologies: Development of microfluidics and nanosensors devices to use in different areas of sciences, especially in biomedicine and forensic sciences.

Molecular Epidemiology of Campylobacter and Arcobacter

<http://www.ehu.es/en/web/inmunologia-microbiologia-parasitologia/home>

Group Members:

- PI: Aurora Fernández-Astorga. Professor of Microbiology. aurora.fernandez@ehu.es; 945014520
- Rodrigo Alonso Monsalve. Tenured Lecturer of Microbiology. rodrigo.alonso@ehu.es
- Karmele Colom Aristondo. Tenured Lecturer of Microbiology. karmele.colom@ehu.es
- Águeda Fernandez de Aranguiz Guridi. Tenured Lecturer of Microbiology. agueda.fernandezdearanguiz@ehu.es
- Cecilia Girbau Iturralde. Contract Investigator. PhD in Biology. cecilia.girbau@ehu.es
- Irati Martínez Malax-Etxebarria. Temporary staff. PhD in Biology. irati.martinez@ehu.es
- Héctor Velasco Arregui. Predoctoral fellow. hvelasco001@gmail.com

Lines of Research

- Molecular epidemiology of Campylobacter.
- Genomotyping of *C. jejuni* (DNA microarrays).

- Molecular Epidemiology of Arcobacter.
- Typing of clinical strains (Enterococcus).

Cardiac Electrophysiology

<http://www.ehu.es/es/web/enpresa/eskaintza-orokorra?type=group&cod=00235&option=0>

Group Members:

- PI: Oscar Casis Sáenz. Tenured Lecturer of Physiology.
oscar.casis@ehu.es; 945014507
- Ernesto Casis Sáenz. Tenured Lecturer of Nursing.
ernesto.casissaenz@osakidetza.net
- Mónica Gallego Muñoz. Tenured Lecturer of Physiology.
monica.gallego@ehu.es
- Hiart Alonso Basáñez. Contract Predoctoral Fellow. Graduate in Biochemistry. hiartxu88@gmail.com
- Ainhoa Rodríguez de Yurre Guirao. Predoctoral fellow of Brazil Government

Lines of Research

- Molecular mechanisms of neurohormonal regulation of cardiac potassium channels, both in physiological and pathological conditions.
- Electrophysiological properties of the Zebrafish embryo heart at different stages of development.
- Molecular identification and functional characterisation of mutations in genes encoding ion channels associated with long QT syndrome and Brugada syndrome.

Food Processing, Quality and Safety

<http://www.ehu.es/es/web/procayseal/home>

Group Members:

- PI: Maria Dolores Guillén Lorén. Professor of Food Technology. mariadolores.guillen@ehu.es; 945013081
- Encarnación Goicoechea Osés. Associate Lecturer. PhD. encarnacion.goicoechea@ehu.es
- María José Manzanos Arnaiz. Associate Lecturer PhD. mariajose.manzanos@ehu.es
- Ainhoa Ruiz Aracama. Associate Lecturer. PhD. ainhoa.ruiz@ehu.es
- María Luisa Ibargoitia Isasi-Isasmendi. Contract investigator staff. PhD. marialuisa.ibargoitia@ehu.es
- Patricia Sopelana Garay. Investigator PhD Staff. patricia.sopelana@ehu.es
- Andrea Martínez Yusta. Predoctoral Fellow. andrea.martinez@ehu.es
- Barbara Nieva Echevarría. Predoctoral Fellow. barbara.nieva@ehu.es
- Natalia Prieto Vidal. Predoctoral Fellow. natalia.prieto@ehu.es
- Ana Maria San Martín Rubio. Predoctoral fellow, with a degree in Nutrition and Dietetics and Bachelor in Science and Food Technology. anamaria.sanmartin@ehu.es

Lines of Research

- Aromas of smoke, composition, preparation, and safety features.
- Composition and antioxidant activity of essential oils, extracts of herbs, spices and flavorings.
- Smoked foods with smoke and smoke flavorings.
- Study of the aroma of food through its volatile components.
- Polycyclic Aromatic Hydrocarbons (PAHs) in food.
- Characterisation of fats, oils and food lipids by unconventional techniques.
- Processes of degradation of fats, oils and food lipids.
- Oxygen-containing Alpha, beta-unsaturated genotoxic and cytotoxic aldehydes in foods.
- Fried foods and Maillard reaction. Influence of processing conditions, nature of oil and composition of the food in safety and quality of fried foods.
- Evolution of dietary lipids and antioxidant compounds in processing and digestion.

Pharmacokinetics, Nanotechnology and Gene Therapy

<http://www.ehu.es/en/web/pharmananogene/hasiera>

Group Members:

- PI: Alicia Rodríguez Gascón. Tenured Lecturer of Pharmacy and Pharmaceutical Technology. alicia.rodriguez@ehu.es; 945013094
- Begoña Calvo Hernáez. Professor of Pharmacy and Pharmaceutical Technology. b.calvo@ehu.es
- Ana del Pozo Rodríguez. Associate Lecturer. PhD in Pharmacy. ana.delpozo@ehu.es

- Arantxazu Isla Ruiz. Associate Lecturer PhD in Pharmacy. arantxa.isla@ehu.es
- María Ángeles Solinís Aspiazu. Associate Lecturer PhD in Pharmacy. marian.solinis@ehu.es
- Andrés Canut Blasco. PhD in Medicine and Surgery University Hospital of Alava. andres.canutoblasco@osakidetza.net
- Diego Delgado Sanvicente. PhD in Pharmacy. UCAINVEST
- Josune Torrecilla Alzola. Contract Investigator. Graduate in Biology. josune.torrecilla@ehu.es
- Paola Apaolaza Gallegos. Predoctoral Fellow. Graduate in Pharmacy. paolastephanie.apaolaza@ehu.es
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Lines of Research

- Development of non-viral vectors for gene therapy.

- Development of nanoparticle systems for drug delivery.
- Pharmacokinetic/pharmacodynamic analysis in antibiotic therapy.
- Pharmacotherapeutic evaluation of drugs. Pharmaceutical care.
- Legal regulation of biotech drugs.

Fluor-Phosphate Chemistry

<http://www.ehu.es/es/web/pfq/hasiera>

Group Members:

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Lines of Research

- Synthetic organic chemistry. Solid Phase Synthesis, Combinatorial Chemistry, Catalysis in Organic Synthesis.
- Organophosphorus compounds, amino phosphonates. Fluorinated compounds.
- Heterocyclic compounds, cycloaddition reactions, azadienes, azirines, aziridines, amino acids.
- Design and synthesis of enzyme inhibitors. Development of new active substances for drugs. Radiopharmaceuticals.

Thematic Mapping and GIS

<http://www.ehu.eus/en/web/sgiker/kartografi-eta-informazio-sistemak-zerbitzua-aurkezpena>

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Lines of Research

- Thematic Mapping and GIS.
- The Iberian Hercynian foldbelt (West Spain).
- Cartography, geomorphology and geodynamic evolution of the Basque-Cantabrian basin.

Lactiker - Quality and Safety of Foods of Animal Origin

<http://www.ehu.es/en/web/lactiker/home>

Group Members:

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- Izaskun Valdivielso Zubiria. Contract Fellow and Investigator.

Lines of Research

- Quality and traceability of traditional foods: contribution to the sustainability of mountain grazing of dairy sheep.
- Evaluation and production of high-quality ruminant meat for human consumption.
- Evaluation of the use of local sheep-food farming products. Improving the quality of milk and cheese.
- Influence of dairy intake on the risk of cardiovascular disease.

- Preparation of technological and sensory interest compounds for cheese and cheese derivatives. Biochemical and technological studies for new product development and innovation.
- Cheese safety: characterisation of defects and the presence of biogenic amines in ripened cheese.
- Optimisation and improvement of sensory analysis methods to evaluate cheese and meat quality.

METABOLOMIPs

<http://www.ehu.es/en/web/metabolomip/hasiera>

Group Members:

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Lines of Research

- Molecular recognition techniques based on development of new biomimetic polymeric materials.
- Metabolomic studies for biomarker characterization.
- Forensic Chemical Analysis.
- Wine Metabolomics.

Molecular Microbiology and Genomics

<http://www.ehu.eus/en/web/inmunologia-microbiologia-parasitologia/home>

Group Members:

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Lines of Research

- Genomic study of strains and serotypes of Salmonella enterica and classification test development.
- Mechanisms involved in the pathogenesis and diagnosis of infections caused by the Aspergillus genus and its main pathogenic species, A. fumigates.
- Omics technologies applied to the study of pathogenicity of Candida albicans and Scedosporium prolificans.
- Development of new epidemiological tools based on the use of genetic information in data bases.

NanoBioCel

<http://www.ehu.es/en/web/nanobiocel/home>

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Lines of Research

- Microencapsulation of live cells.
- Micro and nanoparticles as delivery systems for peptide and protein vaccines.
- Non-viral vectors for gene therapy.

- Development of modified release formulations.
- Biopharmaceutical and pharmacokinetic evaluation of modified release formulations and new therapeutic systems.
- Nanofomulaciones for pulmonary administration.

Cellular and Molecular Neuropharmacology

<http://www.ehu.es/es/web/enpresa/eskaintza-orokorra?type=group&cod=00246&option=0>

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Lines of Research

- Molecular and cellular basis of ligand-directed signaling and heteromerisation of receptors coupled to heterotrimeric α proteins:

- Activity based on the determination of endophenotypes associated with mental and neurodegenerative diseases in postmortem human brain.
- Activity based on the study of interaction of ligands with receptors coupled to G proteins and in the developments of new allosteric drugs.

Nutrition and Obesity

<http://www.nutricionyobesidad.com/>

Group Members:

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Lines of Research

- Functional ingredients and obesity.
- Mediterranean Diet and Health.
- Childhood Obesity.

- Epigenetics: markers of obesity.
- Assessment of dietary habits and nutritional status of population groups.
- Assessment of gluten in foods. Accredited laboratory.

Built Heritage Research Group (GPAC)

<http://www.ehu.es/gpac/portal/index.php/en.html>

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Lines of Research

- Identification of factors amenable to heritage protection: Development of a methodology for census and inventory to establish criteria for interpretation and common assessment.
- Tools and strategies for assessment and heritage significance: Research of chronological indicators and development of territorial analysis systems and people settlements with diachronic and thematic criteria.
- Heritage intervention and conservation: Restoration as a cognitive process and

respect for the integral values of built heritage.

- Dissemination and socialization of architectural heritage: Safeguarding and exhibition of architectural and urban documentary collections and introduction into suitable museum circuits. Editing specialized scientific reference publications and thematic portals online.
- Economic and socio-cultural impact: Political, cultural identity and diversity.
- Specialised postgraduate training: "Master degree in restoration and enhancement of heritage".

Parasitology and Immunoallergy

<http://www.ehu.es/en/web/inmunologia-microbiologia-parasitologia/home>

Group Members:

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Lines of Research

- *Toxocara canis* and *Anisakis simplex*. Characterisation and study of larval allergens. Keywords: toxocarosis, *Toxocara canis*, allergy, nematodes, parasite immunology, zoonoses. Study the relevance of *Ascaris* allergens in hives of unknown origin.
- Food allergens: allergens study in food components. qPCR application for early detection and quantification of allergens of phytoparasitic origin in food.
- Detection of phytopathogenic allergen species in parasitised citrus fruit by fungal allergens. Experimental models of infection and transfer of methodologies to fruit consumption.
- Production of monoclonal antibodies against canine IgE and against plant and fungal origin allergens.

Population Systematics, Biogeography and Dynamics

<http://www.systbiogen.com/>

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Lines of Research

- Phylogeography and Martes genus landscape genetics (Martes martes; Martes zibellina and Martes foina) (Order Carnivora, Mustelidae Family).
- Structure and genetic variability of fragmented populations of threatened amphibians.
- Phylogeny, phylogeography and population structure of continental molluscs.
- Systematics of Opiliones.
- Monitoring the impact of the introduction of invasive alien species on native populations.
- Studies of population dynamics of wild carnivores by non-invasive molecular techniques.
- Ecological connectivity and wildlife predictive distribution studies.
- Application of massive sequencing techniques in systematics, biogeography and population dynamics studies.

SGIKER

General Research Services (SGIker) of the Campus of Álava are located in the Lascaray Research Centre where important scientific equipment are to be found and which provide service to the scientific, technological and industrial community.



DNA Bank

http://www.ehu.es/SGIker/es/adn/servicios_ofertados.php

Scientific Advisor: Marian M. de Pancorbo (marian.mdepancorbo@ehu.es)

SGIker Technician: Maite Alvarez Alvarez (maite.alvarez@ehu.es)

General information

The DNA Bank Unit of the Genomics and Proteomics General Service of the UPV/EHU is a support for basic and applied research in different areas of knowledge in Biomedical, Biological, Environmental and Food Sciences amongst others, and to assist in ensuring service in Clinical Health fields.

The DNA Bank Unit offers a full set of services aimed providing investigators with sample collections of nucleic acids (mainly DNA) from various sources.

Sensory Analysis

<http://www.ehu.es/SGIker/es/lasehu/presentacion.php>

Principal investigator: Francisco José Pérez Elortondo
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General information

LASEHU is the Sensory Analysis Laboratory of the Faculty of Pharmacy at the UPV / EHU (Vitoria-Gasteiz). It is in the area of Nutrition and Food Science, which belongs to the Department of Pharmacy and Food Science. With an experience of 10 years, the team of Sensory Laboratory consists of three University Professors, one Assistant Doctor and 2 Researchers (Bachelor of Science and Food Technology), hired to carry out.

Central Analysis Service

<http://www.ehu.es/en/web/sgiker/arabako-analisirako-zerbitzu-zentrala-aurkezpena>

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General information

The General Analysis Service mitigates the generated analytical problems in such diverse fields as Health Sciences, Biochemistry, Environment, Food, Quality Control in numerous industries, and even other related fields such as archaeology, and the study and dating of works of art.

This service helps especially groups with little chance of obtaining financing for the purchase of equipment, and also allows consolidated groups direct their efforts to tasks that are not merely analytical. On the other hand, the provision of external services to companies and institutions is therefore improved, and even allows the recruitment of new resources.

Nuclear Magnetic Resonance

<http://www.ehu.es/en/web/sgiker/erresonantzia-magnetiko-nuklearra-emn-aurkezpena>

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General information

The MRI service organised in three units. The service's administrative headquarters and directorate are located at the Faculty of Chemistry (San Sebastián), which is associated with the Unites of the Faculty of Pharmacy (Vitoria) and the Faculty of Science and Technology (Leioa). This distribution aims further bring closer the department's services to direct users and facilitate their use.

The main features consist of the structural study of organic and organometallic molecules, biomolecules, materials, additives, traces... by the qualitative and quantitative determination of the components. Likewise, it is possible to approach the study of dynamic processes and structural changes with the temperature in these materials.

General information

Amongst its key objectives, the Mapping and Geographic Information Systems Service provides the university community and other groups in society (scientific, government, businesses and individuals) a territorial data bank and a large digital mapping support, both basic (topography, satellite imagery, orthophotomaps, etc..) and specific (thematic maps of geology, vegetation, soil, crop and land development, land use, urban planning, etc.).

P3 Biological Containment

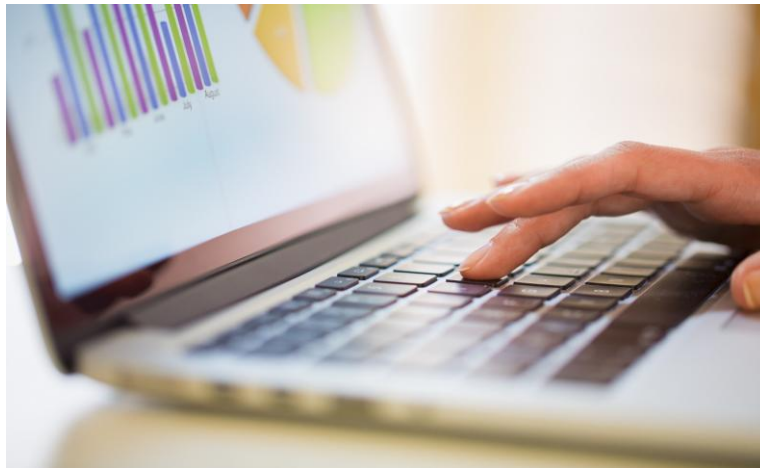
http://www.ehu.eus/en/web/sgiker/content/-/asset_publisher/ZcG4/content/info_laboratorionivel3?redirect=http%3A%2F%2Fwww.ehu.eus%2Fen%2Fweb%2Fsgiker%2Fhome%3Fp_p_id%3D101_INSTANCE_8W_Tj%26p_p_lifecycle%3D0%26p_p_state%3Dnormal%26p_p_mode%3Dview%26p_p_col_id%3Dcolumn-2%26p_p_col_count%3D3

Director: Marian M. de Pancorbo (marian.mdepancorbo@ehu.eus)

General information

Level-3 Biological Containment Laboratory, University of the Basque Country (UPV/EHU), has been installed at the Lascaray Ikergunea Research Centre. It occupies an area of 140 m² on the first floor of the building with an air conditioner facility on the building's outer layer and an effluent digester in the basement.

The complex includes a Technical Area with all mechanical fixtures such as air conditioners, exhaust filters, steam generators, digester, etc.; a Classified Zone where all the work is performed and therefore designed for the initial needs of the projects to be developed, in regard to amount of users, material flow, sterilisation areas, etc.; and interchange systems consisting of autoclaves, biological air-locks and material air-locks allowing the exit of biological materials and samples from the containment enclosure.



For further information about all SGiker as well as the annual service report please visit the SGiker (Research General Service) website of the UPV/EHUE on: <http://www.ehu.eus/es/web/sgiker/home/>

UFI

Research and Training Units (UFI) are conceived as an alliance of research structures of the UPV/EHU, based on common objectives. Their purpose is to increase the extent and quality of research and training activities by improving certain indicators linked to those goals.

Knowledge generation and training are necessarily greater than the sum of the production of the structures that compose it; this allows enhancing forecasting and visibility of both research and training activities.



Below, the UFIs participating in a group located in Lascaray are listed.

Multidisciplinary Training and Research Unit on Microbial Diseases for promoting healthy living and aging (UFIMEMPVES)

Coordinator: Guillermo Quindos Andrés (guillermo.quindos@ehu.es)

Research Management Officer: Elena Erice Elejoste (elena.erice@ehu.es)

Groups members of the Centre

- Molecular Microbiology and Genomics

Thematic area

The overall objective of this research consortium is to expand the existing knowledge on the pathogenesis of infections in humans and their relationships with different pathological processes.

The more specific targets within this goal are: invasive infections in critically ill people admitted to intensive care units, immunosuppressed patients or people with a natural process of immune senescence; those fungal or bacterial infections, both systemic and superficial infections, which are associated with biofilm formation on biomedical materials such as catheters and prostheses; oral, digestive and genital infections that affect the general population; and the association between microorganisms, precancerous lesions and neoplasms.

Eldunanotek: Development Unit for Therapeutic Devices: Nanotechnologies, Aging and Quality of Life

<http://www.ehu.eus/en/web/ufieldunanotek/definizioa-eta-helburuak>

Coordinator: Rosa María Hernández Martín (rosa.hernandez@ehu.eus)

Research Management Officer: María Martín Fernández (maria.martin@ehu.eus)

Groups members of the Centre

- BIOMICs
- NanoBioCel
- Nutrition and Obesity

Thematic area

Despite the many marketed drugs, there are diseases lacking available effective

treatment or whose treatment produces so many side effects that its long-term use is unviable, and those related to ageing are highlighted amongst these diseases.

The UFI's main purpose is to respond to society by contributing to the improvement of the quality of life of citizens, since the multidisciplinary team has proven research experience in this field of activity. Specifically, this health problem is approached from its first stage, the search for new therapeutic targets, continuing with its validation to the development of active substances with a suitable delivery system to achieve this target and modify the development of the disease.

All this falls within the translational biomedical research that the structures forming ELDUNANOTEK perform with their clinical associates.

Food Quality and Safety

<http://www.ehu.es/en/web/uficalidadyseguridadalimentaria/home>

Coordinator: Maria Dolores Guillén Lorén (mariadolores.guillen@ehu.es)

Research Management Officer: María Martín Fernández (maria.martin@ehu.es)

Groups members of the Centre

- Molecular Epidemiology of Campylobacter and Arcobacter
- Lactiker - Quality and Safety of Foods of Animal Origin
- Parasitology and Immunoallergy
- Food Processing, Quality and Safety

Thematic area

Food research is essential not only to offer society the most attractive and safe food with better functional, organoleptic and nutritional properties, but also to further

improve knowledge of the composition and properties of food, and on changes that various types of processing and storage can have on food. This knowledge is essential to advance safely on development and innovation.

The four research structures that form this UFI enhance multidisciplinary collaboration in the field of Quality and Food Safety, specifically the field of quality and food safety throughout the process of transforming them from raw material to the final product and its consumption, from a physicochemical biochemical, microbiological, nutritional, technological and sensory perspective.

Global Change and Heritage

<http://www.ehu.eus/en/web/ufiglobalchangeandheritage/home>

Coordinator: Juan Manuel Madariaga Mota (juanmanuel.madariaga@ehu.eus)

Research Management Officer: Isabel Urrutia Samper (isabel.urrutia@ehu.eus)

Groups members of the Centre

- Built Heritage Research Group

Thematic area

This UFI aims to further improve the scientific disciplines to provide a holistic view of the problems associated with climate change, the negative effects that compromise the cultural and natural “heritage” of humanity and sustainable development capable of correcting them. This aggregation between structures in quite distinct fields of action is based on the link between knowledge and “sectoral know how” of the Groups in the integrating and dynamic context of Global Change and Heritage.

The GPAC structure has understood this context as built cultural heritage, GHI as a nature, water and land Heritage, and IBEA as the characterisation and diagnosis of environmental impacts on both worlds. The starting point of this synergy is the “Heritage value chain as a whole”, which fits the CTS vision: Science-Technology-Society, and the perspective of sustainability.

Organic Chemistry, Synthesis and Catalysis (QOSYC)

<http://www.ehu.eus/en/web/ufiqosyc/home>

Coordinator: Claudio Palomo Nicolau (claudio.palomo@ehu.eus)

Research Management Officer: Nerea Casas Maeso (nerea.casas@ehu.eus)

Groups members of the Centre

- Fluor-Phosphate Chemistry

Thematic area

Development of new synthetic methods and chemical catalysis, and their application to the preparation of active substances with biological and industrial interest.

Groups that make up this UFI belong organizationally to the Organic Chemistry departments I and II of the UPV/EHU, and have extensive research experience in the area of Organic Chemistry, where they work on highly topical themes and therefore very competitive, such as: the study of chemical reactions by computational methods, the design of reagents and synthetic methodology consistent with the concept of atom economy, asymmetric catalysis including organocatalysis, product development for pharmaceuticals and biomedical applications with special emphasis on cancer and neurodegenerative diseases drugs.

Neurochemistry, Neuropsychopharmacology and Psychiatry

<http://www.ehu.eus/en/web/ufineuropsi/home>

Coordinator: Joan Sallés Alvira (joan.salles@ehu.eus)

Research Management Officer: Javier López de Lacalle Beltrán de Heredia
(javier.lopezdelacalle@ehu.eus)

Groups members of the Centre

- METABOLOMIPs
- Cellular and Molecular Neuropharmacology

Thematic area

Study and interdisciplinary approach of mental illness, from their origins, manifestations, evolution to their clinical expression, treatment and evaluation of responses thereto.

This UFI includes scientific groups working on biological bases (genetic, molecular and cellular biology), clinical (diagnostic and prognostic evaluation, neuropsychology, therapy), pharmacological (design and evaluation of new targets and treatments, technology for these assessments) and epidemiological (risk factors, response to clinical trials) of major mental illness (depression, schizophrenia and bipolar disorder).

The group includes investigators in neurobiology and basic medicine, and basic-applied and clinical medicine, establishing synergies amongst themselves and working with what has become known as translational science goals.



INIZIA BUSINESS INCUBATOR



INIZIA business incubator was launched on 21st February 2014 with the aim to generate and consolidate new business initiatives through the provision of infrastructures, common services, basic equipment and support services.

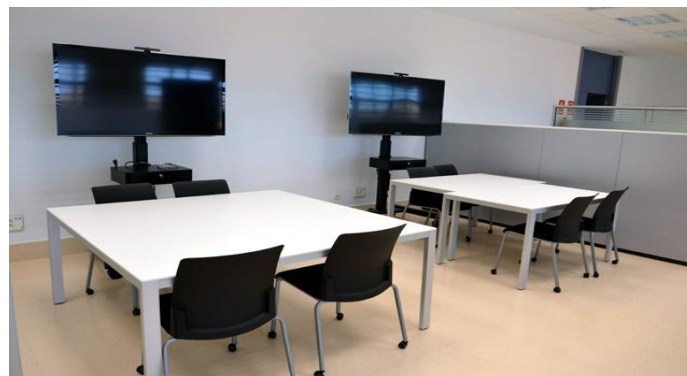
All companies located in the business incubator are distinguished by their strong technological character due to the fact that they are linked to University of the Basque Country (UPV/EHU) research Groups and are projects to develop and consolidate in Álava.



3 companies have made use of the offices of the business incubator in 2014:

PROJECT AND PROMOTERS	DESCRIPTION
<p>BAIGENE http://baigene.com/</p> <ul style="list-style-type: none"> - Jose Maria Aznar Oviedo - David Celorrio Herrera 	<ul style="list-style-type: none"> - I+D+i business initiative based on Sports Genetics of New individualisation and improvement of: 1) sports performance, 2) nutrition and, 4) healthy habits. <p>BAIGENE S.L develops:</p>

<p>- Adrian Odriozola Martínez</p>	<p>a) Specific genetic kits for each sport (running, cycling, swimming) and a specific genetic kit for nutrition professionals.</p> <p>b) Specialised Training in Genetics applied specifically to athletes and professionals at professionals related to the world of health and sport.</p> <p>c) Application for IT devices to manage your own genetic kit.</p>
<p>i+Med, S. Coop Pequeña</p> <p>- Raúl Pérez González</p> <p>- Iñaki López Puente</p>	<p>- Project for the manufacture of copolymeric-hydrogels for custom biomedical applications.</p> <p>- Development of a family of sodium hyaluronate (NaHa) solution based injectable products at different concentrations.</p> <p>- Innovation in polymeric gels incorporating controlled drug release to develop a new product.</p> <p>-</p>
<p>UN-DIET UNIDAD DE SALUD ALIMENTARIA GASTEIZ ELIKADURA OSASUNERO UNITATEA, S.L</p> <p>www.un-diet.es</p> <p>- Leila Pérez Venturino</p> <p>- Bittor Rodriguez Rivera</p>	<p>- Nutritional Health Care.</p> <p>- Education and training.</p> <p>- Scientific advice and assistance.</p>



All information and documentation of the business incubator is available on the Lascaray website: <http://www.ehu.eus/en/web/lascarayikergunea/enpresa-mintegia>

EUSKAMPUS

Community of Poles of Knowledge



UPV/EHU, Tecnalia and DIPC are the founding members of Euskampus Fundazioa, and the University of Bordeaux is their strategic European partner. Euskampus Fundazioa is responsible for designing, coordinating and implementing activities that strengthen and accelerate the process of modernisation of the University of the Basque Country, through the development of the Campus of International Excellence Project.

Euskampus Fundazioa is an entity with an extensive history, aiming to become a benchmark and leader of the Basque Science, Technology and Innovation System, being a key agent to the revitalisation of R&D&I, its internationalisation and with a clear vocation of social responsibility and integration with its territory.

Several Lascaray research groups participate in the co-creation teams of the Euskampus poles of knowledge responsible for defining the strategic stakes and the first series of collaboration activities in the fields of training, research and knowledge transfer to address the selected targets.

FOOD & HEALTH HABITS POLE

- Molecular Microbiology and Genomics
- Nutrition and Obesity
- Food Processing, Quality and Safety

NEUROSCIENCE POLE

- BIOMICS

The Euskampus home page gathers all the information of the International Excellence Campus Project: <http://euskampus.ehu.es/?lang=en>