

# **LASCARAY**

## **RESEARCH CENTRE**

### **SCIENTIFIC ACTIVITY REPORT**

**2018**



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## LASCARAY IKERGUNEA RESEARCH CENTRE

The Lascaray Research Centre is home to the utmost scientific excellence with spaces that are used by 13 research groups, by the general research services (SGIker) of the Álava Campus and by the INIZIA business incubator.



Apart from research means, the centre also has spaces for training, administration and a multimedia laboratory. The groups and SGIker, at Lascaray, are laboratories fitted with state-of-the-art scientific equipment. Besides, the centre offers common research spaces accessible for all groups and services located in the building.

The official website of the building [www.ehu.eus/lascarayikergunea](http://www.ehu.eus/lascarayikergunea) offers detailed information about the activities and groups.

# LASCARAY IN NUMBERS

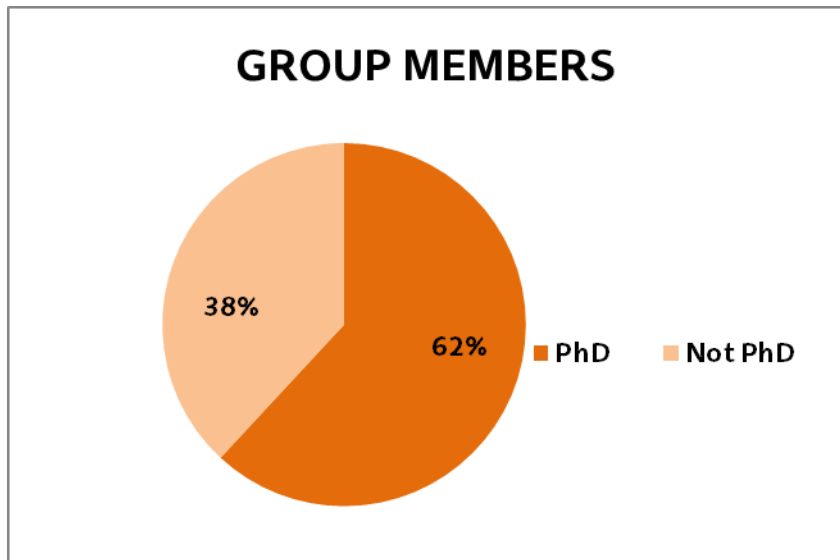


## GROUP MEMBERS

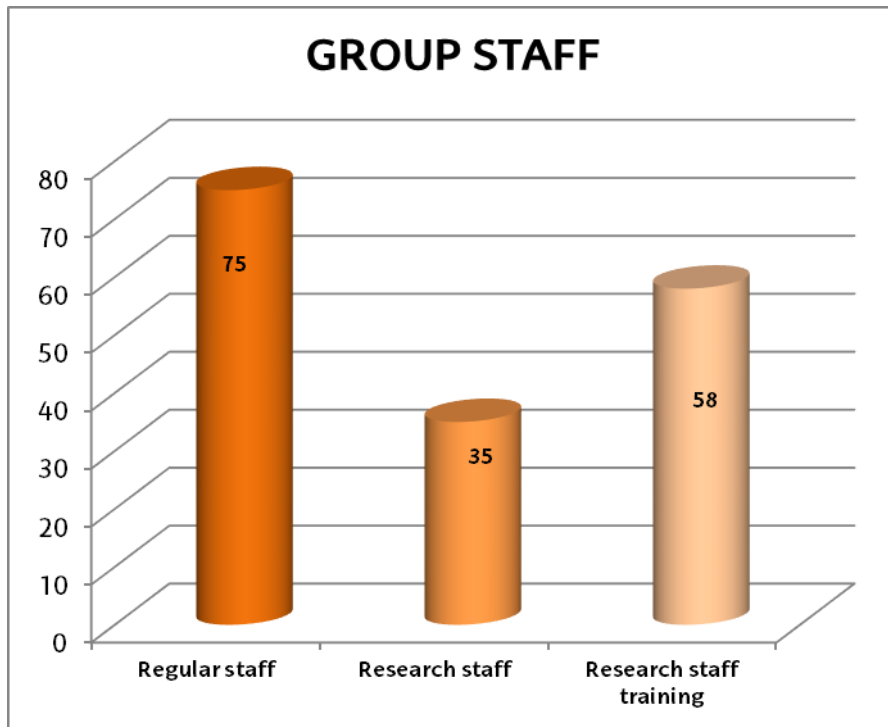


168 researches worked in the 13 research groups at the Lascaray building in 2018. The staff has considerably increased since the opening of the centre, and this consequently implies the subsequent increase of projects and activities to be carried out.

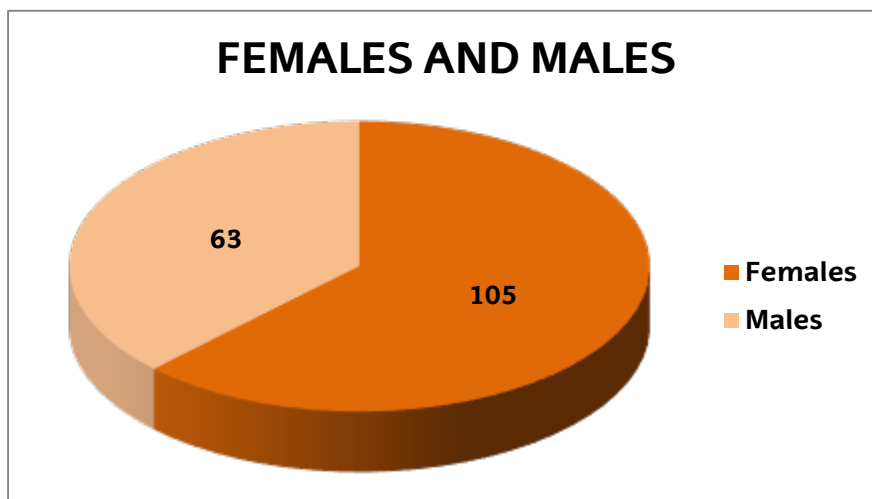
62% of research staff holds a PhD.



The staff of the groups has been classified in three sections: first of all, UPV/EHU regular staff (teaching and research staff on a contract at the UPV/EHU; secondly, research staff, both from the UPV/EHU and from other universities (Ramón y Cajal, Ikerbasque & Juan de la Cierva programmes...) and, lastly, training research staff (pre-doctoral and scholarship holders).



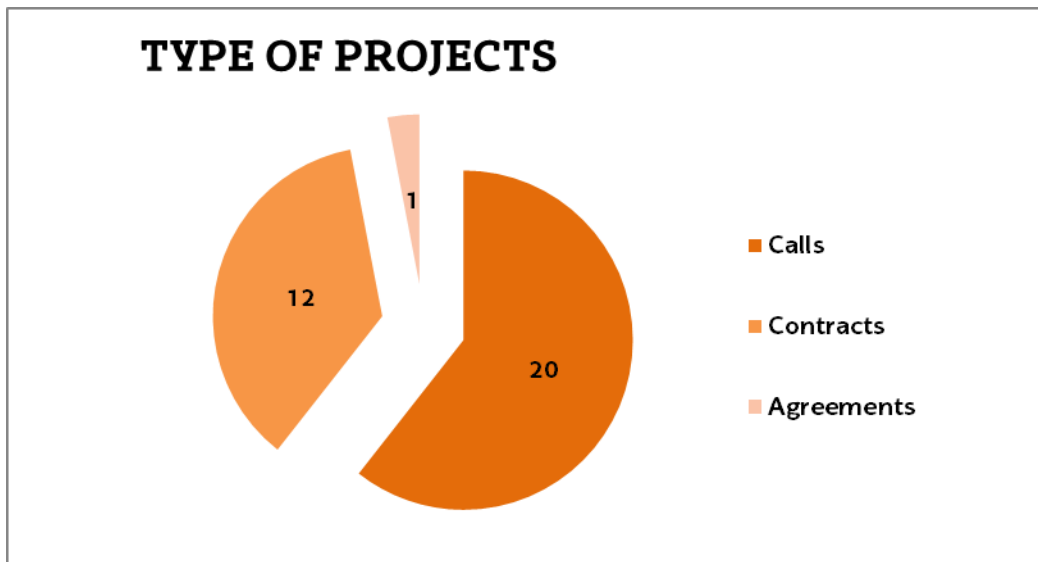
By sex, women represent over 60% of the centre research staff.



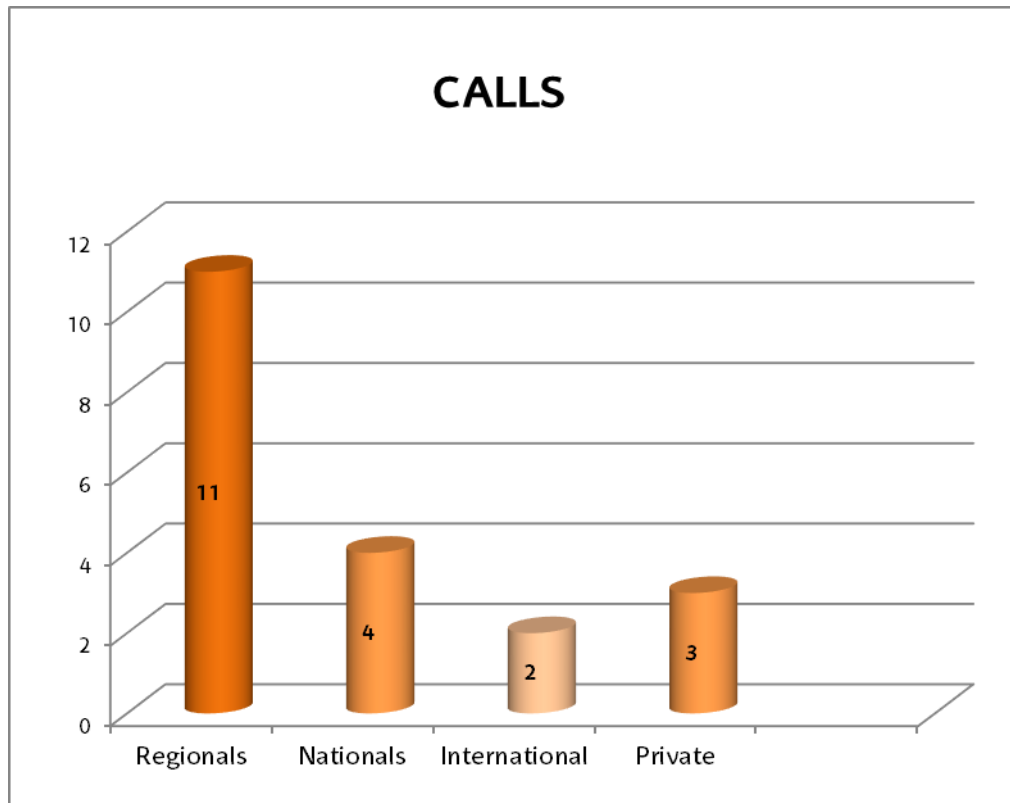
## PROJECTS

### Type of projects according to funding sources

In 2018, the groups worked on 33 new research projects, for which funding was obtained through different sources such as competitive concurrence Calls, Contracts and Agreements, however calls predominated.



Over half of projects initiated this year were linked to competitive concurrence calls, mostly at a regional level.



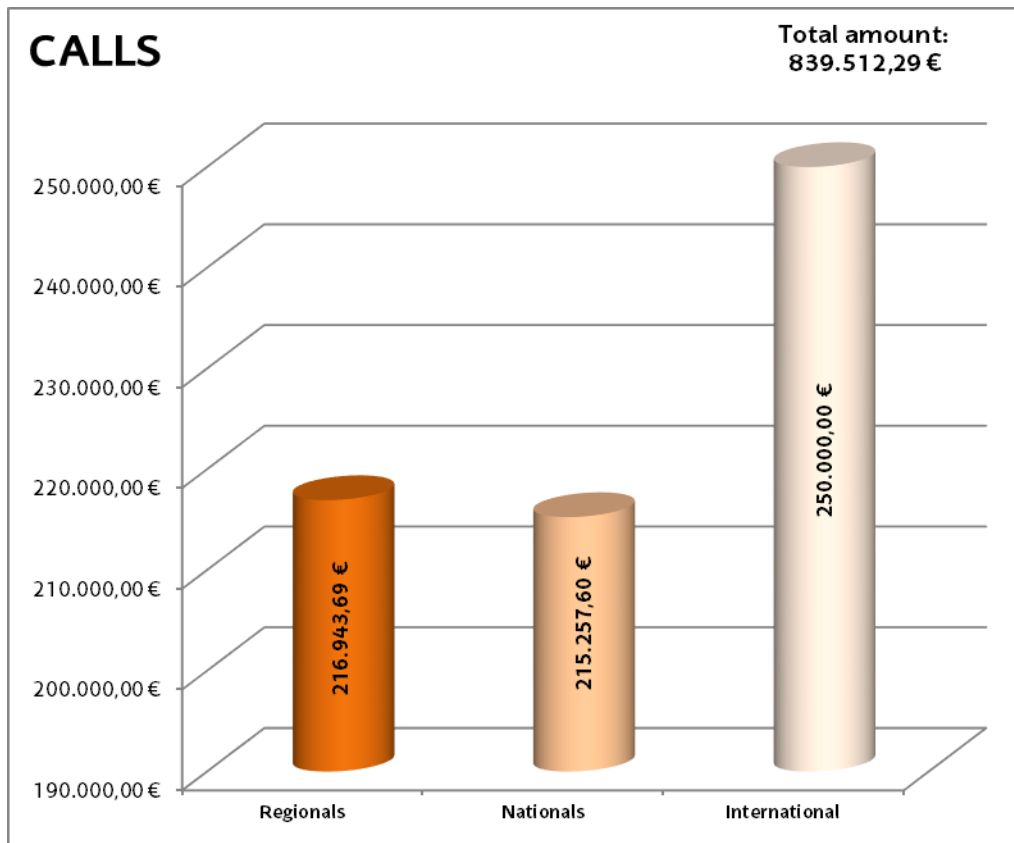
The groups had a total of 77 active projects throughout 2018, including projects initiated that year, for which a funding of 5,145,855 € was obtained.



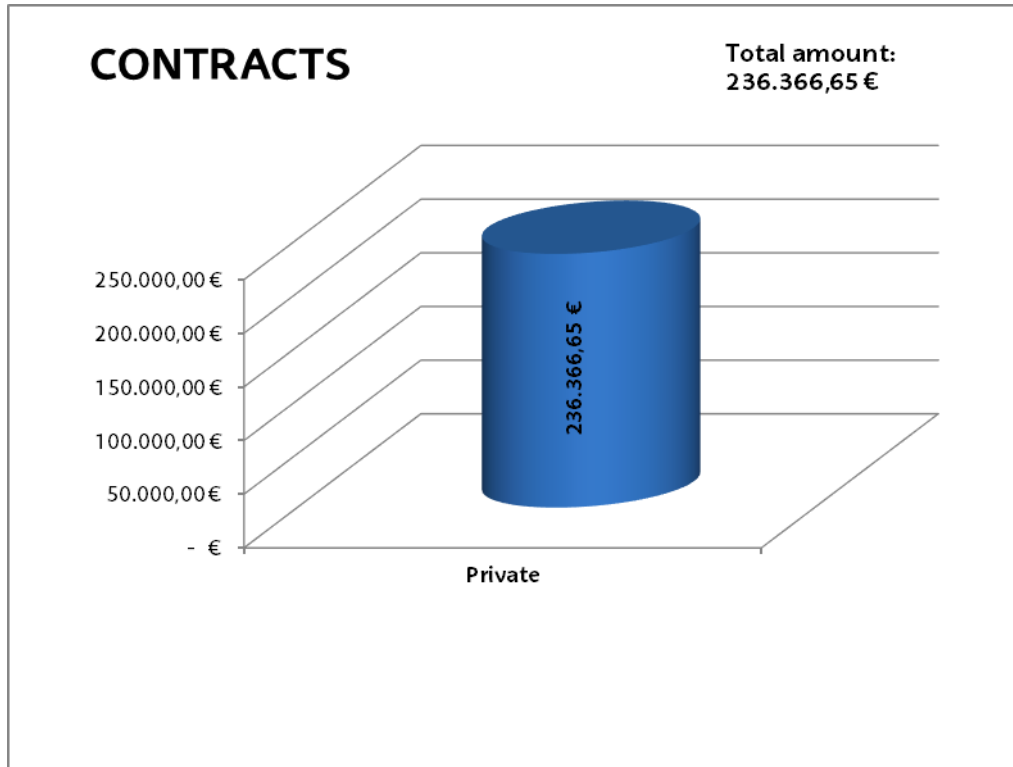
### Projects by amount

The total funding obtained by the research groups in 2018 amounted to 1,087,288.94 €.

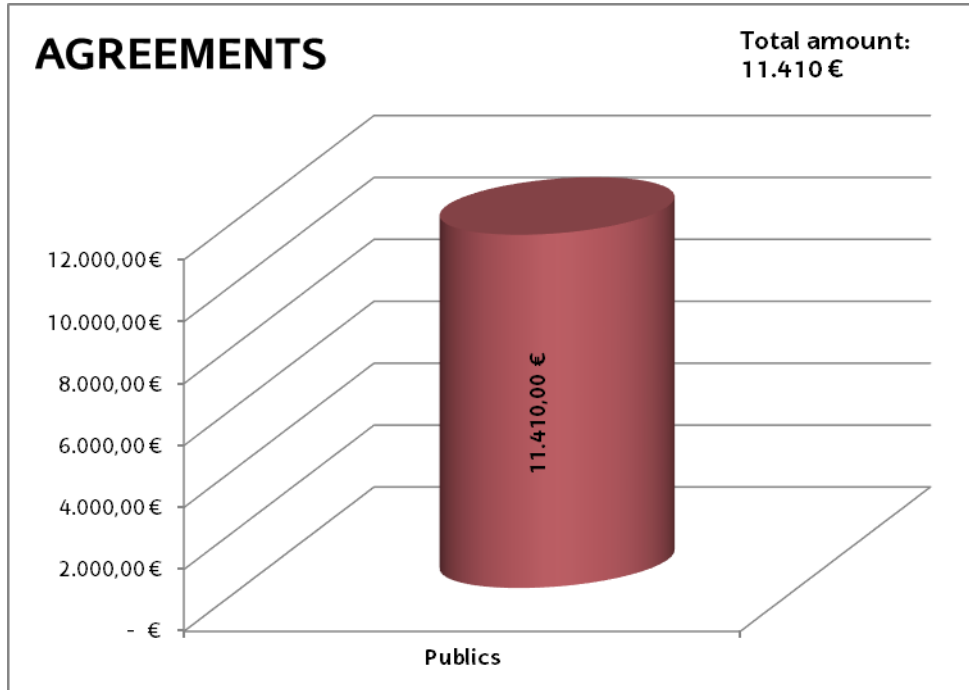
By amount, over 77% of the funding came from **competitive concurrence projects** (839,512.29 €).



As for **contracts**, the groups signed 12 new contracts for a total amount of 236,366.65 €. In most cases, these contracts were linked to private entities.



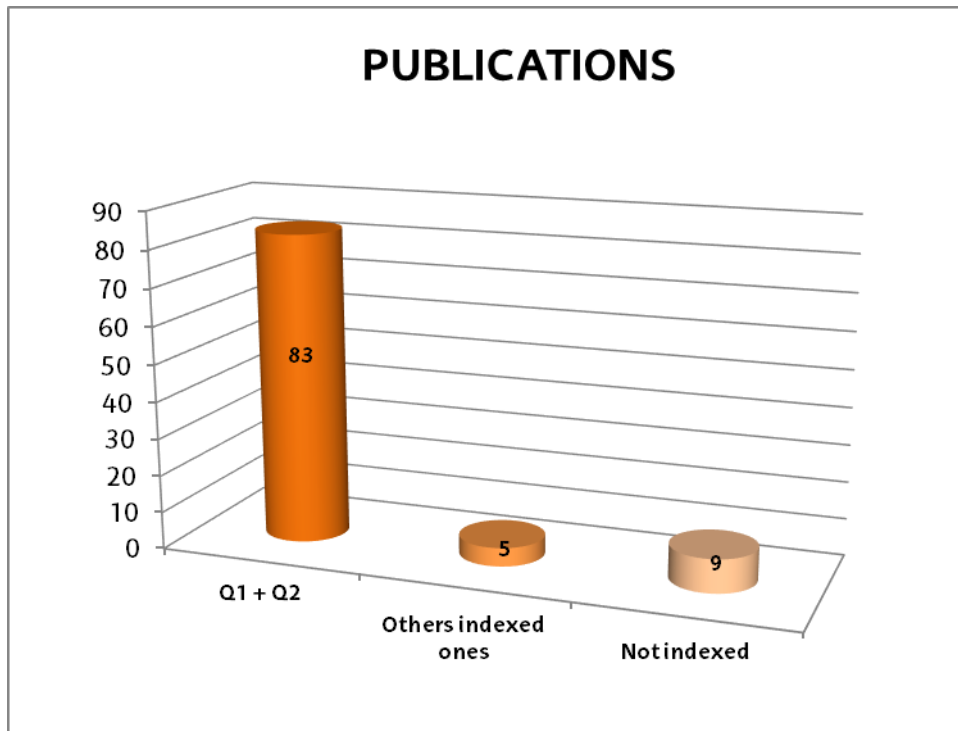
Lastly, **agreements** with public entities were signed for an amount of 11,140 €.



## PUBLICATIONS AND ARTICLES

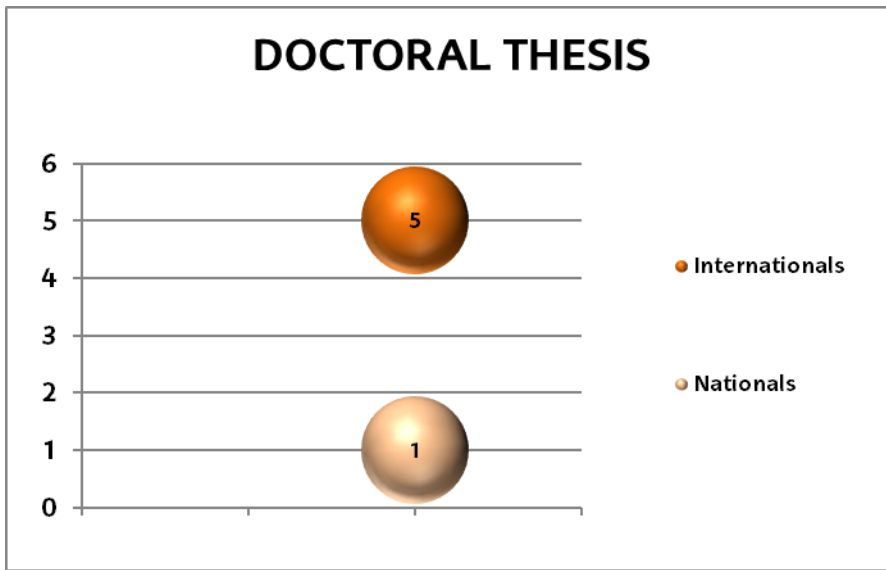
During this year, the groups issued a total of 97 publications; 90% of those corresponded to indexed journals. Most of them belonged to the first quartile.

TYPE OF PUBLICATION	AMOUNT
Q1	67
Q2	16
Other indexed	5
Not indexed	9
<b>TOTAL</b>	<b>97</b>

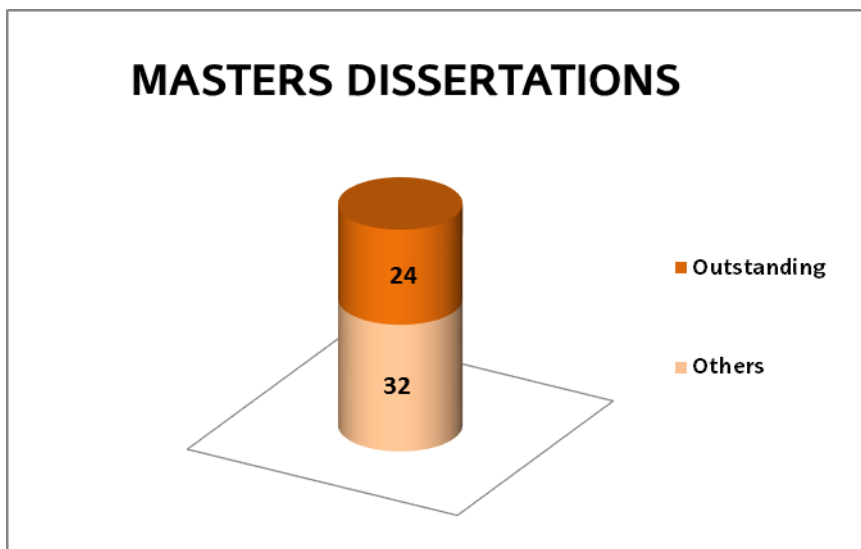


## PHD THESES AND MASTER THESES

In 2018, the Lascaray groups submitted 6 PhD theses; all of them with Excellent Qualification Cum Laude.



As for master theses, in academic year 2017-2018, the centre researches managed 56 projects.



## ALLIANCES AND NETWORKS

With the aim to contribute to research development, the Lascaray researchers take part in different organisational structures formed by several research agents. In total, there are 11 alliances and networks and 8 of them are carried out at an international level.

NETWORKS		ALLIANCES	
NATIONAL	INTERNATIONAL	NATIONAL	INTERNATIONAL
1	6	2	2



## PATENTS

4 research groups have 21 patents in force; 11 of them have been granted in Spain and 5 are currently going through international procedures.

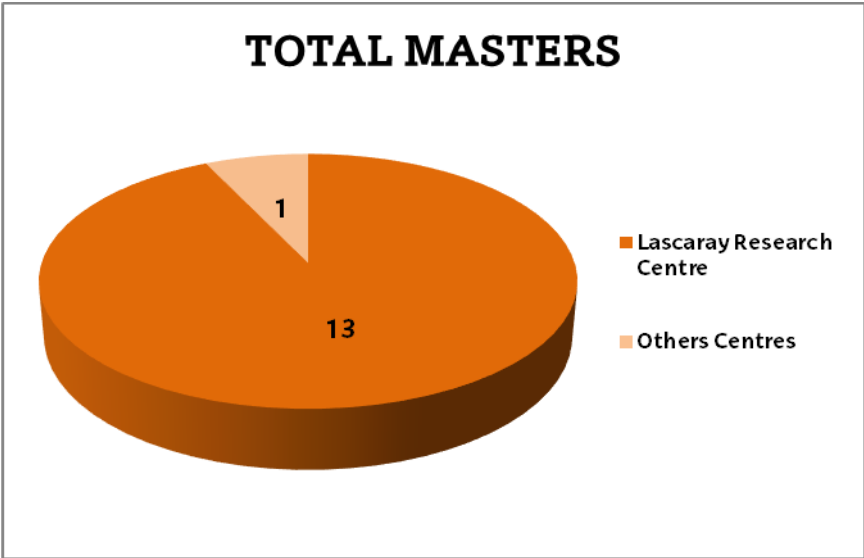
GROUP	NUMBER OF PATENTS	STATUS AND SCOPE
<b>BIOMICS</b>	6	1 licensed in Spain 4 granted in Spain 1 internationally granted
<b>Pharmacokinetics, Nanotechnology and Gene Therapy (PharmaNanoGene)</b>	4	2 granted in Spain and under international procedure 1 internationally granted 1 processed in Spain
<b>NanoBioCel</b>	9	5 granted in Spain 1 applied for in Spain 3 applied for in Europe
<b>Nutrition and Obesity</b>	2	1 internationally licensed 1 granted in Spain

## ORGANISATION OF MASTER AND PHD PROGRAMMES

Over the last academic year, the groups took part in 13 UPV/EHU university masters. The person responsible for 4 of those masters belonged to one of the centre research groups.

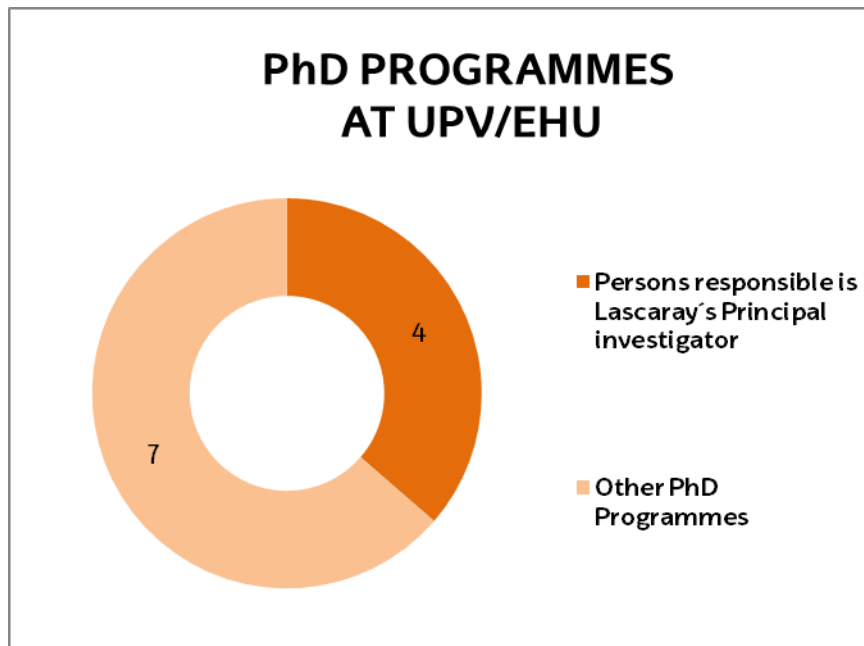
The UPV/EHU official masters have a workload of 60 credits ECTS, and in total, in academic year 2017-2018, 223 students enrolled in the master programmes where some of the Lascaray members collaborated.

Over 30% of masters taught at UPV/EHU by centre groups were located at Lascaray.





Regarding PhD programmes, the groups took part in 12 PhD programmes. The Lascaray Main Researchers were responsible for 4 of those programmes. The number of students enrolled was 515.

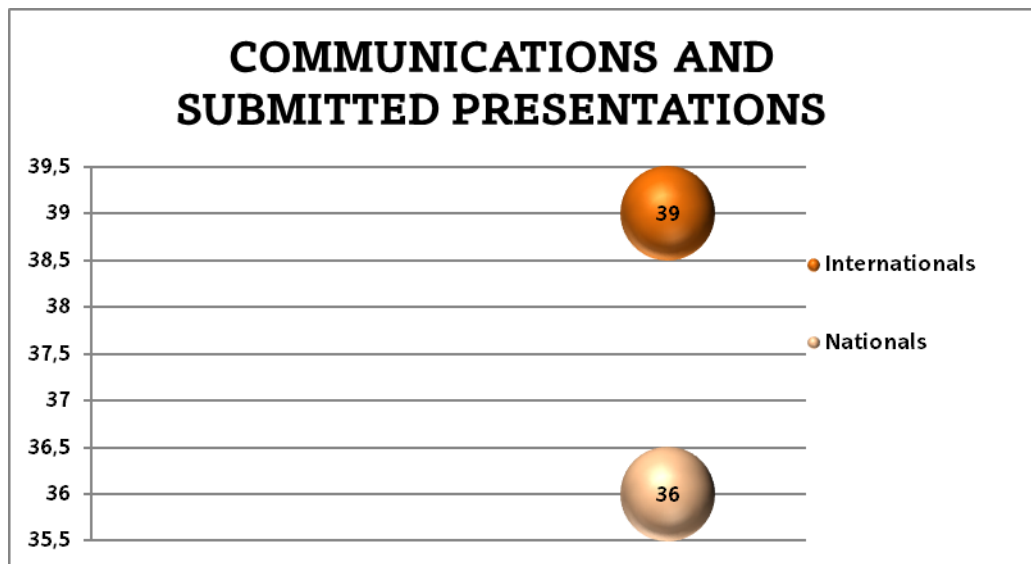


Full information about the UPV/EHU PhD school is available on:  
<http://www.ehu.eus/es/web/mde>

## ORGANISATION OF CONFERENCES, COMMUNICATIONS AND SUBMITTED PRESENTATIONS

The research groups of the building organised 3 conferences in 2018.

Besides, the researchers submitted 75 communications in poster, oral and presentation formats.



## RECOGNITIONS AND AWARDS

Several groups of the centre were awarded prizes all throughout the year:

GROUP	RECOGNITION-AWARD	ISSUING BODY
BIOMICs	Award to the best emerging researcher	OSI Bioaraba-UPV/EHU
Farmacokinetics, Nanotechnology and Gene Therapy (PharmaNanoGene)	<i>"Hiccups in Parkinson's disease: an analysis of cases reported in the European pharmacovigilance database and a review of the literature"</i> <b>Award to the best OSI Araba-UPV/EHU collaborative article</b>	Bioraba Institute for Health Research
LACTIKER	<b>Claudia Fuente García:</b> <b>Recognition: Assistance with participation in the 69th Annual Meeting of the European Federation of Animal Science (EAAP), Dubrovnik (Croatia).</b>	Spanish Federation of Animal Science (UEECA)

# **LASCARAY** **RESEARCHERS**



## RESEARCH GROUP

### BIOMICS & MICROFLUIDICS- UPV/EHU CLUSTER

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

#### Group members:

- Main researcher: Marian M. de Pancorbo Gomez. Professor of Cell Biology. [marian.mdepancorbo@ehu.es](mailto:marian.mdepancorbo@ehu.es); 945014528
- **Main researcher:** Lourdes Basabe Desmots. Ikerbasque Researcher. PhD in Supramolecular Chemistry and Nanotechnology. [lourdes.basabe@ehu.es](mailto:lourdes.basabe@ehu.es)
- Esther M. Rebato Ochoa. Professor of Biological Sciences. [esther.rebato@ehu.es](mailto:esther.rebato@ehu.es)
- Ana María Rocandio Pablo. Full professor of Nutrition and Bromatology. [anamaria.rocandio@ehu.es](mailto:anamaria.rocandio@ehu.es)
- Carmelo Aguirre Gómez. Full professor of Pharmacology. [carmelo.aguirregomez@osakidetza.net](mailto:carmelo.aguirregomez@osakidetza.net)
- José Ángel Peña García. Full professor of Animal Biology. [joseangel.pena@ehu.es](mailto:joseangel.pena@ehu.es)
- Marta Arroyo Izaga. PhD in Pharmacy, adjunct professor. [marta.arroyo@ehu.es](mailto:marta.arroyo@ehu.es)
- Edilberto Ojeda. Post-doctoral researcher. [edilberto.ojeda@ehu.es](mailto:edilberto.ojeda@ehu.es)
- Fernando Benito López. PhD in Supramolecular Chemistry and Nanotechnology, Ramón y Cajal researcher. [fernando.benito@ehu.es](mailto:fernando.benito@ehu.es)
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- Jaione Etxebarria Elezgarai. PhD in Chemical Engineering. [jaione.etxebarria@ehu.es](mailto:jaione.etxebarria@ehu.es)
- Javier Barroso Lázaro. Post-doctoral researcher.
- Leire Palencia Madrid. PhD in Biological Sciences. [leirepalencia@gmail.com](mailto:leirepalencia@gmail.com)

- Miriam Baeta Bafalluy. PhD in Biology, contracted researcher. [mbaetab@gmail.com](mailto:mbaetab@gmail.com)
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- Caterina Raffone. Degree in Biology, PhD student. [caterina.raffone@gmail.com](mailto:caterina.raffone@gmail.com)
- David Gamarra Fernández. Degree in Biological Sciences, pre-doctoral scholarship holder. [davidgamarra@gmail.com](mailto:davidgamarra@gmail.com)
- Enrique Azuaje Hualde. Degree in Pharmacy, pre-doctoral scholarship holder. [e.azuajehualde@gmail.com](mailto:e.azuajehualde@gmail.com)
- Eva Granizo Rodríguez. Degree in Biology, Training research staff. [eva.granizo@ehu.es](mailto:eva.granizo@ehu.es)
- Iker Alegría Lertxundi. Degree in Human nutrition and Dietetics, pre-doctoral scholarship holder. [lertxundi83@gmail.com](mailto:lertxundi83@gmail.com)
- Maite García. Degree in Biotechnology, pre-doctoral scholarship holder. [mgar93@gmail.com](mailto:mgar93@gmail.com)
- Nerea Telleria Aramburu. Degree in Human nutrition and Dietetics, pre-doctoral scholarship holder. [nerea\\_telleria@hotmail.com](mailto:nerea_telleria@hotmail.com)
- Patricia Villaescusa Urbaneja. Degree in Biochemistry, pre-doctoral scholarship holder. [patricia.villaescusa@ehu.es](mailto:patricia.villaescusa@ehu.es)
- Sandra García Rey. Pre-doctoral scholarship holder.
- Tamara Soledad Kleinbielen. Degree in Genetics, pre-doctoral student. [tamykleinbielen@gmail.com](mailto:tamykleinbielen@gmail.com)
- Udara Bimendra Kekulupologe. Pre-doctoral scholarship holder.
- Vahid Nasirimarekani. Pre-doctoral scholarship holder.

## Research lines

### BIOMICS

- Genetic Variability: Current human communities and current archeological human and animal communities. Applications to genetic communities, evolution and forensic identification.
- Biomedicine: Genomics, epigenomics, and miomas in neurodegenerative diseases

and pharmacogenetics.

- Model development: Expansion of human adult mesenchymal stem cell cultivation and differentiation.
- Lifestyles and influences in health and diseases.
- Microtechnologies: Development of microfluidics and nanosensors devices to use in different biosciences areas, main in biomedicine and forensic sciences.

### MICROFLUIDICS CLUSTER UPV/EHU

Development and study of fundamental components of microfluidic devices

- Development of micro pumps for lab on a chip applications.
- Self-powered microfluidic networks. - Devices in paper, plastic and hybrids: paper-polymers.
- Novel microfabrication methods for polymeric microfluidic systems based on 3D stereolithography.

Micro and nano engineering of surfaces.

- Surface chemistry, and pattern fabrication.
- Formation of protein micropatterns on surfaces
- Formation of nanoparticle patterns on surfaces
- Integration of sensors in microfluidic networks
- Plasmonic sensors based on metal nanoparticles, biosensors based on antibody immobilization, novel optical sensing strategies.

Cells in chips

- Development of Microsystems for cell culture and monitoring under controlled microenvironment.

Smart materials on microfluidic systems

Stimuli-responsive materials able to undergo volumetric changes in response to physical and chemical changes in their local environment. Integration of valves in microfluidic chips for flow control.

The applied research lines are:

Development of integrated Microsystems

- Rapid diagnosis, personalized medicine
- Water analysis devices
- Disposable, wearable devices for body fluid analysis

## Campylobacter & Arcobacter Molecular Epidemiology

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

### Group members:

- Main researcher: Aurora Fernández-Astorga. Professor of Microbiology. [aurora.fernandez@ehu.es](mailto:aurora.fernandez@ehu.es);
- Águeda Fernandez de Aranguiz Guridi. Full professor of Microbiology. [agueda.fernandezdearanguiz@ehu.es](mailto:agueda.fernandezdearanguiz@ehu.es)
- Karmele Colom Aristondo. Full professor of Microbiology. [karmele.colom@ehu.es](mailto:karmele.colom@ehu.es)
- Rodrigo Alonso Monsalve. Full professor of Microbiology. [rodrigo.alonso@ehu.es](mailto:rodrigo.alonso@ehu.es)
- Irati Martínez Malax-Etxebarria. PhD in Biology, part-time lecturer. [irati.martinez@ehu.es](mailto:irati.martinez@ehu.es)
- Cecilia Girbau Iturralde. PhD in Biology, contracted researcher. [cecilia.girbau@ehu.es](mailto:cecilia.girbau@ehu.es)
- Héctor Velasco Arregui. Pre-doctoral scholarship holder. [hvelasco001@gmail.com](mailto:hvelasco001@gmail.com)

### Research lines

- Campylobacter molecular epidemiology.
- Genomotyping of C. Jejuni (DNA microarrays).
- Arcobacter molecular epidemiology.
- Isolates classification (Enterococcus).



## Cardiac Electrophysiology

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

### Group members:

- Main researcher: Óscar Casis Sáenz. Full professor of Physiology. [oscar.casis@ehu.es](mailto:oscar.casis@ehu.es)
- Mónica Gallego Muñoz. Full professor of Physiology. [monica.gallego@ehu.es](mailto:monica.gallego@ehu.es)
- Ainhoa Rodríguez de Yurre Guirao. Pre-doctoral scholarship holder of the Government of Brazil
- Julian Zayas Arrabal. Graduated in Biology, pre-doctoral scholarship holder. [julian.zayas@ehu.es](mailto:julian.zayas@ehu.es)
- Victor Fernández López. Graduated in Biology, pre-doctoral scholarship holder. [victorpalazuelo@gmail.com](mailto:victorpalazuelo@gmail.com)

### Research lines

- Cardiac electrical remodeling in metabolic diseases of highest prevalence: diabetes and hypothyroidism.
- Molecular and cell mechanisms triggering cardiac arrhythmias.

## Food Process, Quality and Safety (PROCAYSEAL)

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

### Group members:

- Main researcher: María Dolores Guillén Lorén. Professor of Food Technology. [mariadolores.guillen@ehu.es](mailto:mariadolores.guillen@ehu.es); 945013081
- Encarnación Goicoechea Osés. PhD, full professor. [encarnacion.goicoechea@ehu.es](mailto:encarnacion.goicoechea@ehu.es)
- Ainhoa Ruiz Aracama. PhD, full professor. [ainhoa.ruiz@ehu.es](mailto:ainhoa.ruiz@ehu.es)

- María José Manzanos Arnaiz. PhD, adjunct professor.  
[mariajose.manzanos@ehu.eus](mailto:mariajose.manzanos@ehu.eus)
- Andrea Martínez Yusta. PhD, associate professor.  
[andrea.martinez@ehu.eus](mailto:andrea.martinez@ehu.eus)
- Barbara Nieva Echevarría. PhD, part-time lecturer.  
[barbara.nieva@ehu.eus](mailto:barbara.nieva@ehu.eus)
- María Luisa Ibargoitia Isasi-Isasmendi. PhD, associate professor, contracted researcher. [marialuisa.ibargoitia@ehu.eus](mailto:marialuisa.ibargoitia@ehu.eus)
- Patricia Sopelana Garay. PhD research staff. [patricia.sopelana@ehu.es](mailto:patricia.sopelana@ehu.es)
- Jon Alberdi Cedeño. Pre-doctoral scholarship holder.  
[jon.alberdi@ehu.eus](mailto:jon.alberdi@ehu.eus)
- Sofia del Caño Ochoa. Pre-doctoral scholarship holder.  
[sofia.delcano@ehu.eus](mailto:sofia.delcano@ehu.eus)
- Ana María San Martín Rubio. Pre-doctoral scholarship holder.  
[anamaria.sanmartin@ehu.eus](mailto:anamaria.sanmartin@ehu.eus)

### Research lines

- Smoke aromas, composition, production, characteristics and safety.
- Composition and antioxidant activity of essential oils, extracts from aromatic plants, spices and aromas.
- Smoking of food with smoke and smoke aromas.
- Study of food aroma through their volatile components.
- Polycyclic Aromatic Hydrocarbons (PAHs) in foods.
- Characterisation of fats, oils and food lipids by unconventional techniques.
- Fats, oils and food lipids degradation processes.
- Genotoxic and Cytotoxic oxygenated alpha,beta unsaturated aldehydes in foods.
- Frying and the Maillard reaction. Influence of processing conditions, oil and food composition nature regarding safety and quality of fried foods.
- Evolution of food lipids and antioxidant compounds in processing and digestion.

## Pharmacokinetics, Nanotechnology and Gene Therapy (PharmaNanoGene)

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

### Group members:

- Main researcher: Alicia Rodríguez Gascón. PhD, Full professor of Pharmacy and Pharmaceutical Technology. [alicia.rodriguez@ehu.es](mailto:alicia.rodriguez@ehu.es)
- Begoña Calvo Hernáez. Professor of Pharmacy and Pharmaceutical Technology. [b.calvo@ehu.es](mailto:b.calvo@ehu.es)
- Arantxazu Isla Ruiz. PhD in Pharmacy, adjunct professor. [arantxa.isla@ehu.es](mailto:arantxa.isla@ehu.es)
- María Ángeles Solinís Aspiazu. PhD in Pharmacy, adjunct professor. [marian.solinis@ehu.es](mailto:marian.solinis@ehu.es)
- Ana del Pozo Rodríguez. PhD in Pharmacy, associate professor. [ana.delpozo@ehu.es](mailto:ana.delpozo@ehu.es)
- Andrés Canut Blasco. PhD in Medicine and Surgery, University Hospital of Álava. [andres.canutblasco@osakidetza.net](mailto:andres.canutblasco@osakidetza.net)
- Josune Torrecilla Alzola. PhD in Biology/ PhD in Development, Assessment and Rational Use of Drugs, contracted researcher. [josune.torrecilla@ehu.es](mailto:josune.torrecilla@ehu.es)
- Monica Vicente Pascual. Graduated in Pharmacy, contracted researcher. [monica.vicente@ehu.es](mailto:monica.vicente@ehu.es)
- Amaia Soraluze Olañeta. Degree in Pharmacy, PhD student. [amaiasoraluce@hotmail.com](mailto:amaiasoraluce@hotmail.com)
- Helena Barrasa González. Degree in Medicine and Surgery, specialist in Intensive Medicine, PhD student. [helenabarrasa@gmail.com](mailto:helenabarrasa@gmail.com)
- Ion González Crespo. Degree in Pharmacy, PhD student. [ionglez.crespo@gmail.com](mailto:ionglez.crespo@gmail.com)
- Maitane Ibar Bariain. Degree in Pharmacy, specialist in Hospital Pharmacy, PhD student. [maitane.ibar@gmail.com](mailto:maitane.ibar@gmail.com)
- Yanire Llorens Villar. Degree in Pharmacy, specialist in Hospital Pharmacy, pre-doctoral scholarship holder. [yanire.llorens@ehu.es](mailto:yanire.llorens@ehu.es)

### Research lines

- **Development of non-viral vectors for gene therapy.**
- **Development of nanoparticle systems for vehiculation of drugs.**
- **Pharmacokinetic/pharmacodynamic analysis of antibiotic therapy.**
- **Clinical pharmacokinetics of antimicrobial agents in critically-ill patients.**
- **Pharmacotherapeutic safety assessment of drugs. Pharmaceutical care.**
- **Legal regulation of biotechnological drugs.**

### Phosphorus-Fluorine Chemistry

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

#### Group members:

- **Main researcher: Francisco J. Palacios Gamba. Professor of Organic Chemistry. [francisco.palacios@ehu.es](mailto:francisco.palacios@ehu.es)**
- **Ana María Ochoa de Retana Mendibil. Full professor of Organic Chemistry. [anamaria.ochoaderetana@ehu.es](mailto:anamaria.ochoaderetana@ehu.es)**
- **Edorta Martínez de Marigorta Izaga. Full professor of Organic Chemistry. [edorta.martinezdemarigorta@ehu.es](mailto:edorta.martinezdemarigorta@ehu.es)**
- **María Gloria Rubiales Alcaine. Full professor of Organic Chemistry. [gloria.rubiales@ehu.es](mailto:gloria.rubiales@ehu.es)**
- **María Fuertes Sánchez. PhD in Pharmacy, part-time lecturer. [maria.fuertes@ehu.es](mailto:maria.fuertes@ehu.es)**
- **Javier Vicario Hernando. PhD in Chemistry, Ramón y Cajal researcher. [javier.vicario@ehu.es](mailto:javier.vicario@ehu.es)**
- **Concepción Alonso Pérez. PhD in Chemistry, contracted researcher. [concepcion.alonso@ehu.es](mailto:concepcion.alonso@ehu.es)**
- **Jesús M. de los Santos Ruiz. PhD in Chemistry, contracted researcher. [jesus.delossantos@ehu.es](mailto:jesus.delossantos@ehu.es)**

- Zhouair es Sbai. Degree in Pharmacy, contracted researcher. [zouhair.essbai@ehu.es](mailto:zouhair.essbai@ehu.es)
- Maria González Sáenz. Degree in Chemistry, pre-doctoral scholarship holder. [maria.gonzalezs@ehu.es](mailto:maria.gonzalezs@ehu.es)

### Research lines

- Synthetic organic chemistry. Solid-phase synthesis. Combinatorial chemistry, catalysis in organic synthesis.
- Organophosphorus compounds, Aminophosphonates. Fluorinated compounds.
- Heterocyclic compounds. Cycloaddition reactions. Azadienes, Aziridines, Aminoacids.
- Design and synthesis of enzyme inhibitors. Development of new active ingredients of drugs. Radiopharmaceuticals.

### Lactiker-Quality and Safety of Animal-origin Foods

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

#### Group members:

- Main researcher: Luis Javier R. Barron. Professor of Food Technology. [luisjavier.rbarron@ehu.es](mailto:luisjavier.rbarron@ehu.es);
- Ana Isabel Najera Ortigosa. Full professor of Food Technology. [anaisabel.najera@ehu.es](mailto:anaisabel.najera@ehu.es)
- Francisco José Pérez Elortondo. Full professor of Nutrition and Bromatology. [franciscojose.perez@ehu.es](mailto:franciscojose.perez@ehu.es)
- Maria Dolores Virto Lecuona. Full professor of Biochemistry and Molecular Biology. [mailo.virto@ehu.es](mailto:mailo.virto@ehu.es)
- Marta Maria Albisu Aguado. Full professor of Nutrition and Bromatology. [marta.albisu@ehu.es](mailto:marta.albisu@ehu.es)
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### Research lines

- Sustainability of animal-origin food production systems with special emphasis on grazing systems.
- Assessment and production of high-quality meat; nutritional and sensory characterisation, and identification of meat genetic markers.
- Characterisation of animal-origin products from grazing: quality, traceability and authentication of products.
- Optimisation and tuning of food sensorial analysis methods: relation between sensory properties, composition and processing technologies.
- Sustainability of cheese production in small rural cheese factories: improvement

of cheese performance and management of whey produced.

- Metagenomic study of the microbiota in dairy products.
- Research on technologies and optimal conditions to prolong the commercial life of ripened cheese.

## METABOLOMIPs. Biomedical, Food and Environmental Metabolomics

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

### Group members:

- Main researcher: Ramón J. Barrio Díez-Caballero. Professor of Analytical Chemistry. [r.barrio@ehu.eus](mailto:r.barrio@ehu.eus)
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### Research lines

- Molecular recognition techniques based on the development of new biomimetic polymeric materials.
- Metabolomic studies for the characterisation of biomarkers.
- Forensic chemical analysis.
- Metabolomics: wime-omics.

## NanoBioCel

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

Group members:

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### Research lines

- Microencapsulation of living cells.
- Micro and nanoparticles as administration systems for peptide and protein-based vaccinations.
- Non-viral vectors for gene therapy.
- Development of modified release formulations.
- Biopharmaceutical and pharmacokinetic assessment of modified release formulations and new therapeutic systems.

- Nanoformulations for pulmonary administration.

## Cell and Molecular Neuropharmacology

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

### Group members:

- Main researcher: Joan Sallés Alvira. Professor of Pharmacology. [joan.salles@ehu.es](mailto:joan.salles@ehu.es)
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- Leire Borrega Roman. Graduated in Pharmacy, pre-doctoral researcher of the Basque Government. [leire.borrega@ehu.es](mailto:leire.borrega@ehu.es)

### Research lines

- Molecular and cell bases of signaling through C-BETA1 phospholipase in neuronal differentiation processes
- Signaling directed by CB1 cannabinoid receptors in central nervous system

## Nutrition and Obesity

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

### Group members:

- Main researcher: María Puy Portillo Baquedano. Professor of Nutrition and Bromatology. [mariapuy.portillo@ehu.eus](mailto:mariapuy.portillo@ehu.eus)
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### Research lines

- Functional ingredients and obesity.
- Functional ingredients and liver steatosis.
- Functional ingredients and diabetes mellitus.
- Mediterranean diet and health.
- Childhood obesity.
- Epigenetics: obesity markers and liver steatosis.
- Assessment of food habits and nutritional status of population groups.
- Assessment of gluten in foods. Accredited laboratory.
- Identification of possible predictors of susceptibility to disease development.
- Bioactive compounds obtained from macroalgae and microalgae and effects on health.

## Parasitology and Inmunoallergy

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

### Group members:

- Main researcher: Jorge Martínez Quesada. Full professor of Parasitology. [jorge.martinez@ehu.es](mailto:jorge.martinez@ehu.es)
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- Ester Suñén Pardo. Full professor of Microbiology. [ester.sunen@ehu.es](mailto:ester.sunen@ehu.es)
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- Miriam Dueso. Graduated in Microbiology, contracted researcher. [patricia.sanchez@ehu.es](mailto:patricia.sanchez@ehu.es)
- Patricia Sanchez. Graduated in Pharmacy, contracted researcher. [patricia.sanchez@ehu.es](mailto:patricia.sanchez@ehu.es)
- Ainara Velez del Burgo. Graduated in Pharmacy, training research staff. [avelezdelburgo@gmail.com](mailto:avelezdelburgo@gmail.com)

### Research lines

- *Toxocara canis* and *Anisakis simplex*. Characterisation and study of larval allergens. Key words: toxocarosis, *Toxocara canis*, allergy, nematodes, parasite immunology, zoonoses. Study of the relevance of Ascarid allergens in hives of unknown origin.
- Food allergens: study of the allergenic food components. Application of the qPCR for the detection and early quantification of allergens of phyto-parasitic origin in foods.
- Allergen detection of phytopathogenic species of citrus fruits in fruits parasitised by allergenic fungi. Models of experimental infection and transfer of methodologies to fruits for consumption.
- Production of monoclonal antibodies against canine IgE and allergens of plant and fungal origin.

### Population scheme, biogeography and dynamics

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

**Group members:**

- Main researcher **Benjamin J. Gómez Moliner. Professor of Zoology.**  
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**Research lines**

- **Phylogeography and Genetics regarding the landscape of the Martes species (Martes martes; Martes zibellina and Martes foina) (Carnivora order; Mustelidae Family).**
- **Genetics structuring and variability of fragmented populations of threatened amphibians.**
- **Phylogeny, Philogeography and population structuring of continental molluscs.**
- **Opilione scheme.**
- **Monitoring of the effect of the introduction of invasive alien species on native populations.**

- Population dynamics studies on wild carnivores by means of non-invasive molecular techniques.
- Ecological connectivity studies and predictive distribution of wildlife.
- Application of massive sequencing techniques in studies of scheme, biogeography and population dynamics.
- Environmental DNA 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](http://www.ehu.es/SGIker/es/adn/servicios_ofertados.php)

**Scientific Responsible:** Marian M. de Pancorbo Gomez.  
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**SGIker Technician:** Maite Alvarez Alvarez. [maite.alvarez@ehu.es](mailto: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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**Monica Ojeda Atxiaga.** [monica.ojeda@ehu.es](mailto:monica.ojeda@ehu.es)

## 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>

Scientific Responsible: **Ramón Barrio Diez-Caballero.** [r.barrio@ehu.es](mailto:r.barrio@ehu.es)

SGIker Technician:

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**Alicia Sánchez Ortega.** [alicia.sanchez@ehu.es](mailto:alicia.sanchez@ehu.es)

### 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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**Responsible:** Edorta Martínez de Marigorta Izaga.  
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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.

## Cartography and Geographic Information Systems

[http://www.ikerkuntza.ehu.es/p273-scsigt/es/contenidos/informacion/sgiker\\_cartografia/es\\_cartogra/presentacion.html](http://www.ikerkuntza.ehu.es/p273-scsigt/es/contenidos/informacion/sgiker_cartografia/es_cartogra/presentacion.html)

Principal investigator: Luis Eguiluz Alarcón [luis.eguiluz@ehu.eus](mailto:luis.eguiluz@ehu.eus)

### 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

### Web

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SGIker Technician: Maite Alvarez Alvarez ([maite.alvarez@ehu.eus](mailto:maite.alvarez@ehu.eus))

### General information

Level-3 Biological Containment Laboratory, University of the Basque Country (UPV/EHU), has been installed at the Lascaray Ikerguna Research Centre. It occupies an area of 140 m<sup>2</sup> 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/EHU on: <https://www.ehu.eus/en/web/sgiker/home>

## INIZIA BUSINESS INCUBATOR



In 2018, with the aim to provide the INIZIA business incubator with the possibility to offer a wider range of business initiatives linked to the different fields of knowledge represented in the Campus, apart from using the spaces inside the Lascaray Research Centre, it was considered necessary, to make a new space available at the Vitoria-Gasteiz School of Engineering.

Thus, in 2018 and 2019, the companies that stayed at Lascaray Centre and at the School of Engineering were: on the one hand, "Karuna Good Cells Technologies" and "Abagune Research", and on the other hand, "See You Zoom" and "Digitalización de facturas en soporte papel", respectively.

All of them are characterised by their highly technological focus, by having vinculation with UPV/EHU research groups and by being projects to develop and consolidate in Álava.

### KARUNA GOODCELLS TECHNOLOGIES, S.L



#### Object of the company:

Technology-based company using the latest developments in genomic editing and regenerative medicine for the cure of diseases with genetic-components.

## ABAGUNE RESEARCH



### Object of the company:

Research biotechnical research and development company specialising in the Cannabis industry.

## SEE YOU ZOOM



### Object of the company:

Creation of graphic content, 3D and Virtual Reality for the real estate sector, construction, architecture, design and interior design. Digital real estate marketing.

## DIGITALIZACIÓN DE FACTURAS EN SOPORTE PAPEL

### Object of the company:

The project aims at developing an APP for smartphones for the user to be able to register invoices (expenditure documents) by picture capturing by means of a camera.

All the information and documentation about the Business Incubator can be found on the this website: <http://www.ehu.es/es/web/lascarayikergunea/enpresa-mintegia>