

LASCARAY

RESEARCH CENTRE

SCIENTIFIC ACTIVITY REPORT

2017



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LASCARAY RESEARCH CENTRE

The Lascaray Ikerguna Research Centre houses research of the highest excellence. The spaces are occupied by 13 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 XVII 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.

LASCARAY ACTIVITIES



LASCARAY ACTIVITIES

Apart from activities, courses, masters and meetings conducted by the research groups at Lascaray Ikerguna Research Centre, 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.

Several groups participated as every year, in the Science Week organized by UPV/EHU. Beside, a great number of researches took part in the "XVIII Jornadas de investigación de Bioaraba" organized by OSI Araba/Bioaraba and UPV/EHU. The event was celebrated the 9th of November, in the Europa Congress Palace of Vitoria-Gasteiz.

Further information about the activities are available at www.ehu.eus/lascarayikergunea



Lunch with Science at Lascaray

"Lunch with Science at Lascaray" continued in 2017, an activity where young researches had the chance to share the experiences and strategies that had led them to consolidate their position as well as to introduce their most relevant line of research.

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 process and, in general, lecturers/researchers from the university community. During the sessions, pizza and refreshments were offered to attendees.

In 2017, 4 lunches have taken place, each with an average attendance of 20 people.



3rd of May

- *"Análisis funcional metabólico en células vivas con el Seahorse"*
- Speaker: Ana Aiaitui Pujana PhD, Responsable for Cell Culture and Hystology Platforms at Biodonostia Institute.

14th of June

- *"De micro a macro y viceversa"*
- Speaker: Oihane Martin PhD, Specialised Physician. Microbiology and Parasitology Service. Ramón & Cajal Hospital, Madrid.
-

18th of October

- *"Asma y neumonitis por hipersensibilidad: De los modelos experimentales a la investigación traslacional"*.
- Speaker: Maria Jesús Cruz Carmona PhD, Researcher Miguel Servet, Recerca Vall D'Hebron Institute, Barcelona.

21st of November

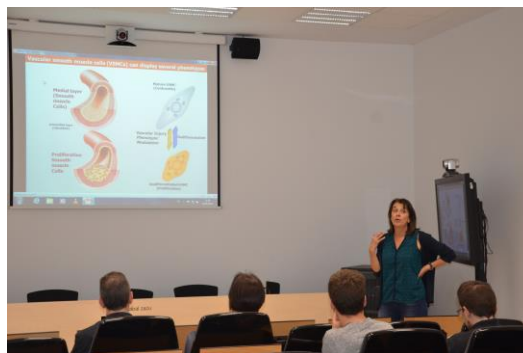
- *"Molecular genetics studies on adipo/lipogenesis of porcine preadipocytes"*
- Speaker: Masaaki Taniguchi PhD, Animal Genome Unit, Institute of Livestock and Grassland Science, National Agriculture Research Organization (NARO) Tsukuba, Japan

Scientific Sessions of Lascaray Research Groups

A scientific session was carried out this year by the centre research groups. The aim has been the presentation of some of the latests and more relevant international publications of each group, so as to facilitate the sharing of such work with the rest of researches of the Centre.

17th of May

- *"Canales de potasio y proliferación Vascular"*.
- Research group: Cardiac Electrophysiology
- Speaker: M^a Teresa Pérez García PhD, Permanent Lecturer of the University of Valladolid and Researcher at the Institute of Biology and Molecular Genetics, Spanish National Research Council.



On the other hand, Lactiker research group, organized an advanced course with FAO-CIHEAM, from the 15th to the 19th of May in Lascaray Research Center, called: "Valorization of sheep and goat dairy products in the Mediterranean".

INIZIA Arabacampus 2017 Entrepreneurship Sessions



In the framework of the agreement to promote entrepreneurship signed between BIC Araba and the Alava Campus, the INIZIA Arabacampus program is to be found. This program is devoted to the development of activities focusing on the generation and promotion of the entrepreneurial culture in the university community, as well as on the provision of those entrepreneurial projects coming from technology transfer

processes and the management of innovation with infrastructures and basic equipment.

Throughout the year, several conferences and entrepreneurship workshops have taken place within the INIZIA Arabacampus Program at Lascaray:

5th of April

- "Creation and start-up of an business project"
- Speaker: [ASLE](#)

15th and 22nd of May

- "Experiential workshop to generate business models for researchers. From the Idea to the business"

8th of June

- "Market research"
- Speaker: Javier García - [HPA](#)

20th of October

- "Generation of business models"
- Speaker: Aitor Díaz Lucas - [AD CONSULTORES](#)

16th of November

- "Marketing and sales for entrepreneurs"
- Speaker: [Celestino Martínez](#)



Master Astea 2017

For the second consecutive year, the ASTEA MASTER of 2017 of the Alava Campus was held at the Lascaray Research Centre.



The event took place on 21st of March and during the session, those interested in studying the Master had the opportunity to find out about the University of the Basque Country UPV/EHU postgraduate studies for 2016/2017. Apart from information stands, sessions to introduce different masters were held, where students had the chance to solve doubts directly with the Master lecturers. Also information on grants and scholarships or mobility was available.

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 2017, 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.

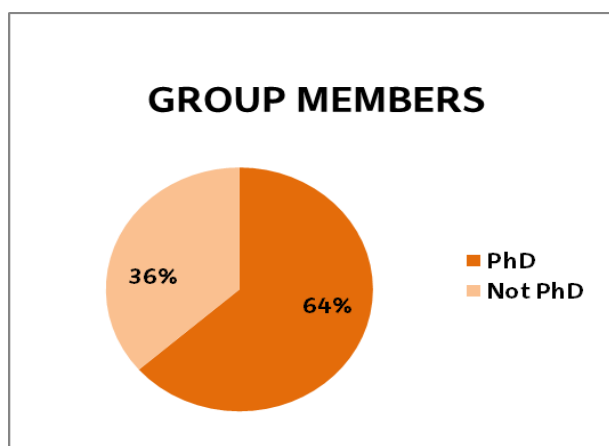
LASCARAY IN FIGURES



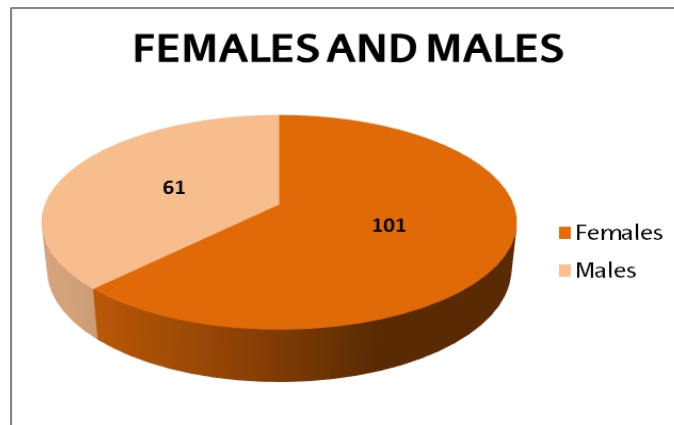
GROUP MEMBERS



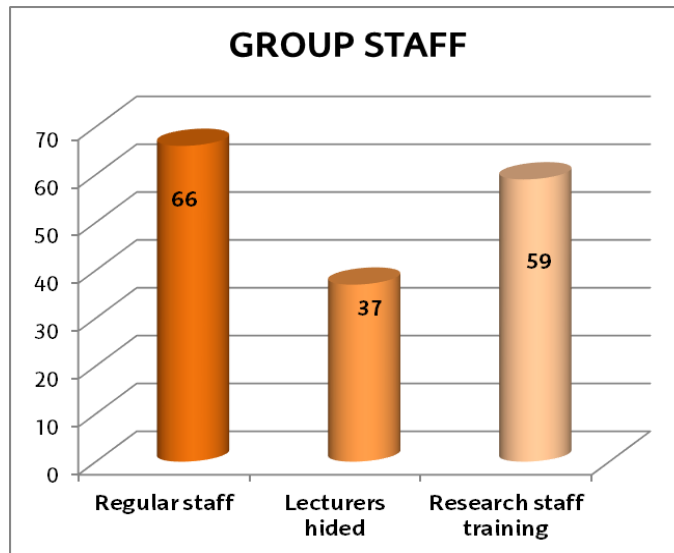
162 researchers worked in the 13 Lascaray Research Centre groups in 2017. The number of researchers has considerably increased since the opening of the Centre, which means that projects and activities conducted are also significantly increasing.



By sex, women are more than the 60% of the research personnel in the centre.



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

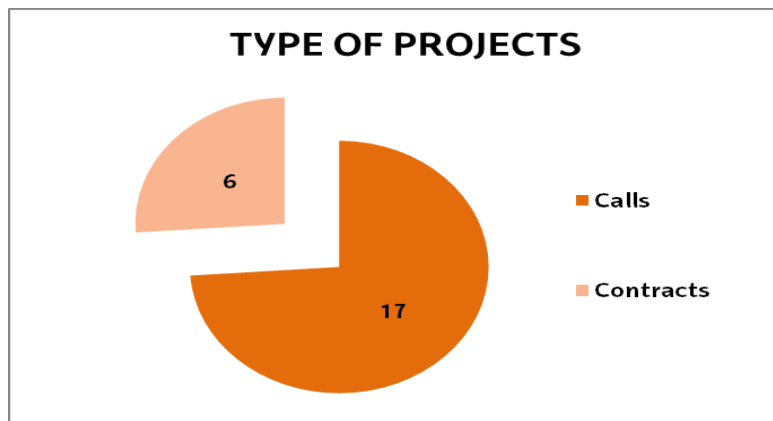


Staff on the UPV/EHU payroll (Professor Staff and Tenured Faculty, Ramon y Cajal and Ikerbasque Programmes), Contract PhD Staff and Research Staff in Training (predoctoral and/or fellows).

PROJECTS

Types of projects according to the sources of funding

In 2017 the Centre groups initiated 23 new research projects, for which funding has been obtained through different sources such as Calls/tenders and Contracts.



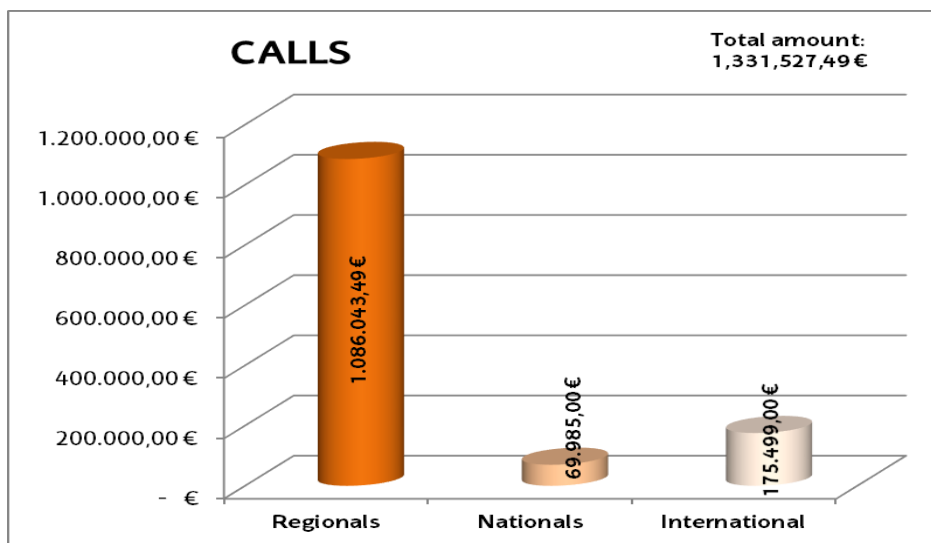
75% of projects started this year corresponds to calls for a competitive basis of award, mainly regional calls.

The groups maintained a total of 61 projects in force in 2017, including those initiated this year.

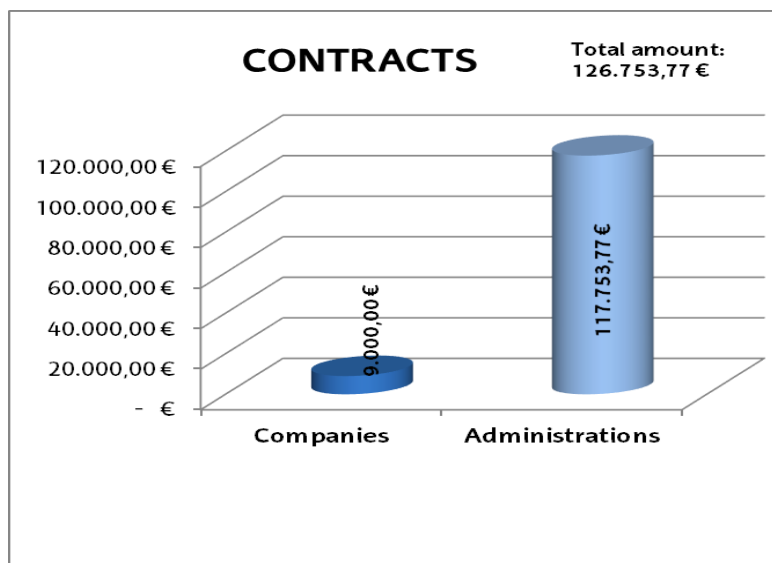
Projects classified by amount

The total funding raised by the Research groups in 2017 was 1.458.281,26 €.

By amount, over 65% of the funding comes from **competitive concurrence projects from Administrators from the Basque Autonomous Community**. (1.331.527,49 €).



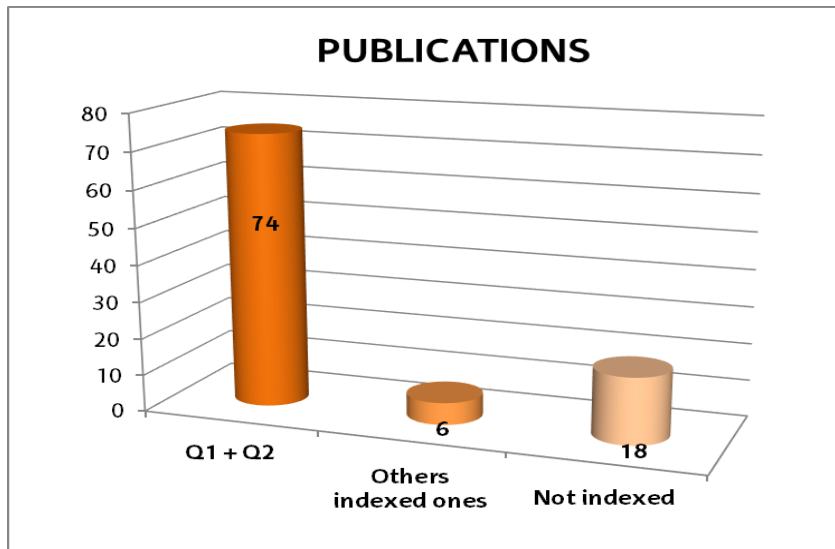
Regarding **contrats**, the groups entered 6 new contracts for a total amount of 126.753,77 €, most of them corresponds to administrations.



PUBLICATIONS AND PAPERS

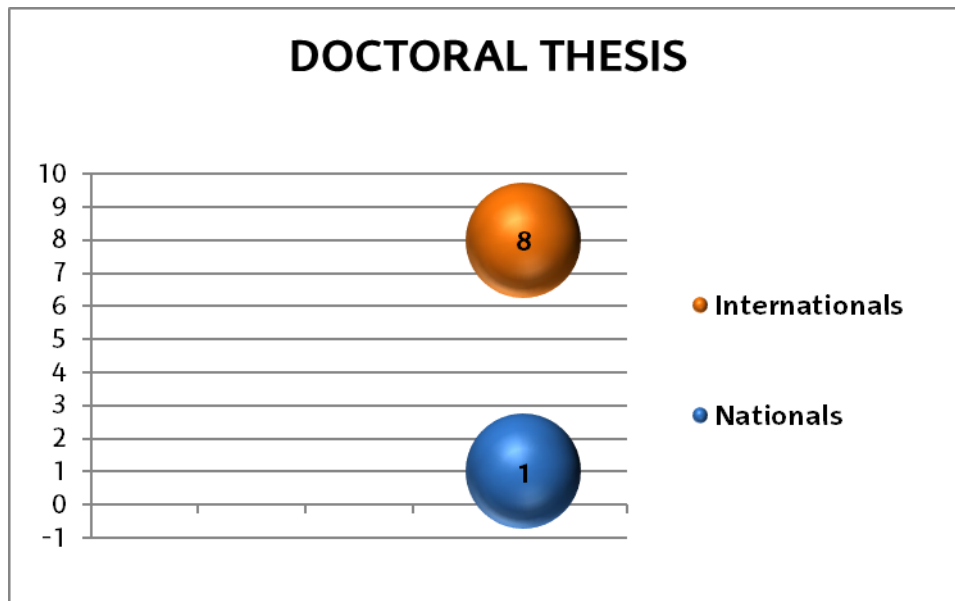
Publications in books or specialised magazines are one of the main indicators of excellent research. During the course of this year, a total of 98 publications have been carried out, and nearly 80% of those corresponds to indexed magazines; most of them belongs to the first quarter of this year.

PUBLICATIONS	NUMBER
Q1	52
Q2	22
Others indexed ones	6
Not indexed	18
TOTAL	98



DEFENDED DOCTORAL THESIS AND MASTERS DISSERTATIONS

In 2017 Lascaray groups submitted 9 doctoral thesis; 8 of those con calificación sobresaliente Cum Laude.



In academic year 2016-2017, 41 end-of-Master's projects were conducted by Centre researchers.

PARTNERSHIPS AND NETWORKS

One of the best ways to contribute to the research development is through organizational structures formed by several research agents. Lascaray Ikergunea research centre research groups are involved in a total of 116 structures, and almost half of them are in international forums.

Collaborations are on the increase and in 2017, 2 new structures were created.



NETWORKS		PARTNERSHIPS	
NATIONALS	INTERNATIONALS	NATIONALS	INTERNATIONALS
14	11	41	50

Regarding the type of collaboration in the Centre, there is a total of 25 networks, which provide access to world-wide research networks.

PATENTS

5 Research groups have 21 patents in force, 11 of those have been granted in Spain and 5 of them are undergoing international proceedings.

GROUP	NUMBER OF PATENTS	STATUS AND SCOPE
BIOMICS	6	1 licended in Spain 4 granted in Spain 1 internationally granted
Pharmacokinetics, Nanotechnology and Gene Therapy (PharmaNanoGene)	4	2 granted in Spain and being processed internationally 1 internationally granted 1 patent processed in Europe
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

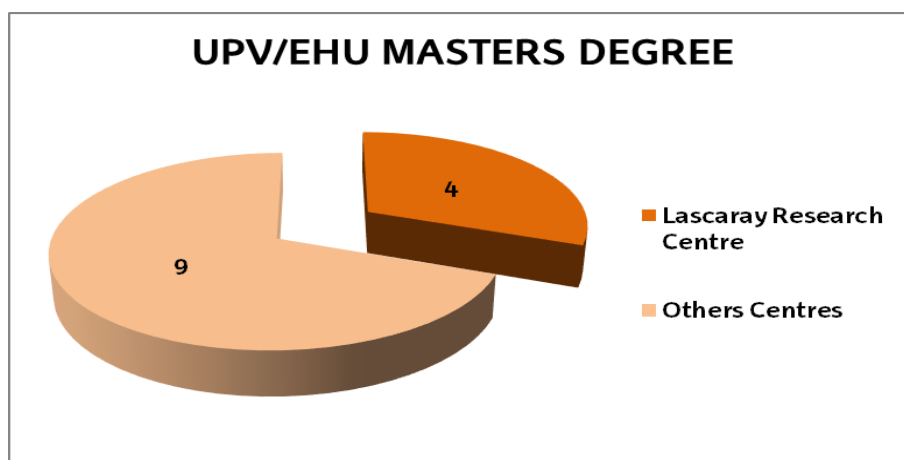


In the last academic year, the groups have taken part in 13 master degrees; and in four of them the person responsible belongs to a group within the building.

The Official Masters of the University of the Basque Country UPV/EHU have a teaching load of 60 ECTS credits, and in 2016-2017 a total of 229 students enrolled masters in which some Lascaray members took part.

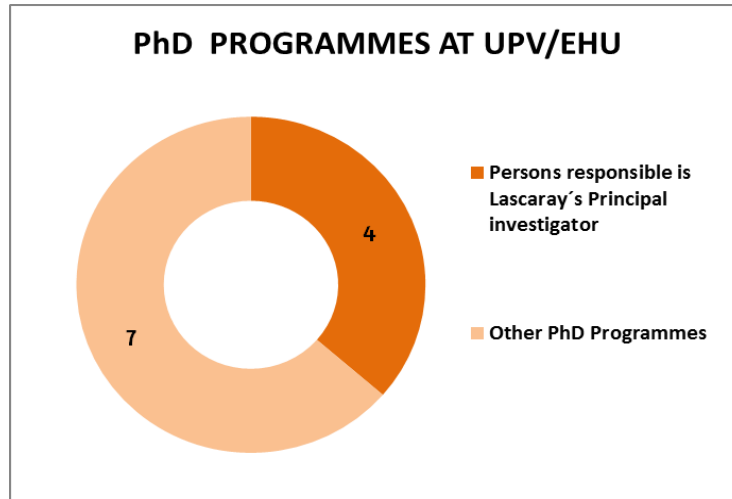
14 Lascaray researchers are members of Master Academic Commissions, and 4 of them actually chair them.

Out of the Masters taught in the University of the Basque Country UPV/EHU by Centre groups, over 30% of those are from Lascaray.



As for Doctorate courses, the groups take part in 13 programs and 4 of those are

managed by Lascaray Top Researchers. 448 students have enrolled these programmes.



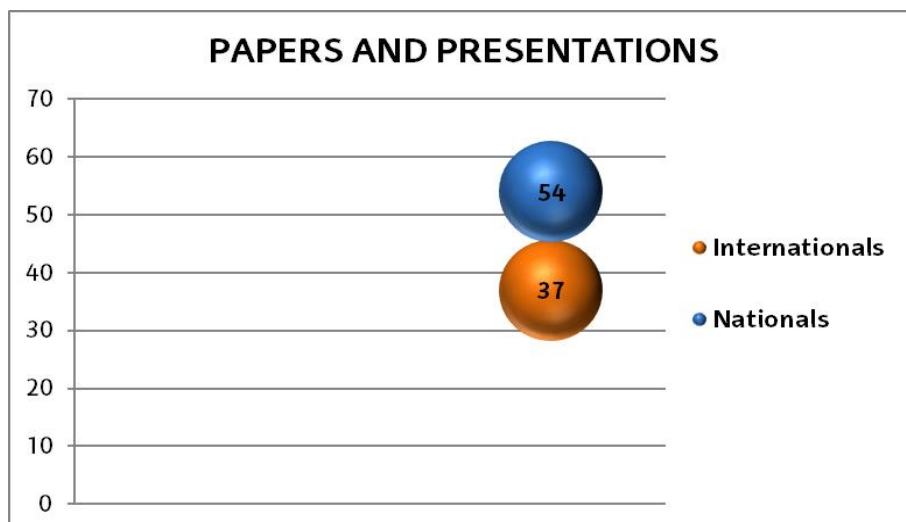
All information related to Masters and Doctoral Courses of the University of the Basque Country UPV/EHU is available at: <https://www.ehu.eus/en/web/mde/home>

CONGRESS ORGANISATION AND PAPERS AND PRESENTATIONS

The Centre research groups organised 6 conferences in 2017.



Besides, researchers contributed with numerous communications/papers in poster, oral and paper formats. In total, the members took part in 91 of them (mostly international).



PARTICIPATION IN COLLABORATIVE QUALITY CONTROL EXERCISES

2 groups have participated this year in collaborative quality control 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.	Spanish and Portuguese speaking group from the International Society for Forensic Genetics (GHEP-ISF)
Pharmacokinetics, Nanotechnology and Gene Therapy (PharmaNanoGene)	Begoña Calvo Hernáez: Member of the VERIFICA (ANECA). Comission regarding Bachelor and Master Degrees in the Health Sciences branch.	National Quality Assessment and Accreditation Agency / National Quality Assessment and Accreditation Agency
	Begoña Calvo: Referee of these journals: <ul style="list-style-type: none"> - Drug Safety - Drug Design, Development and Therapy - Current Medical Research Opinion - Pharmacoepidemiology and Drug Safety - Expert Opinion on Biological Therapy - Drug Discovery Today - Regulatory Toxicology & Pharmacology - Pharmaceutical Care (Spain) 	

AWARDS

Several groups have been awarded this year:

GROUP	AWARD	INSTITUTE/ISSUING BODY
BIOMICs	Miriam Baeta Bafalluy: Award to the best Emerging Researcher	OSI Bioaraba-UPV/EHU
Pharmacokinetics, Nanotechnology and Gene Therapy (PharmaNanoGene)	Award for best scientific communication. X National Conference on Pharmaceutical Care. Burgos, October, 2017.	Pharmaceutical Care Foundation, Spain
	VI Research Award for the Spanish Society of Pharmaceutics and Pharmaceutics Technology for their research work entitled " <i>Structural recovery of the retina in a retinoschisin-deficient mouse after gene replacement therapy by solid lipid nanoparticles</i> ".	Spanish Society of Pharmaceutics and Pharmaceutics Technology

Nutrition and Obesity	Recognition to María Puy Portillo: Honorary Member of the Spanish Academy of Nutrition and Dietetics.	Spanish Academy of Nutrition and Dietetics
	NAOS Strategy Award to Project: "Programme to promote the consumption of fruit and vegetables in the paediatric population (Phase II)" managed by PhD Víctor Rodríguez Rivera.	The Spanish Agency for Consumer Affairs, Food Safety and Nutrition (AECOSAN)
	Iñaki Milton Laskibar: Award to the best predoctoral student of the Alava Campus.	OSI Bioaraba-UPV/EHU

LASCARAY CENTRE'S **USERS**



RESEARCH GROUPS

BIOMICs

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

Group members:

- PI: Marian M. de Pancorbo Gomez. Professor of Cell Biology. marian.mdepancorbo@ehu.eus; 945014528
- Esther M. Rebato Ochoa. Professor of Biological Sciences esther.rebato@ehu.es
- 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.eus
- José Ángel Peña García. Tenured Lecturer of Animal Biology. joseangel.pena@ehu.eus
- Lourdes Basabe Desmots. Ikerbasque research. PhD in supramolecular Chemistry and Nanotechnology. lourdes.basabe@ehu.eus
- Jaime Algorta Pineda. PhD in Medicine. jaimе.algorta@ehu.eus
- Marta Arroyo Izaga. PhD in Pharmacy. marta.arroyo@ehu.eus
- Miriam Baeta Bafalluy. Hired researcher. PhD in Biology. mbaetab@gmail.com
- Jaione Etxebarria Elezgarai. Phd in Chemical Engineering. jaione.etxebarria@ehu.eus
- Leire Palencia Madrid. Graduate in Environmental Science. PhD student. leirepalencia@gmail.com

- Iker Alegría Lertxundi. Predoctoral fellow. Degree in Human Nutrition and Dietetics. lertxundi83@gmail.com
- Enrique Azuaje Hualde. Predoctoral fellow. Degree in Pharmacy. e.azuajehualde@gmail.com
- Alba Calatayud Sanchez. PhD student. Degree in Biotechnology. casalumalba@hotmail.com
- David Gamarra Fernández. Graduate in Environmental Science. PhD student davidgamarra@gmail.com
- Maite García. Predoctoral fellow. Degree in Genetics. mgar93@gmail.com
- Tamara Soledad Kleinbielen. Predoctoral student. Degree in Genetics. tamykleinbielen@gmail.com
- Nerea Telleria Aramburu. Predoctoral fellow. Degree in Human Nutrition and Dietetics. nerea_telleria@hotmail.com
- Patricia Villaescusa Urbaneja. Predoctoral fellow. Degree in Biochemistry. patricia.villaescusa@ehu.eus

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
- Mónica Gallego Muñoz. Tenured Lecturer of Physiology.
monica.gallego@ehu.es
- Victor Fernández López. Predoctoral fellow. Graduate in Biology.
victorpalazuelo@gmail.com
- Ainhoa Rodríguez de Yurre Guirao. Predoctoral fellow of Brazil Government
- Julian Zayas Arrabal. Predoctoral fellow. Degree in Biology.
julian.zayas@ehu.es

Lines of Research

- Cardiac electrical remodeling in most prevalent metabolic diseases: diabetes and hypothyroidism.
- Molecular and cellular mechanisms triggering cardiac arrhythmias.

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
- Ainhoa Ruiz Aracama. Associate Lecturer. PhD. ainhoa.ruiz@ehu.es
- María José Manzanos Arnaiz. Associate Lecturer PhD. mariajose.manzanos@ehu.es
- Andrea Martínez Yusta. Associate Lecturer. PhD. andrea.martinez@ehu.es
- María Luisa Ibargoitia Isasi-Isasmendi. Contract investigator staff. PhD. marialuisa.ibargoitia@ehu.es
- Natalia Prieto Vidal. Investigator PhD Staff. natalia.prieto@ehu.es
- Patricia Sopelana Garay. Investigator PhD staff. patricia.sopelana@ehu.es
- Barbara Nieva Echevarría. Temporary Lecturer. PhD. barbara.nieva@ehu.es
- Jon Alberdi Cedeño. Predoctoral fellow. jon.alberdi@ehu.es
- Sofia del Caño Ochoa. Predoctoral fellow. sofia.delcano@ehu.es
- Ana Maria San Martín Rubio. Predoctoral fellow. 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 (PharmaNanoGene)

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

Group members:

- PI: Alicia Rodríguez Gascón. Tenured Lecturer of Pharmacy and Pharmaceutical Technology. alicia.rodriiguez@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
- Josune Torrecilla Alzola. Contract Investigator. PhD in Biology, Development, Evaluation and Rational Use of Medicines doctoral programme. josune.torrecilla@ehu.es
- Helena Barrasa González. Predocotoral student. Degree in Medicine and Surgery. Specialist in Intensive Care Medicine. helenabarrasa@gmail.com
- Ion González Crespo. Predocotoral student. Degree in Pharmacy. ionglez.crespo@gmail.com
- Maitane Ibar Bariain. Predocotoral student. Degree in Pharmacy. Specialist in Hospital Pharmacy. maitane.ibar@gmail.com
- Yanire Llorens Villar. Predoctoral fellow. Degree in Pharmacy. Specialist in Hospital Pharmacy. yanire.llorens@ehu.es
- Amaia Soraluze. PhD student. Graduate in Pharmacy. amaiasoraluce@hotmail.com
- Monica Vicente Pascual. Hired Researcher Degree in Pharmacy. monica.vicente@ehu.es

Lines of Research

- Development of non-viral vectors for gene therapy.
- Development of nanoparticle systems for drug delivery.
- Pharmacokinetic/pharmacodynamic analysis in antibiotic therapy.

- Clinical pharmacokinetics of antimicrobial agents in critical patients.
- Pharmacotherapeutic evaluation of drugs. Pharmaceutical care.
- Legal regulation of biotech drugs.

Fluor-Phosphate Chemistry

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

Group members:

- PI: Francisco J. Palacios Gamba. Professor of Organic Chemistry. francisco.palacios@ehu.es; 945013103
- Edorta Martínez de Marigorta Izaga. Tenured Lecturer of Organic Chemistry. edorta.martinezdemarigorta@ehu.es
- Ana María Ochoa de Retana Mendibil. Tenured Lecturer of Organic Chemistry. anamaria.ochoaderetana@ehu.es
- María Gloria Rubiales Alcaine. Tenured Lecturer of Organic Chemistry. gloria.rubiales@ehu.es
- María Fuertes Sánchez. Temporary staff. PhD in Pharmacy. maria.fuertes@ehu.es
- Javier Vicario Hernando. Ramón y Cajal Investigator. PhD in Chemistry. javier.vicario@ehu.es
- Concepción Alonso Pérez. Contract Investigator. PhD in Chemistry. concepcion.alonso@ehu.es
- Jesús M. de los Santos Ruiz. Contract Investigator. PhD in Chemistry. jesus.delossantos@ehu.es
- Zhouair es Sbai. Ikertzaile kontratatua. Contract Investigator. Graduate in Pharmacy. zouhair.essbai@ehu.es

- Maria González Sáenz. Predoctoral fellow. Graduate in Chemistry. maria.gonzalezs@ehu.eus

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.

Lactiker - Quality and Safety of Foods of Animal Origin

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

Group members:

- PI: Luis Javier R. Barron. Professor of Food Technology. luisjavier.rbarron@ehu.eus; 945013082
- Marta Maria Albisu Aguado. Tenured Lecturer of Nutrition and Food Science. marta.albisu@ehu.eus
- Ana Isabel Najera Ortigosa. Tenured Lecturer of Food Technology. anaisabel.najera@ehu.eus
- Francisco José Pérez Elortondo. Tenured Lecturer of Nutrition and Food Science. franciscojose.perez@ehu.eus
- Maria Dolores Virto Lecuona. Tenured Lecturer of Biochemistry and Molecular Biology. mailo.virto@ehu.eus
- Iñaki Etaio Alonso. Assistant Lecturer. Tenured Lecturer of Food Technology. inaki.etaio@ehu.eus

- Juan Carlos Ruiz de Gordoia Arroniz. Tenured Lecturer of Biochemistry and Molecular Biology. juancarlos.ruizdegordoa@ehu.eus
- Gustavo Amores Olazaguirre. Tenured Lecturer of Biochemistry and Molecular Biology. gustavo.amores@ehu.eus
- Maria Ángeles Bustamante Gallego. Tenured Lecturer of Nutrition and Food Science. marian.bustamante@ehu.eus
- Noelia Aldai Elkoro-Iribe. Permanent staff. PhD in Food Technology. noelia.aldai@ehu.eus
- Igor Hernández Ochoa. Temporary staff. PhD in Science and Food Technology. igor.hernandezo@ehu.eus
- Lara Morán Lobato. Hired PhD researcher. PhD in Biology. lara.moran@ehu.eus
- Xabier Belaunzaran Jauregi. Predoctoral fellow. xabier.belaunzaran@ehu.eus
- Leire Bravo Lamas. Predoctoral fellow. leire.bravo@ehu.eus
- Laura Zabaleta Unanue. Predoctoral fellow. laura.zabaleta@ehu.eus
- Ane Aldalur Soto. Predoctoral Researcher. Degree in Food Science and Technology. Training Fellow of the Education Department of the Basque Government. ane.aldalu@ehu.eus
- Claudia Fuente García. Degree in Science and Food Technology. Technologist. Training Fellow of the Agriculture Department of the Basque Government. claudia.fuente@ehu.eus
- Lorea Rivera Beldarrain. Fellow in Technologist Training. Degree in Chemistry. lrivera002@ikasle.ehu.eus

Lines of Research

- Sustainability and food production systems from animal origin with special interest in grazing systems.
- Evaluation and production of high-quality meat: nutritional and sensory characterisation and identification of meat quality genetic markers.
- Characterisation of products of animal origin coming from grazing: quality, traceability and authentication of products.
- Optimisation and tuning of food sensory analysis methods: relation among sensory properties, composition and processing technologies.
- Sustainability of cheese production in small rural cheese factories: improvement of cheese performance and management of produced whey.
- Characterisation of sensory defects in cheese: identification of causes and development of commercial solutions.
- Research on technologies and optimal preservation conditions to extend the commercial life of matured cheese.

METABOLOMIPs

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

Group members:

- PI: Ramón J. Barrio Diez-Caballero. Professor of Analytical Chemistry. r.barrio@ehu.eus; 945013055
- Maria Aranzazu Goicolea Altuna. Professor of Analytical Chemistry. mariaaranzazu.goicolea@ehu.eus
- Alberto Gómez Caballero. Associate Lecturer. PhD. a.gomez@ehu.eus
- Nora Unceta Zaballa. Associate Lecturer. PhD. nora.unceta@ehu.eus
- Asier Vallejo Ruiz. Associate Lecturer. PhD. asier.vallejo@ehu.eus

- Deiene García Mutio. Contract Investigator. PhD in Environmental Science. deiene14@hotmail.com
- Sandra Benito Cid. Hired post-doctoral fellow. sandra.benito@ehu.eus
- Jaime Egea. Predoctoral fellow. jaumes6666@gmail.com
- Cristina Olavarrieta. Predoctoral fellow. cristynaolavarrieta@gmail.com

Lines of Research

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

NanoBioCel

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

Group members:

- PI: José Luis Pedraz Muñoz. Professor of Pharmaceutical Technology. jose Luis.pedraz@ehu.eus; 945013091
- Rosa María Hernández. Professor of Pharmaceutical Technology. rosa.hernandez@ehu.eus
- Manoli Igartua Olaechea. Tenured Lecturer of Pharmacy and Pharmaceutical Technology. manoli.igartua@ehu.eus
- Gorka Orive Arroyo. Tenured Lecturer of Pharmacy and Pharmaceutical Technology. gorka.orive@ehu.eus

- Amaia Esquisabel Alegría. Associate Lecturer. PhD in Pharmacy.
amaia.esquisabel@ehu.eus

- Jon Zarate Sesma. Associate Lecturer. PhD in Pharmacy.
jon.zarate@ehu.eus

- Gustavo Puras Ochoa. Assistant Lecturer. PhD in Pharmacy.
gustavo.puras@ehu.eus

- Laura Sáenz del Burgo. Temporary staff. PhD in Pharmacy.
laura.saenzdelburgo@ehu.eus

- Aiala Salvador Martinez. Temporary staff. PhD in Pharmacy.
aiala.salvador@ehu.eus

- Edorta Santos Vizcaíno. Contract Investigator. PhD in Pharmacy.
edorta.santos@ehu.eus

- Jesús Ciriza Astrain. CIBER BBN Investigator. PhD in Genetics and
Development. jesus_ciriza001@ehu.eus

- Peio Sánchez. EUSKOIKER Contract. Graduate in Biology.
pello.sanchez1@gmail.com

- Iliia Bilate Beitia. Predoctoral fellow. Degree in Pharmacy.
aneilia.villate@ehu.eus

- Alberto Cañibano Hernández. Predoctoral student. Degree in
Biology. albertocanibano@gmail.com

- Maria del Carmen Echave Otaño. Predoctoral student. Degree in
Pharmacy. mariadelcarmen.echave@ehu.eus

- Albert Espona Noguera. Degree in Biotechnology.
albertesponanoguera@gmail.com

- Itxaso Garcia Orue. Predoctoral fellow. Degree in Pharmacy.
igarcia251@ikasle.ehu.eus

- Ainhoa Gonzalez Pujana. Predoctoral fellow. Degree in Pharmacy.
ainhoa.gonzalez@ehu.eus

- Haritz Gurrutxaga Iribar. Predoctoral fellow. Degree in Pharmacy.
haritz.g.i@gmail.com

- Beatriz Hernáez Estrada. Predoctoral student. Degree in Pharmacy. bhernaezestrada@gmail.com
- Sara Hernando Revilla. Predoctoral student. Degree in Pharmacy. sara.hernando@ehu.eus
- Amaia Huguet Casquero. Predoctoral student. Degree in Pharmacy. amaia.huguet@biosasun.eu
- Ahmed Khalaf Reyad Raslan. Chemist. drrayad@gmail.com
- Tania López Méndez. Predoctoral fellow. Graduate in Pharmacy. tblopez01@gmail.com
- Claudia Vairo. Predoctoral fellow. Degree in Pharmacy. claudiavairo@hotmail.it

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>

Group members:

- PI: Joan Sallés Alvira. Tenured Lecturer of Pharmacology. joan.salles@ehu.es; 945013113
- Gontzal García del Caño. Giza Tenured Lecturer of Human Anatomy and Embryology. gontzal.garcia@ehu.es
- Sergio Barrondo Lakarra. Assistant Lecturer. PhD in Pharmacy. sergio.barrondo@ehu.es
- Maider López de Jesús. Associate Lecturer. PhD in Pharmacy. maider.lopez@ehu.es
- Imanol González Burguera. Hired post-doctoral fellow. PhD in Chemical Sciences. imanol.gonzalezb@ehu.es
- Xabier Arechabala Rodríguez. Investigator in training. Graduate in Pharmacy.
- Miquel Saumell Esnaola. Predoctoral fellow. Degree in Pharmacy. miquel.saumell@ehu.es
- Amaia Isasti Iribar. Training predoctoral fellow. Degree in Pharmacy. amaia.isasti@ehu.es

Lines of Research

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

- PI: María Puy Portillo Baquedano. Professor of Nutrition and Food Science. mariapuy.portillo@ehu.eus; 945013067
- Alfredo Fernández Quintela. Tenured Lecturer of Nutrition and Food Science. alfredo.fernandez@ehu.eus
- María Teresa Macarulla Arenaza. Tenured Lecturer of Nutrition and Food Science. mariateresa.macarulla@ehu.eus
- Edurne Simón Magro. Tenured Lecturer of Nutrition and Food Science. edurne.simon@ehu.eus
- Itziar Txurruka Ortega. Tenured Lecturer of Nutrition and Food Science. itziar.txurruka@ehu.eus
- Víctor Manuel Rodríguez. Associate Lecturer. PhD in Human Nutrition and Dietetics and Food Science and Technology. bittor.rodriguez@ehu.eus
- Arrate Lasa Elgezua. Associate Lecturer. PhD in Human Nutrition and Dietetics and Food Science and Technology. arrate.lasa@ehu.eus
- Jonatan Miranda Gómez. Assistant Lecturer. PhD in Pharmacy. jonatan.miranda@ehu.eus
- Leixuri Aguirre. Contract Investigator. Graduate in Human Nutrition and Dietetics and Food Science and Technology. leixuri.aguirre@ehu.eus
- Noemí Arias Rueda. Postdoctoral Contract. Degree in Pharmacy. noemi.arias@ehu.eus
- Itziar Eseberri Barace. Part-time substitute Lecturer. Graduate in Human Nutrition and Dietetics. itziar.eserberri@ehu.eus

- Esperanza Ilnes. CIBEROBN postdoctoral contract. Degree in Biotechnology. PhD in Bioengineering. irlesvidal.esperanza@gmail.com
- Saioa Gómez Zorita. CIBEROBN postdoctoral contract. Graduate in Pharmacy. saioa86@hotmail.com
- Jennifer Trepiana. Postdoctoral contract charged to subsidy of Basque Country Groups. PhD in Biological Sciences. jenifer_trepiana88@hotmail.com
- María Arrizabalaga López. Predoctoral fellow. Degree in Human Nutrition and Dietetics. maria.arrizabalaga@ehu.eus
- Iñaki Milton Laskibar. Predoctoral fellow. Degree in Human Nutrition and Dietetics. inaki.milton@ehu.eus
- Andrea Mosqueda Solís. Predoctoral fellow. (CONACYT, México). Graduate in Nutrition and welfare care. andreamosqueda.s@gmail.com
- Asier Leniz. Predoctoral student. Degree in Human Nutrition and Dietetics. asier.leniz@gmail.com
- Natalia Romo. Predoctoral student. Graduate in Human Nutrition and Dietetics. nataliaromo_111@hotmail.com

Lines of Research

- Functional ingredients and obesity.
- Functional ingredients and fatty liver.
- Functional ingredients and diabetes mellitus.
- Mediterranean Diet and Health.
- Childhood Obesity.
- Epigenetics: markers of obesity and fatty liver.
- Assessment of dietary habits and nutritional status of population groups.

- Assessment of gluten in foods. Accredited laboratory.
- Identification of possible predictors of susceptibility to the development of diseases.

Parasitology and Immunoallergy

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

Group members:

- PI: Jorge Martínez Quesada. Tenured Lecturer of Parasitology. jorge.martinez@ehu.es; 945013804.
- Ester Suñén Pardo. Tenured Lecturer of Microbiology. ester.sunen@ehu.es
- Idoia Postigo Resa. Permanent staff. PhD in Biology. idoia.postigo@ehu.es
- Ainara Velez del Burgo. Investigator in training. Graduate in Pharmacy. avelezdelburgo@gmail.com

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/>

Group members:

- PI: Benjamin J. Gómez Moliner. Professor of Zoology.
benjamin.gomez@ehu.eus; 945013044
- Carlos E. Prieto Sierra. Tenured Lecturer of Animal Biology.
carlos.prieto@ehu.eus
- Mikel Gurrutxaga. Temporary staff. PhD in Environmental Science.
mikel.gurrutxaga@ehu.eus
- Ana Isabel Puente Martínez. Temporary staff. PhD in Biology.
ana.puente@ehu.eus
- Luis Javier Chueca Simón. PhD in Environmental Science.
ljchueca001@gmail.com
- Maria José Madeira García. Contract Investigator. PhD in Biology.
mariajose.madeira@ehu.eus
- Aritz Ruiz González. Contract Investigator. PhD in Environmental Science.
arg.salinas@gmail.com
- Xabier Cabodevilla Bravo. Predoctoral fellow. Graduate in Environmental Science.
xabier.cabodevilla@ehu.eus
- Amaia Caro Aramendia. Predoctoral fellow. Graduate in Environmental Science.
amaia.caro@ehu.eus
- Eder Somoza Valdeolmillos. Predoctoral fellow. Graduate in Environmental Science.
eder.somoza@ehu.eus
- María Vergara Rosa. Predoctoral fellow. Graduate in Environmental Science.
m1v2r3@hotmail.com

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 Responsible: Marian M. de Pancorbo Gomez.
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.
franciscojose.perez@ehu.es

Personal:

Maria Del Pilar Fernandez Gil. mariadelpilar.fernandez@ehu.es

Monica Ojeda Atxiaga. 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.eus/en/web/sgiker/arabako-analisirako-zerbitzu-zentrala-aurkezpena>

Scientific Responsible: Ramón Barrio Diez-Caballero. r.barrio@ehu.es

SGIker Technician:

Maria Carmen Sampedro Yangüela. mariacarmen.sampedro@ehu.es

Alicia Sánchez Ortega. 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>

Scientific Responsible: Francisco Palacios Gamba. francisco.palacios@ehu.es

Responsible: Edorta Martínez de Marigorta Izaga.
edorta.martinezdemarigorta@ehu.es

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-scsigct/es/contenidos/informacion/sgiker_cartografia/es_cartogra/presentacion.html

Principal investigator: Luis Eguiluz Alarcón luis.eguiluz@ehu.es

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.es/en/web/sgiker/content/-/asset_publisher/ZcG4/content/info_laboratorionivel3?redirect=http%3A%2F%2Fwww.ehu.es%2Fen%2Fweb%2Fsgiker%2Fhome%3Fp_p_id%3D101_INSTANCE_8WTj%26p_p_lifecycle%3D0%26p_p_state%3Dnormal%26p_p_mode%3Dview%26p_p_col_id%3Dcolumn-2%26p_p_col_count%3D3

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

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

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/EHU on: <https://www.ehu.eus/en/web/sgiker/home>

INIZIA BUSINESS INCUBATOR

Throughout 2017, companies [BAIGENE](#), [i+Med](#) and [UN-diet](#) ended their stay at the INIZIA business incubator to continue their journey in other locations within the territory. On 30th of November, taking advantage of the awards ceremony of the VII awards edition, a tribute to the three companies was paid to thank them for their stay in the business incubator for those four years



By the end of 2017, two companies, Karuna GoodCells Technologies and Gastheiz Bihotzean came to the business incubator as well as the pre-incubation project Lycolab. All companies located in the business incubator are distinguished by their marked technological nature, by having links to the UPV/EHU research groups and by being projects to be developed and consolidated in Alava.

KARUNA GOODCELLS TECHNOLOGIES, S.L



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

GASTHEIZ BIHOTZEAN



<https://gastheiz.com/>

Marketing of Gastheiz, potato beer from Alava. It is really not potato beer, it is meant to be a tribute as Gastheiz is a symbol of pride to be from Alava, a trophy for beer lovers to be able to toast and share the essence of Vitoria with the rest of the world.

LYCOLAB



<http://lycolab.com/>

A project that lyophilises snail slime and turns it into Lyophilized SCA, a dry stable extract from autochthonous snails (*Helix aspersa*), for domestic use, free from preservatives and stabilisers.

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, Tecalia 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

- 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/>