

LASCARAY RESEARCH CENTRE

SCIENTIFIC ACTIVITY REPORT

2013



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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 Dr Marian M. de Pancorbo, her contact address is marian.mdepancorbo@ehu.es

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 Lascares 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.es/lascarayikergunea or www.ehu.es – 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

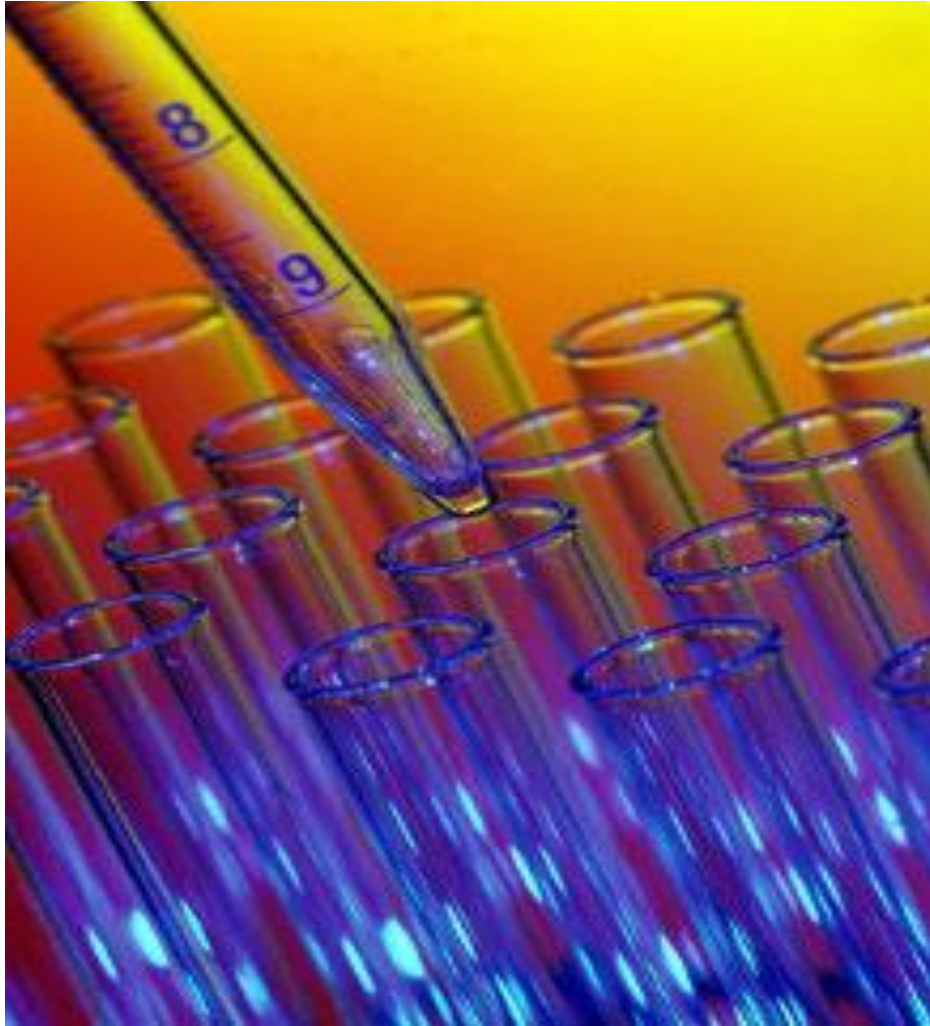
- Scientific and innovative capacity
- Commitment
- Cooperation
- Trust
- Critical Spirit
- Innovation and sustainability
- Social responsibility
- Scientific rigor
- Excellence

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.



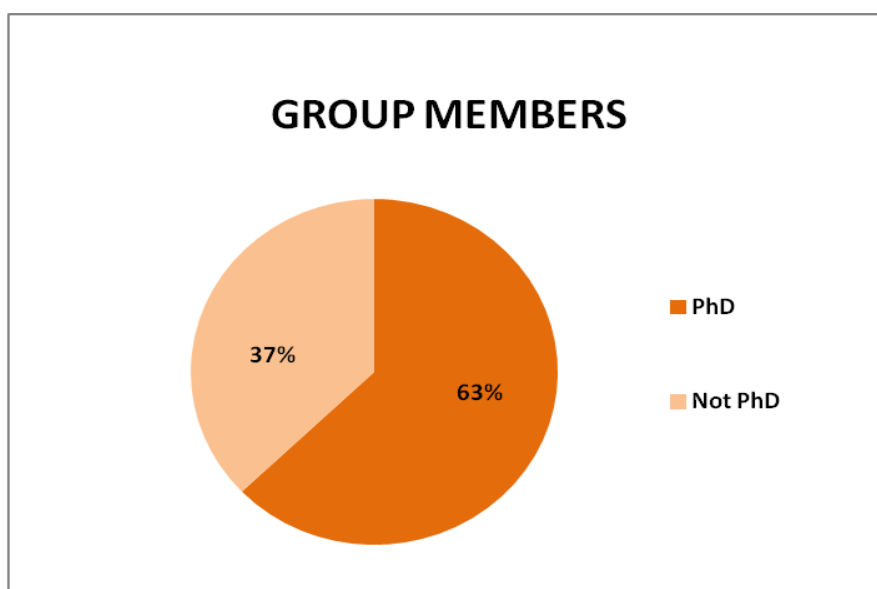
LASCARAY IN FIGURES



GROUP MEMBERS

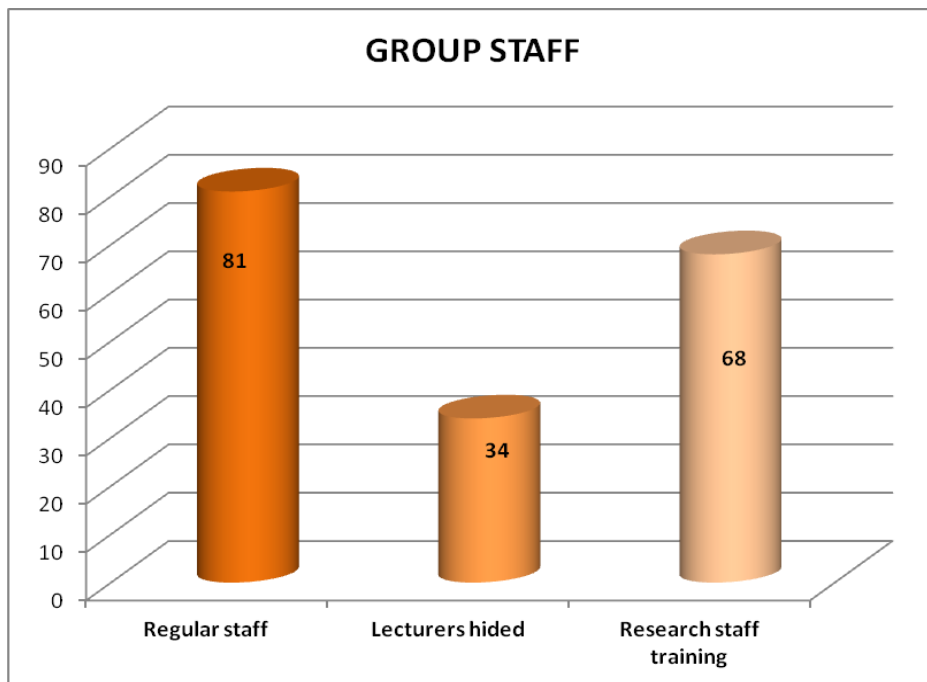


The Centre hosts a total of 16 research groups and 183 investigators; the Basque Government has recognized the research groups.



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

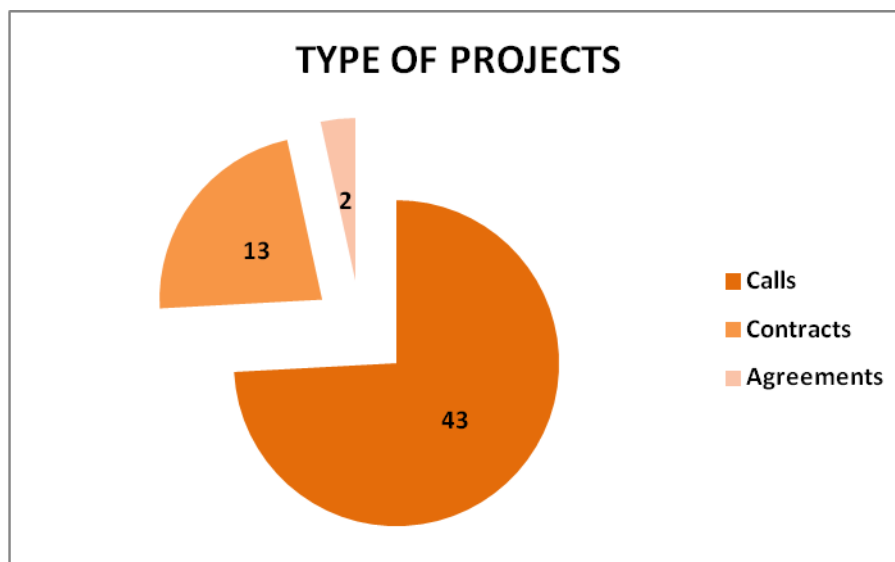
Staff on the UPV/EHU payroll (Professor Staff and Tenured Faculty), Contract PhD Staff (Ramon y Cajal, Ikerbasque Programmes and Juan de la Cierva, temporary staff, other PhD-research staff) and Research Staff in Training (predoctoral and/or fellows).



PROJECTS

Types of projects according to the sources of funding

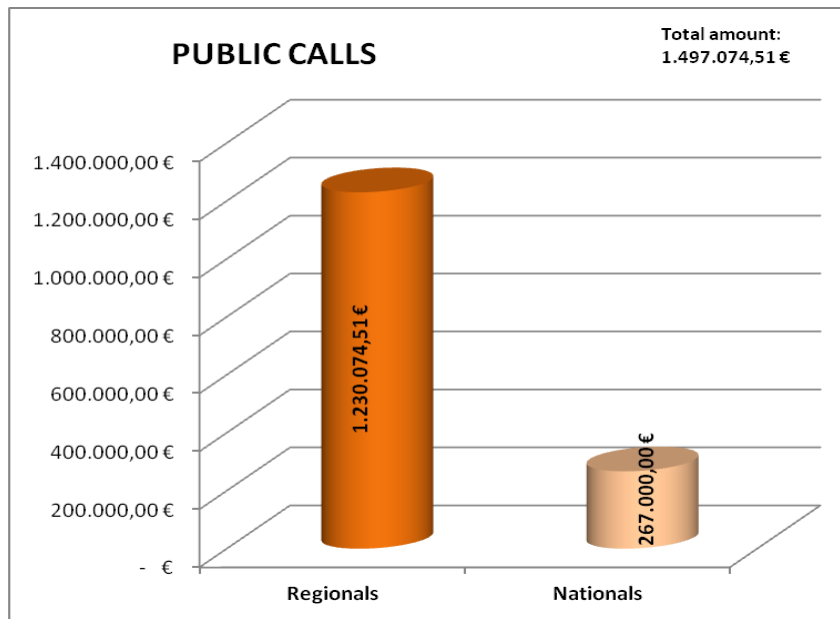
In 2013 the Centre Groups launched 58 projects, which secured funding through Tenders, Contracts and Agreements.



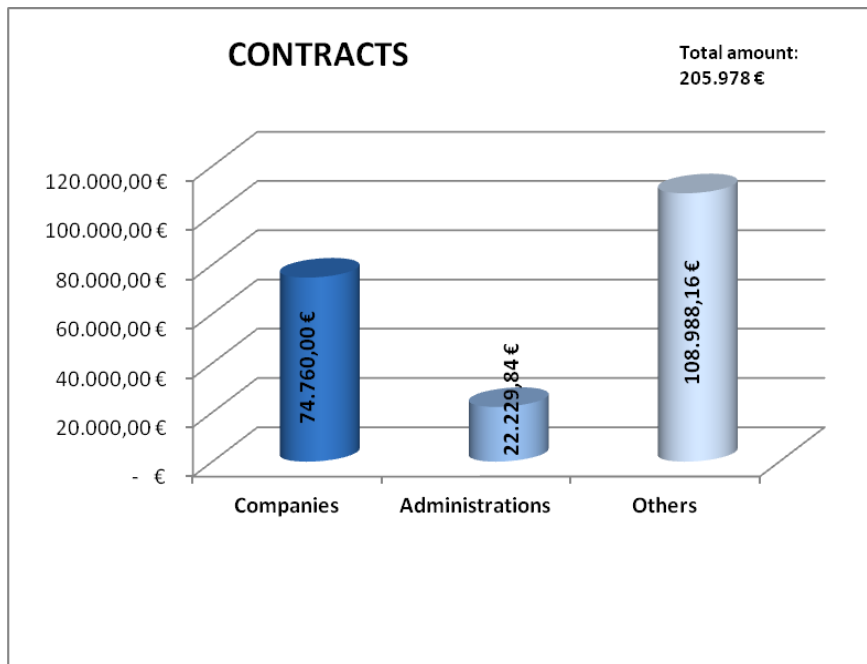
Projects classified by amount

The overall funding achieved by the research groups during 2013 was € 1,727,506.51.

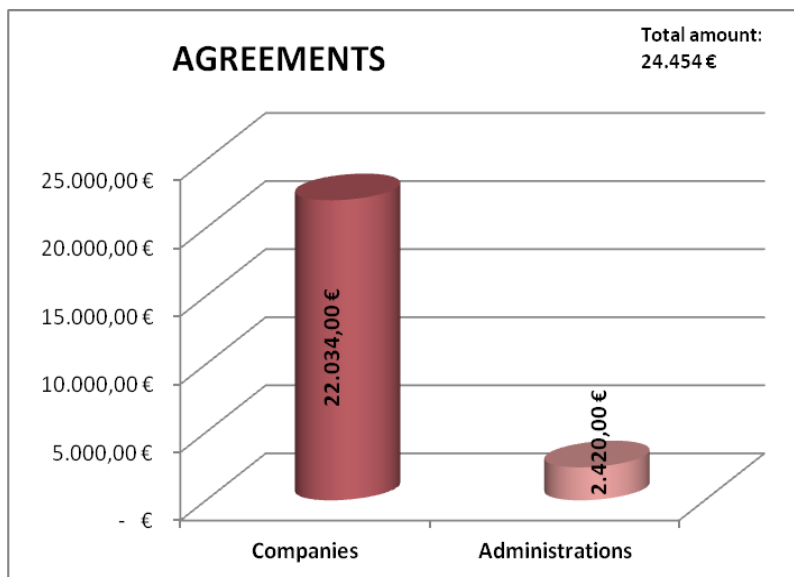
By type of **projects in competitive calls**, almost 87% of the funding source comes from public Tenders of which 82% are from regional administrations.



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



Finally, 90% of the **agreements** signed by the Centre's Research Groups have been with companies.

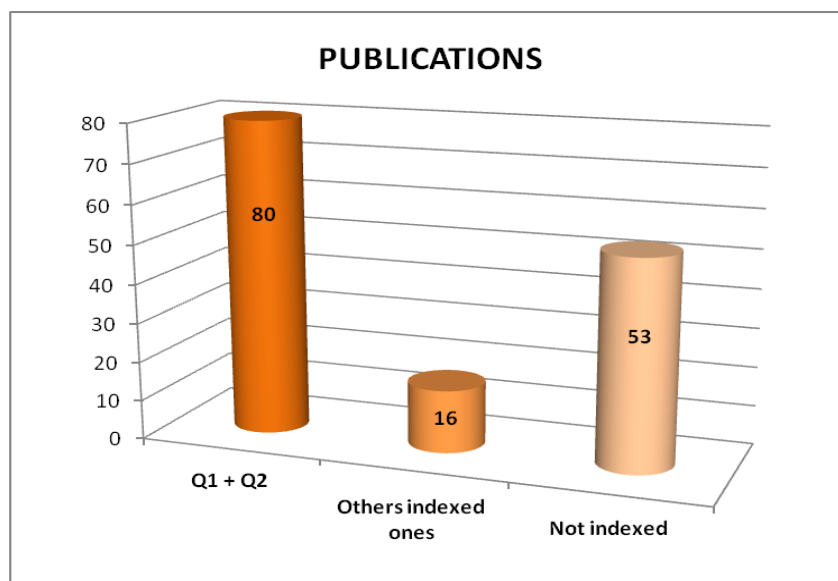


PUBLICATIONS AND PAPERS



Publications in books or journals are one of the most important for indicators assessing research excellence. During this year, the groups have participated in 149 publications, of which almost 65% were indexed journals.

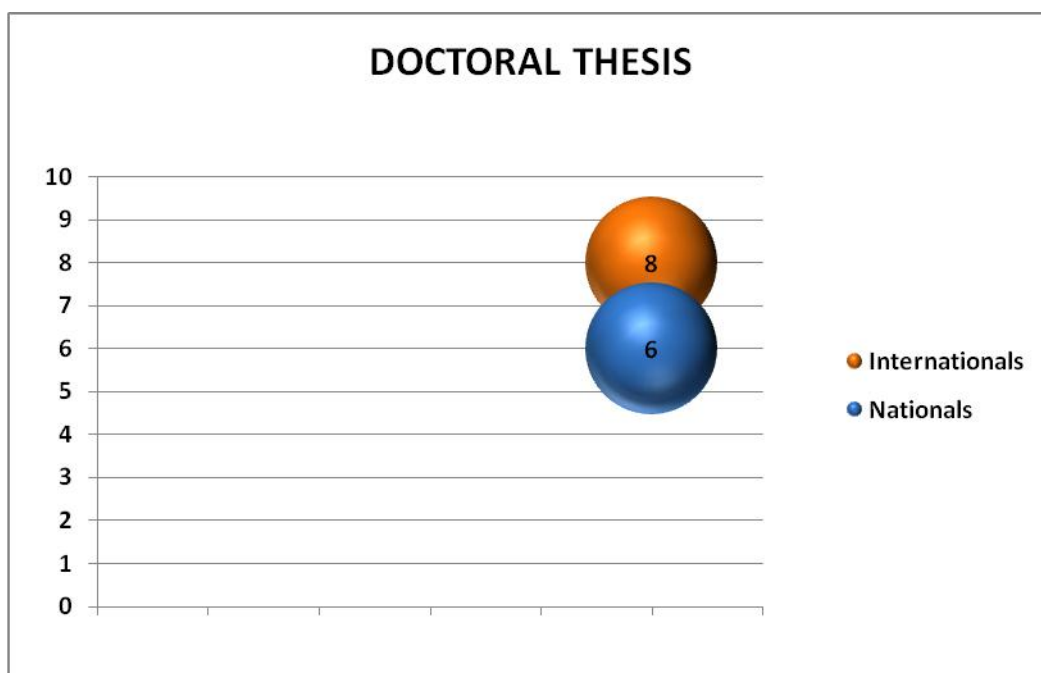
PUBLICATIONS	NUMBER
Q1	56
Q2	24
Others indexed ones	16
Not indexed	53
TOTAL	149



Not indexed publications refer mostly to books or book chapters.

DEFENDED DOCTORAL THESIS

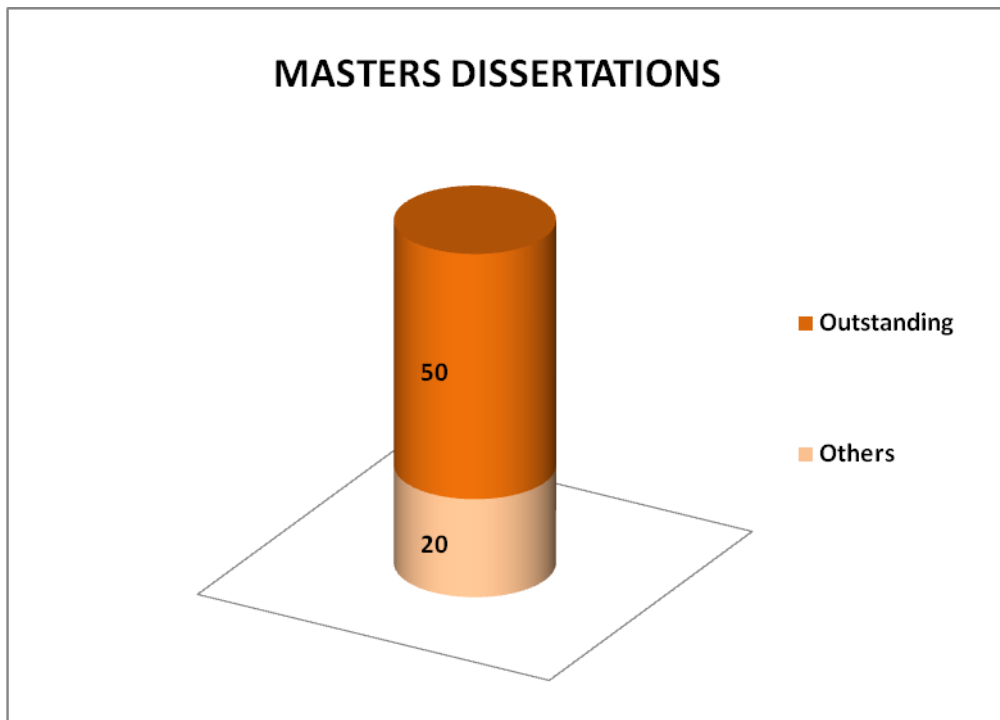
During 2013, Lascaray Groups completed 14 doctoral theses, and almost half were international.



MASTERS DISSERTATIONS



During the 2012-2013 academic year, 70 Master's Degree Final Works were completed, led by investigators at the Centre, and 50 of them were rated Outstanding.



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 42 structures, and almost half of them are in international forums.



NETWORKS		PARTNERSHIPS	
NATIONALS	INTERNATIONALS	NATIONALS	INTERNATIONALS
11	18	34	24

As for the type of collaborations throughout the Centre, there are a total of 29 networks providing access to global research networks.

PATENTS



Research Groups have 21 patents in force, 13 of them are granted in Spain, and 3 of them have international patents.

BIOMICs

- Method for obtaining genetic profile of an individual. (Granted in Spain, 2010) (P201031269)
- Device for the traceability of biological samples and tracing method for the same. (Granted in Spain, 2010)
- Method for obtaining genetic profile of an individual. (Granted in Spain, 2010) (P201031270)
- Device for the traceability of biological samples and tracing method for the same. (International Granted 2010)
- Method for obtaining genetic profile of an individual. (Granted in Spain, 2011) (P201132133)

Pharmacokinetics, Nanotechnology and Gene Therapy

- Lipid nanoparticles for gene therapy. (Granted in Spain, 2010; pending international patent, 2011)
- Lipid nanoparticles for the treatment of ocular diseases. (Granted in Spain, 2011)

Molecular Microbiology and Genomics

- Rapid detection of viable cells of Salmonella in food by Real-time PCR. (International patent 2008)
- Pharmaceutical compositions for treating metastasis (Granted in Spain, 2009)
- Monoclonal antibody specific for antigen H: 1.2 of Salmonella enterica serotype Typhimurium with cross-reactivity with Salmonella enterica serotype 4,5,12:i-, producer cell line, and its use. (National) (P200700625)
- Methods and reagents for the detection of Salmonella sp. (International License 2013) (P3640)
- Methods and reagents for detection of Aspergillus sp. (Granted in Spain-2013) (ES-2399862_B1)

NanoBioCel

- Use of microparticles for vaccines and the release of biologically active molecules. (Granted in Spain, 2011)
- Lipid nanoparticles for gene therapy. (Granted in Spain, 2011)
- Nanoparticles for the treatment of ocular diseases. (Granted in Spain, 2009)
- Treatment of neurodegenerative diseases by means of the use of microparticles comprising genetically modified cells. (Granted in Spain, 2010)
- Biodegradable bionanoparticles to release the GSE24-2 peptide, preparation and utilization process. (Requested in Spain-2013) (P2013300131)
- Polycyclic lipid nanoparticle (Requested for in Europe-2013) (EP13382268.4)
- Lipid nanoparticles for wound healing (Requested in Europe-2013) (EP13382275.9)

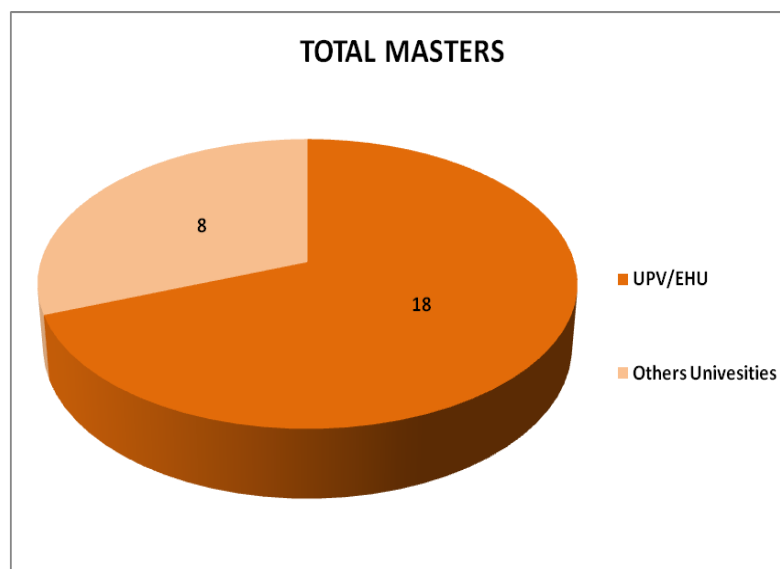
Nutrition and Obesity

- Anti-obesity effects of pterostilbene. (International patent, 2012). Company that operates: ChromaDex
- Composition and uses in thermogenesis activation. (Granted in Spain-2013)

MASTERS DEGREE ORGANISATION

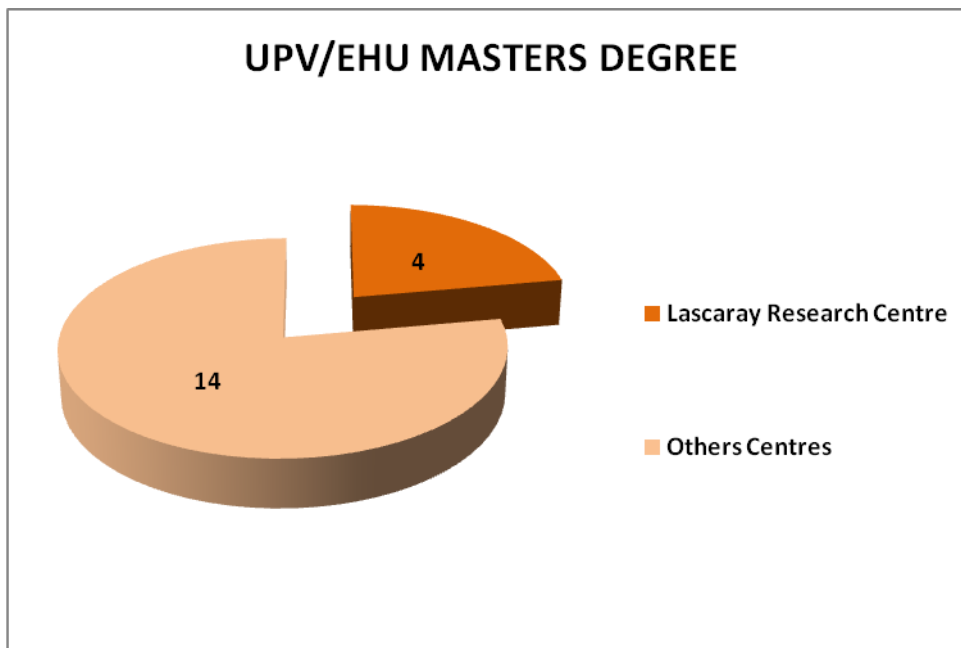


During the last academic year, groups are participating in 26 Masters degrees, of which 70% are official Masters of the UPV/EHU.



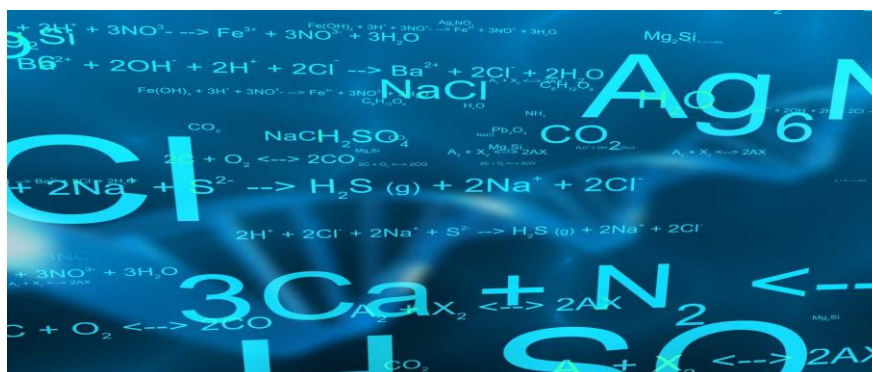
Each of the Masters Programmes has a workload of 60 ECTS credits, and Centre's members teach a total of 434 students. It is also important to note that four investigators from the Groups of the Centre run these masters programmes.

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

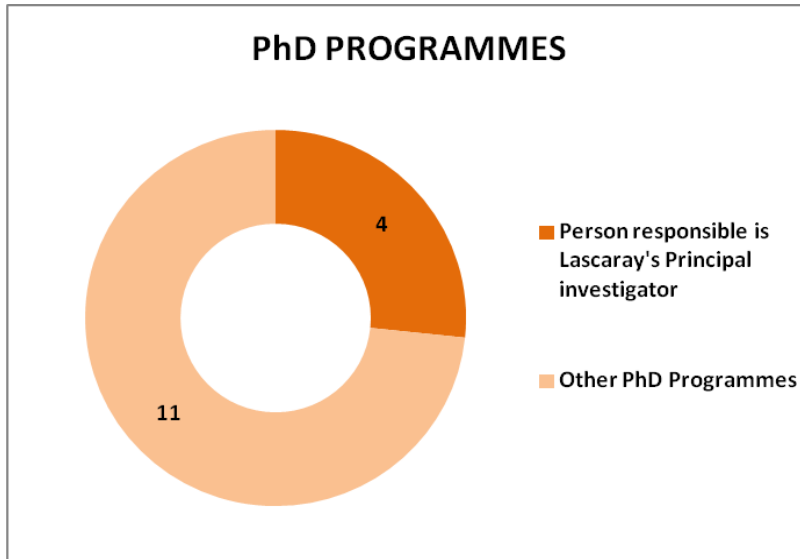


Furthermore, of the 18 official master of the UPV/EHU, 13 Lascaray investigators are members of the Academic Committees.

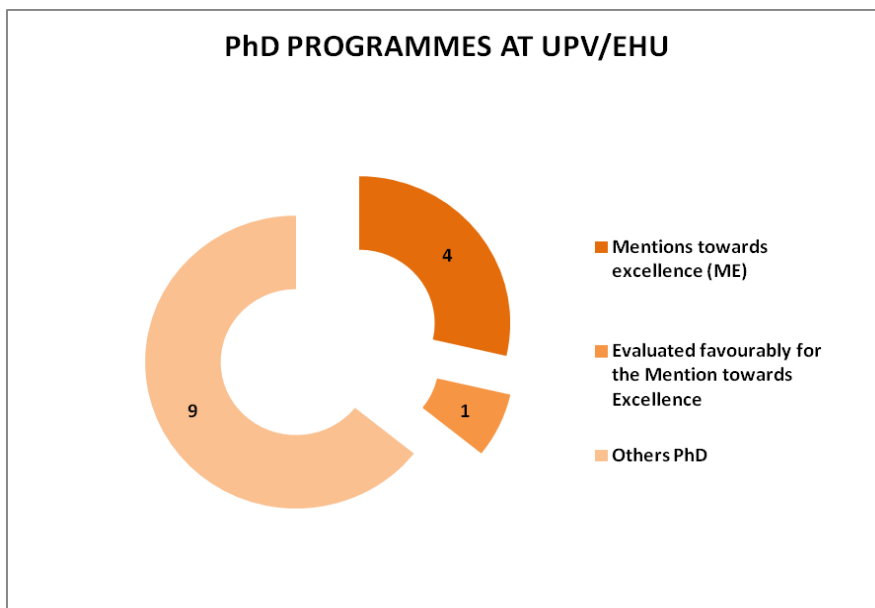
All information on Masters and PhD degrees at the UPV/EHU is available at: <http://www.mde.ehu.es/p311-home/es/>



As for PhDs, groups participate in 15 programmes; in 4 of them, the PhD administrators are Principal Investigators at Lascaray. A total of 14 investigators from the Centre are academic committee members.

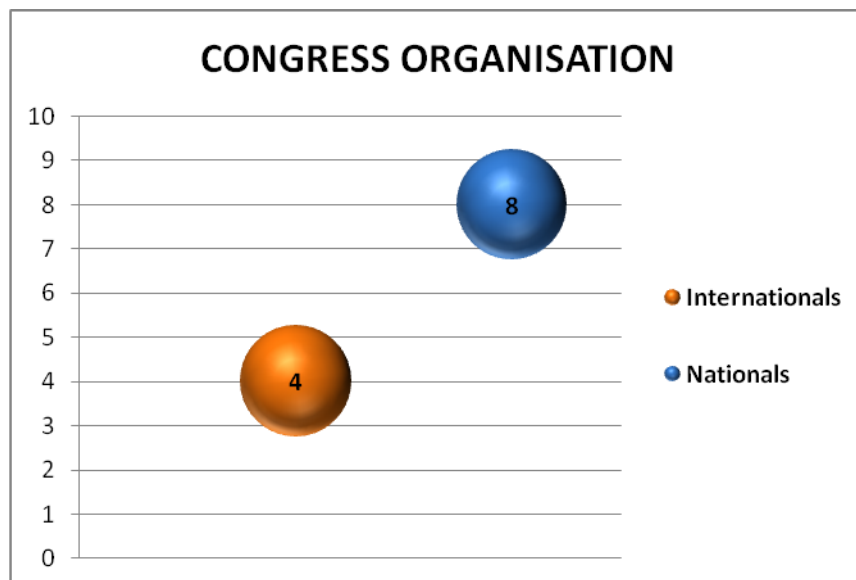


Several of the PhD programmes at UPV/EHU have received the distinction of Mention towards Excellence (ME) or are evaluated favourably for the Mention towards Excellence by the Ministry of Education.



CONGRESS ORGANISATION

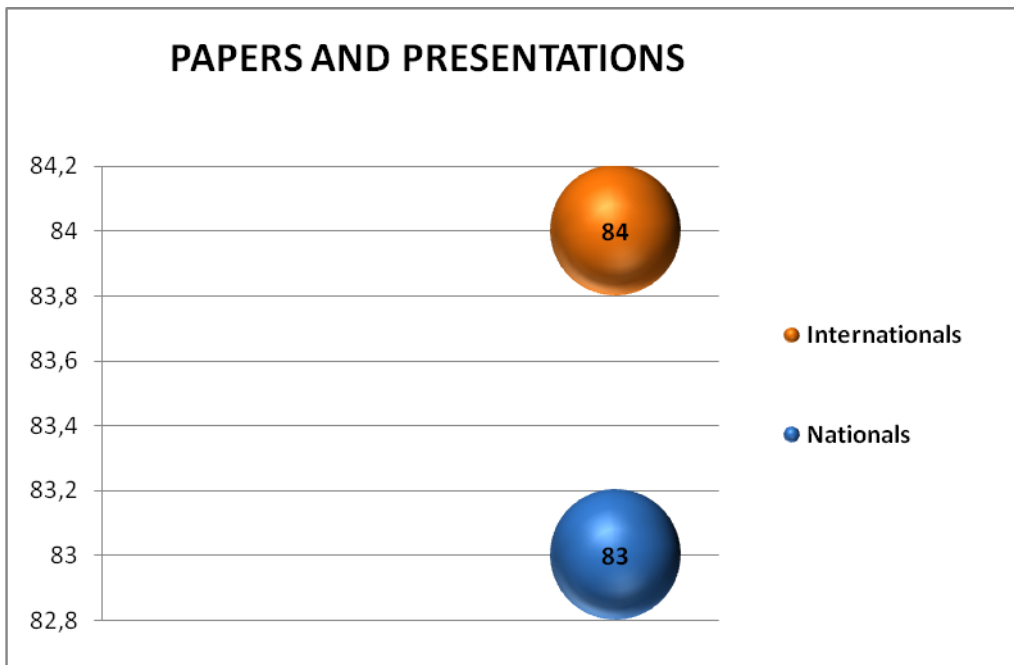
In 2013 the Research Groups of this Centre have organised 12 Congresses, and 4 of those (nearly 35%) have been international congresses.



PAPERS AND PRESENTATIONS



Research Groups have contributed with numerous presentations in poster, oral and presentations formats. In total, its members have participated in 167 presentations.



PARTICIPATION IN COLLABORATIVE QUALITY CONTROL EXERCISES



Two groups participated during 2013 in quality control collaborative exercises:

GROUP	TYPE OF ACTIVITY	PARTICIPATING ORGANIZATIONS
BIOMICs	Comparison Exercise: “Study of DNA polymorphisms in blood stains and other biological samples” Modules: basic level kinship, basic and advanced forensics. 18 October 2013.	Spanish and Portuguese Speaking Group of the International Society for Forensic Genetics (GHEP-ISF)
BIOMICs	Y-STR Haplotyping Quality Assurance Exercise. 3 July 2013	Charité-Universitätsmedizin Berlin
Built Research (GPAC) Heritage Group	Certification for Development Activity Projects on Technological Research and Innovation. Type of participation: Evaluator at 4 and 6 digit level (Expert) UNESCO Investigator: J.L. Solaun	European Quality Assurance Spain S.L.

AWARDS

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

GROUP	AWARD	INSTITUTE/ISSUING BODY
Nutrition and Obesity	2013 First National Quality Award, in the “initiatives promoting healthy life styles” category for the “Comprehensive programme for Promoting Fruit and Vegetable Consumption among children of Vitoria-Gasteiz” Project.	Spanish Federation of Municipalities and Provinces (Spanish Network of Healthy Cities)
Nutrition and Obesity	Prize for the best oral communication: “Effectiveness of a nutrition intervention programme in the obese child population”	Vasco-Navarra Paediatric Society
Parasitologia and Immunoalergia	Poster session award to Gabriel Mf, Postigo I, Suñen E, Gutierrez A, Guisantes Já, Tomaz Ct, Martínez J. “A subtilisin like serin protease of <i>Alternaria alternata</i> . A potential cross reactive allergen”. European Academy of Allergy and Clinical Immunology and World allergy Asthma Congress. Milan. 22 to 26 June 2013.	European Academy of Allergy and Clinical Immunology
Parasitologia and Immunoalergia	Poster session award to Ceballos M, De Castro C, Gabriel Mf,	European Academy of Allergy and

	<p>Postigo I, Martínez J. "Identification of a new allergen showing cross reactivity Between Artemia spp and Mysis spp". European Academy of Allergy and Clinical Immunology and World allergy Asthma Congress. Milan. June 22 to 26. 2013.</p>	<p>Clinical Immunology</p>
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LASCARAYREN ERABILTZAILEAK/ USUARIOS LASCARAY



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. anamaría.rocandio@ehu.es
- Marta Ines Saloña Bordas. Tenured Lecturer of Animal Biology. m.salona@ehu.es
- José Ángel Peña García. Tenured Lecturer of Animal Biology. joseangel.pena@ehu.es

- Jaime Algorta Pineda. PhD in Medicine. jaime.algorta@ehu.es
- Marta Arroyo Izaga. PhD in Pharmacy. marta.arroyo@ehu.es
- 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. andreslopezoceja@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.

Molecular Epidemiology of Campylobacter and Arcobacter

http://www.microbiologia.ehu.es/s0093-con/es/contenidos/informacion/00093_investigacion/es_00093_in/00093_campilobacterias.html

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.enpresa.ehu.es/p223-shgiitct/es/contenidos/ikertu/ikertu_00235_grupo/es_grupo_presentacion_pe/00235_es_pe_presentacion.html

Group Members:

- PI: Oscar Casis Sáenz. Tenured Lecturer of Physiology. oscar.casis@ehu.es; 945014507
- Ernesto Casis Sáenz. Tenured Lecturer of Nursing. ecasis@chdo.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
- Layse Malagueta Vieira. Predoctoral fellow from Brasil 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.
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- Ainhoa Ruiz Aracama. Associate Lecturer. PhD. ainhoa.ruiz@ehu.es
- María Luisa Ibargoitia Isasi-Isasmendi. Contract investigator staff. PhD.
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- 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

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.enpresa.ehu.es/p223-shgiitct/es/contenidos/ikertu/ikertu_00401_grupo/es_grupo_presentacion_pe/00401_es_pe_pr esentacion.html

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
- Eduardo Asín Prieto. Predoctoral Fellow. Graduate in Pharmacy. eduardo.asin@ehu.es
- Ana Beloqui García. Predoctoral Fellow. Graduate in Pharmacy. ana.beloqui@ehu.es
- Aritz Pérez Ruiz de Garibay. Predoctoral Fellow. Graduate in Pharmacy. aritz.perezr@ehu.es
- Amaia Soraluze. PhD student. Graduate in Pharmacy. amaiasoraluce@hotmail.com

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.go.ehu.es/s0040-gifoshom/es>

Group Members:

- PI: Francisco J. Palacios Gamba. Professor of Organic Chemistry. francisco.palacios@ehu.es; 94501303
- 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
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- Javier Vicario Hernando. Ramón y Cajal Investigator. PhD in Chemistry. javier.vicario@ehu.es
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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.ikerkuntza.ehu.es/p273-scsigct/es/contenidos/informacion/sgiker_cartografia/es_cartogra/presentacion.html

Group Members:

- PI: Luis Eguiluz Alarcón. Professor of Geodynamics. luis.eguiluz@ehu.es. 945014541
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- Iosu Junguitu Iñiguez de Heredia. Predoctoral Fellow. Graduate in Geography. iosujun@gmail.es

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.farmacia-cienciasalimentos.ehu.es/s0101-giquehom/en/>

Group Members:

- PI: Luis Javier R. Barron. Tenured Lecturer of Food Technology. luisjavier.rbarron@ehu.es; 945013082
- Maria Mercedes de Renobales Scheifler. Professor of Biochemistry and Molecular Biology. mertxe.derenobales@ehu.es
- Marta Maria Albisu Aguado. Tenured Lecturer of Nutrition and Food Science. marta.albisu@ehu.es
- Ana Isabel Najera Ortigosa. Tenured Lecturer of Food Technology. anisabel.najera@ehu.es
- Francisco José Pérez Elortondo. Tenured Lecturer of Nutrition and Food Science. franciscojose.perez@ehu.es
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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.enpresa.ehu.es/p223-shgiitct/es/contenidos/ikertu/ikertu_00022_grupo/es_grupo_presentacion_pe/00022_es_pe_presentacion.html

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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.enpresa.ehu.es/p223-shgiitct/es/contenidos/ikertu/ikertu_00236_grupo/es_grupo_presentacion_pe/00236_es_pe_presentacion.html

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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://bbn.ciber-bbn.es/grupos/detail/?locale=en&id=166&show=proyectos>

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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.enpresa.ehu.es/p223-shgiitct/es/contenidos/ikertu/ikertu_00246_grupo/es_grupo_presentacion_pe/00246_es_pe_presentacion.html

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- Xabier Arechabala Rodríguez. Investigator in training. Graduate in Pharmacy.
- Imanol González Burguera. Predoctoral fellow. Graduate in Chemistry. imanol.gonzalez@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:

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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/es.html>

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Ikerketa-ildoak

Líneas de Investigación

- 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.microbiologia.ehu.es/s0093-con/es/contenidos/informacion/00093_investigacion/es_00093_in/00093_parasitologia.html

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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/>

Group Members:

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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.ikerkuntza.ehu.es/p273-badnct/es/contenidos/informacion/sgiker_banco_adn/es_bancoadn/presentacion.html

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 (franciscojose.perez@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.ikerkuntza.ehu.es/p273-scact/es/contenidos/informacion/sgiker_analisis_alava/es_araba/presentacion.html

Scientific Advisor: Ramón Barrio Diez-Caballero (r.barrio@ehu.es)

SGIker Technician:

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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.ikerkuntza.ehu.es/p273-rmnct/es/contenidos/informacion/sgiker_rmn/es_rmn/presentacion.html

Scientific Advisor: Francisco Palacios Gamba (francisco.palacios@ehu.es)

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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-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.ikerkuntza.ehu.es/p273-sgikerct/en/contenidos/informacion/sgiker_lab_cont_bio_ciea/en_dest/laboratorio.html

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

General information

Level-3 Biological Containment Laboratory, University of the Basque Country (UPV/EHU), has been installed at the Lascaray Ikerkuntza 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.ikerkuntza.ehu.es/p273-sgikerhm/en/>

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.

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

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

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

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

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

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

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

Groups members of the Centre

- Zain Fundazioa Foundation

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.ufi.ehu.es/p309-qosychm/es/>

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

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

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

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

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

Groups members of the Centre

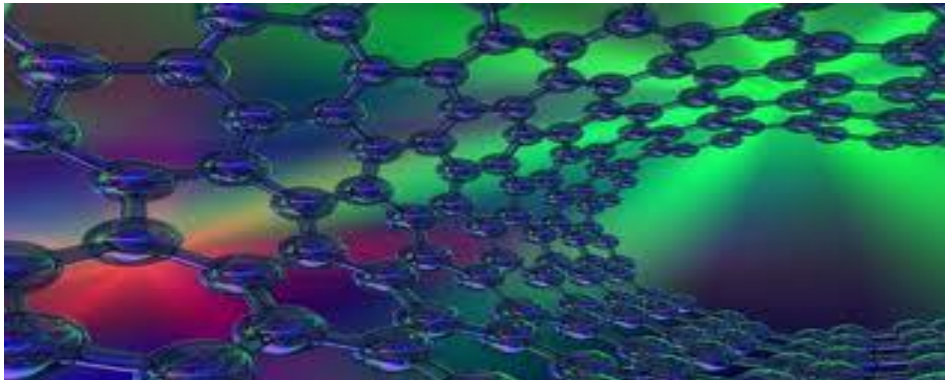
- METABOLOMIPs
- Cellular and Molecular Neuropharmacology

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

UPV/EHU has approved a new business incubator in Álava Campus Lascaray Research Centre. This is a 136.81-m² area properly conditioned for placement and development of entrepreneurial projects that generate knowledge distinguished by their strong technological character.



The space is divided into two zones, depending on sponsors.

- Preincubation phase: entrepreneurs who are in the process of starting a business.
- Incubation phase: companies beginning their business with facilities in the incubator and are going to be legally incorporated within a maximum period of 3 months. Also companies already launched with an operating time of less than 3 years.

All information on the tender to access can be viewed on the web page of the Business Incubator:

<http://www.ehu.es/es/web/lascarayikergunea/enpresa-mintegia>



The 5 approved projects are:

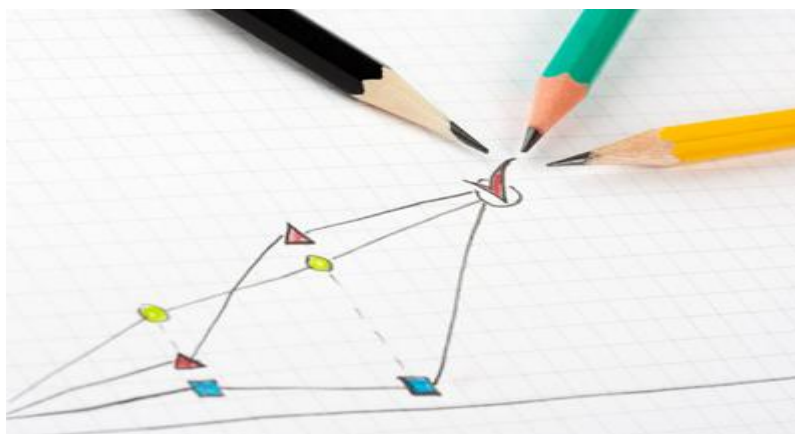
INCUBATION PHASE

PROJECT AND PROMOTERS	DESCRIPTION
BAIGENE http://baigene.com/ - Jose Maria Aznar Oviedo - David Celorrio Herrera - Adrian Odriozola Martínez	- Entrepreneurship nature RDI, whose objective is to develop a service to maximize athletic performance by generating comprehensive sports-based planning in the genetics of each individual. - The project is carried out through Comprehensive Planning Sports Wear (PDIP), and highly skilled training, whose pillars are Biotechnology, Bioinformatics, Sport Sciences and healthy lifestyle promotion.
NUTRITION UNIT - Leila Pérez Venturino - - Bittor Rodriguez Rivera	- Nutritional Health Care. - Education and training. - Scientific advice and assistance.

PREINCUBATION PHASE

PROJECT AND PROMOTERS	DESCRIPTION
NUTRIAKTIVE http://www.nutriaktive.com/ - Jose Miguel Martínez Sanz - Aritz Urdampilleta Otegui	- Scientific-technical advice for sports planning: - Planning and control of sports training. - Intermittent hypoxia. - Personalized dietary planning. - Sports supplements.
NA+HA - Raúl Pérez González	- Project for the manufacture of copolymeric hydrogels for custom biomedical applications. - Development of a family of sodium hyaluronate (NaHa) solution based injectable products at different concentrations.

	<ul style="list-style-type: none"> - Innovation in polymeric gels incorporating controlled drug release to develop a new product.
<p style="text-align: center;">VAREP</p> <p style="text-align: center;">http://www.varep.es/varep.html</p> <ul style="list-style-type: none"> - Teresa Artola Guijarro - Igor Díaz de Guereñu De los Rios - Olatz Iñigo Ugalde - Jorge Rodriguez García 	<ul style="list-style-type: none"> - Consulting firm in the field of heritage management, aimed to fill a common gap in the small villages of Álava. Intends to apply management techniques to generate social dynamics that bring together the most resources to invest in keeping existing cultural heritage and making it profitable. - Their goal is to use equity as channelling tool that serves to take measures aimed at creating a way of life and helping an economy in decline.



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

- 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/>

