

LASCARAY RESEARCH CENTRE

SCIENTIFIC ACTIVITY REPORT

2008-2012



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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 occupies a total surface of 7,420 m² and it is able to host research of the highest quality. Spaces are occupied by 14 research groups, the Zain Fundazioa Foundation, the General Research Services (SGIker) of the Alava Campus, including a Level-3 Biological Containment Laboratory, and a business incubator.



In addition to research, the Centre has spaces for training, administration and a multimedia lab. The General Groups and Research Services located in the Centre have provided their laboratories with the necessary scientific equipment to carry out their research work. The Centre also has common research areas, so all Groups and Services located in the Centre can use them.



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



The building is a pioneer in environmental sustainability as it has a geothermal exchange system that takes advantage of the thermal stability of the ground. It is located in the centre of the Campus of Álava, at Avenida Miguel de Unamuno 3, 01006 Vitoria-Gasteiz. Contact tel.: (34) 945014500.

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.

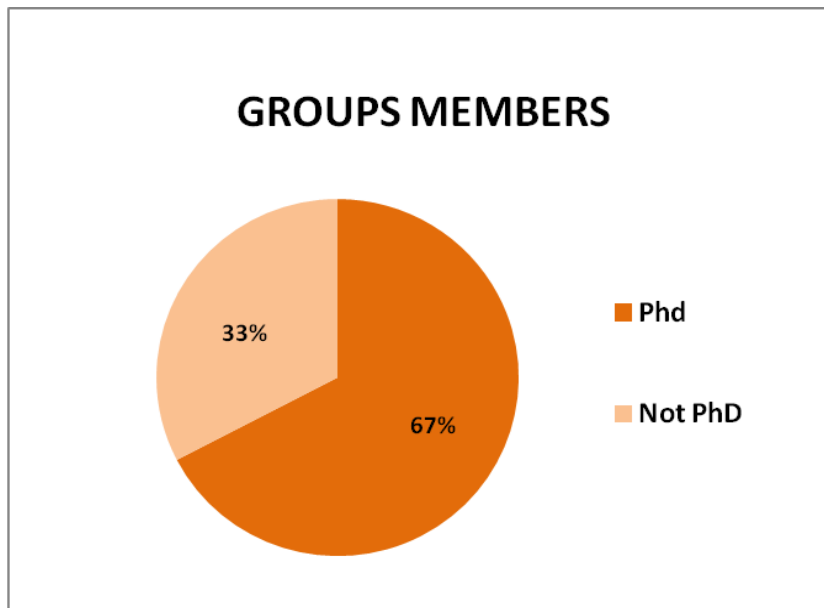


LASCARAY IN FIGURES



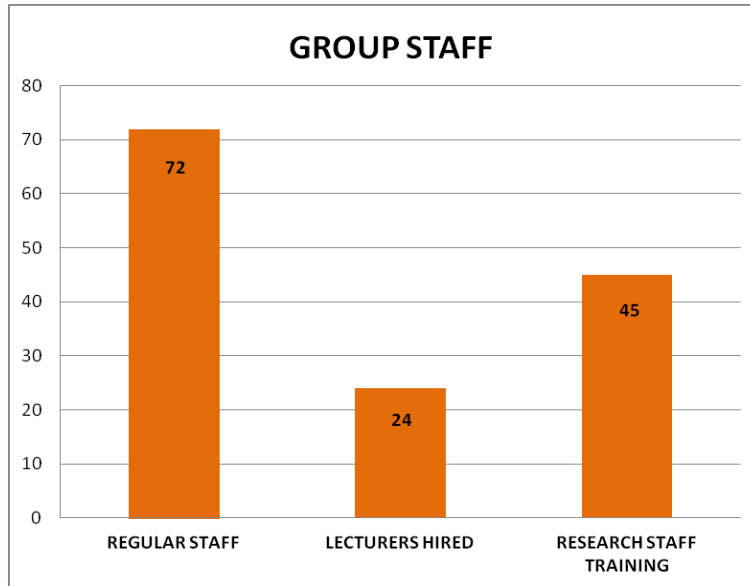
GROUP MEMBERS

The centre's research staff is formed by 141 individuals, including 95 PhD holders.



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 and Ikerbasque Programmes, temporary staff, other PhD-research staff) and Research Staff in Training (predoctoral and/or fellows).

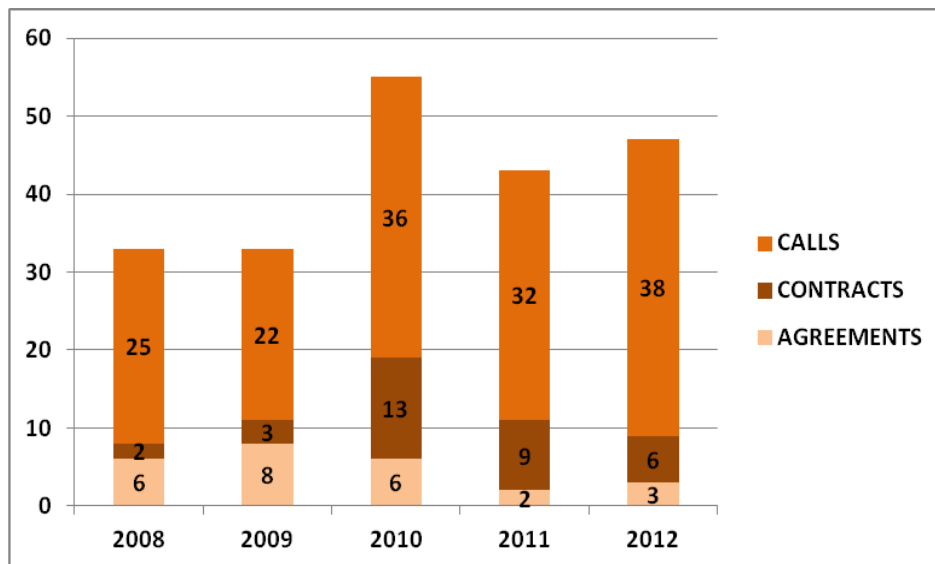


Data show that over half of the staff of the Research Groups is part of the staff working for this university centre.

PROJECTS

Types of projects according to the sources of funding

The Centre Groups have taken part in different projects with the aim to obtain financing for their research. In total 212 projects have taken part and been classified into 3 large areas: calls, contracts and agreements.

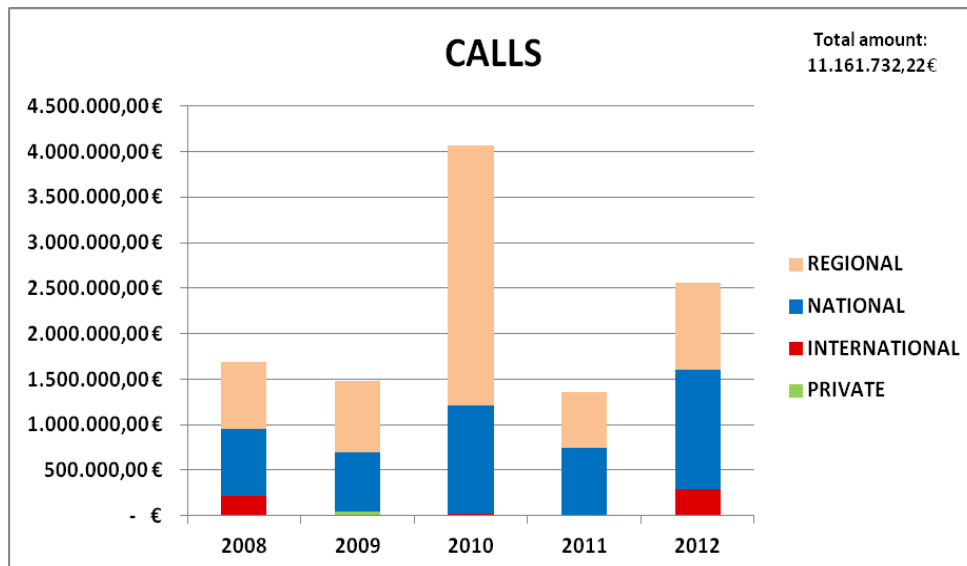


Projects classified by amount

Overall funding achieved by the Research Groups through the projects they have taken part in over the past 5 years has resulted in 12,508,436.98€.

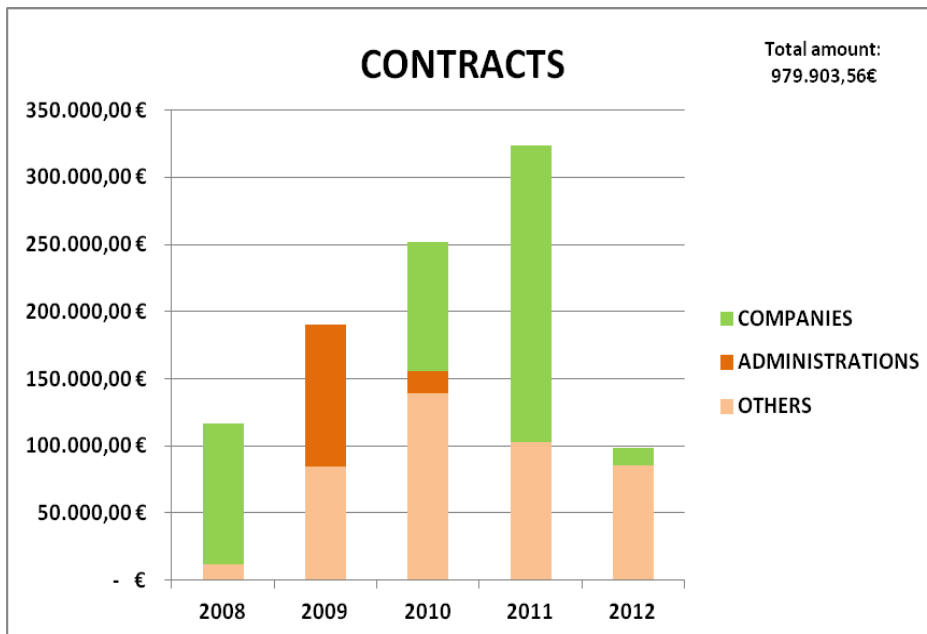
According to the type of projects, about 89% of the source of funding comes from both public and private Calls. Among public calls, 95% of these comes from regional and national funds. The remaining funding comes from international calls or private entities, such as private companies, foundations and institutions.

CALLS					TOTAL
YEAR	REGIONAL	NATIONAL	INTERNATIONAL	PRIVATE	
2008	736.182,94€	733.946€	213.000,00€	6.000,00€	1.689.128,94€
2009	786.184,24€	651.841,00€	--	44.234,29€	1.482.259,53€
2010	2.858.485,32€	1.180.001,00€	24.909,00€	--	4.063.395,32€
2011	619.232,76€	743.688,54€	--	--	1.362.921,30€
2012	964.996,35€	1.302.895,78€	288.635,00€	7.500,00€	2.564.027,13€
SUBTOTAL	5.965.081,61€	4.612.372,32€	526.544,00€	57.734,29€	11.161.732,22€



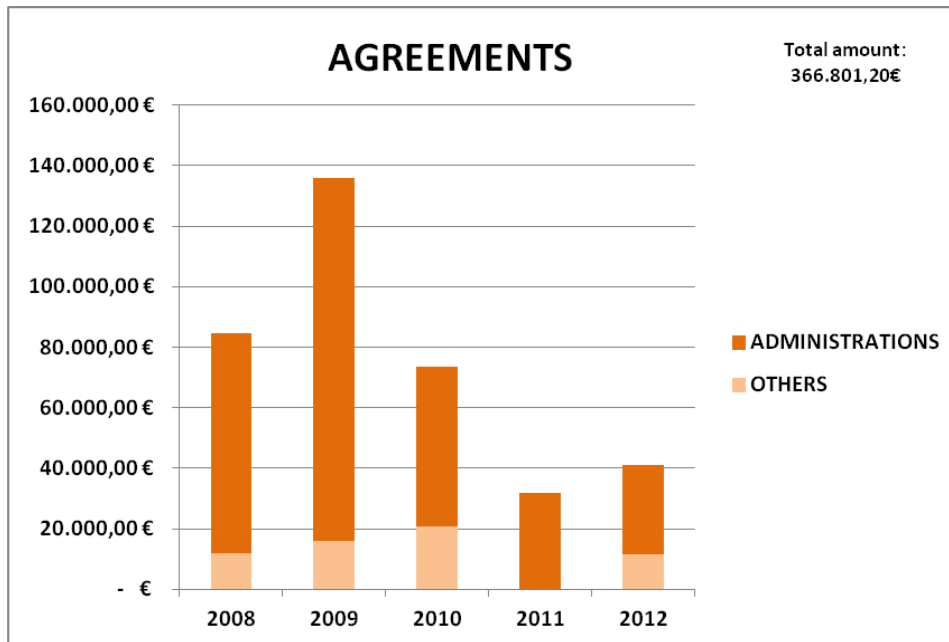
As for contacts, 88% of these has been signed with companies and other institutions such as private foundations and associations.

CONTRACTS				TOTAL
YEAR	COMPANIES	ADMINISTRATIONS	OTHERS	
2008	105.000,00€	--	11.677,00€	116.677,00€
2009	--	106.000,00€	84.300,00€	190.300,00€
2010	96.200,00€	16.203,55€	138.981,00€	251.384,55€
2011	220.903,01€	--	102.469,50€	323.372,51€
2012	13.000,00€	--	85.169,50€	98.169,50€
SUBTOTAL	435.103,01€	122.203,55€	422.597,00€	979.903,56€



Finally, 83% of the agreements signed by the Research Groups of the Centre have been with public administrations.

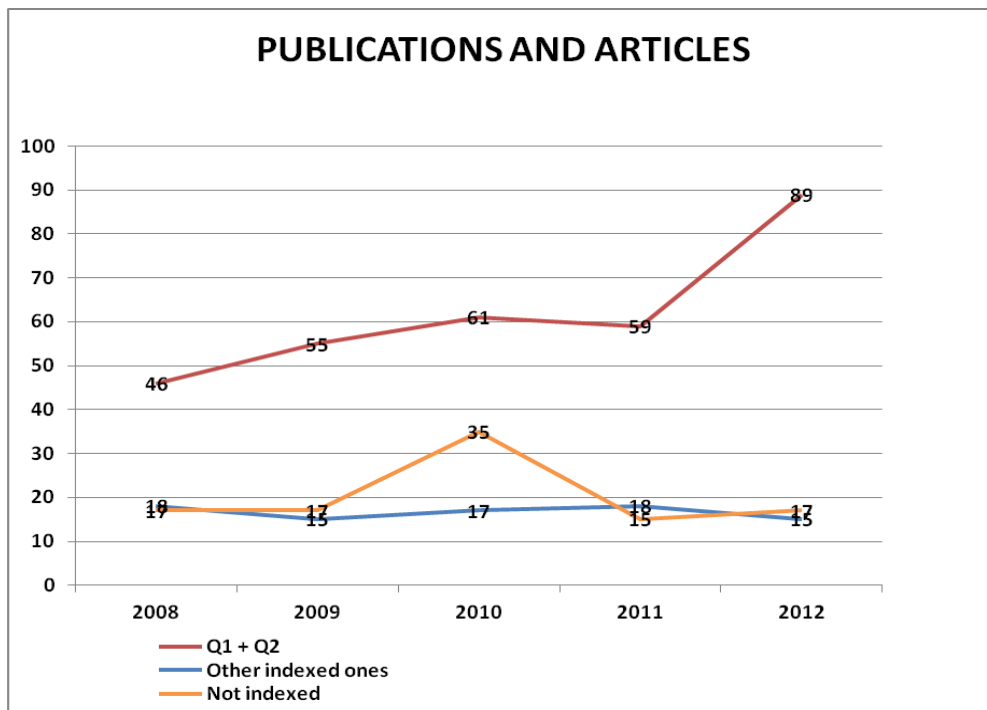
YEAR	AGREEMENTS		TOTAL
	ADMINISTRATIONS	OTHERS	
2008	72.703,20€	12.000,00€	84.703,20€
2009	119.916,00€	16.100,00€	136.016,00€
2010	52.626,00€	20.920,00€	73.546,00€
2011	31.658,00€	--	31.658,00€
2012	29.425,00€	11.453,00€	40.878,00€
SUBTOTAL	306.328,20€	60.473,00€	366.801,20€



PUBLICATIONS AND PAPERS

One of the most significant indicators of research excellence is the Groups publications in specialised journals. There is a total 493, nearly 80% in indexed journals, and out of these, 79% in journals with quartiles Q1 and Q2.

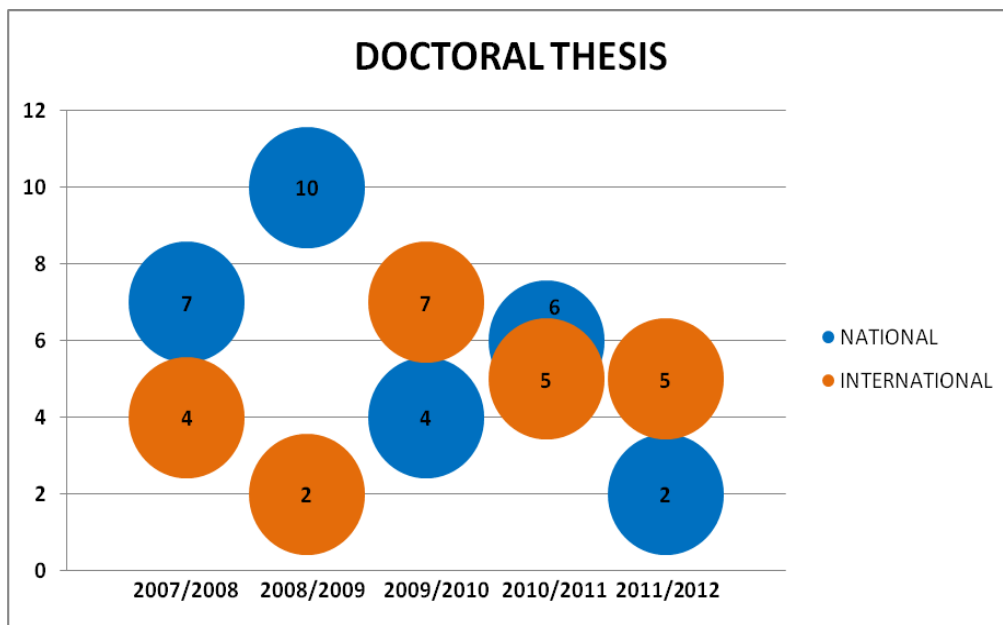
PUBLICATIONS	2008	2009	2010	2011	2012	TOTAL
Q1	36	39	44	46	65	230
Q2	10	16	17	13	24	80
Others indexed ones	18	15	17	18	15	83
Not indexed	17	17	35	15	17	101
SUBTOTAL	81	87	113	92	121	494



DEFENDED DOCTORAL THESIS

Throughout these 5 academic years, the Lascaray groups have completed 52 of Doctoral Thesis with Outstanding cum laude, and almost half of them have been international. Three of the thesis defended have been rewarded with the extraordinary doctorate prize of the UPV/EHU, and another with the 2011 SPLC-CRS PHD Thesis Award, granted to the best doctoral thesis related to the controlled release of drugs in the period between 1 June 2008 and 1 June 2011.

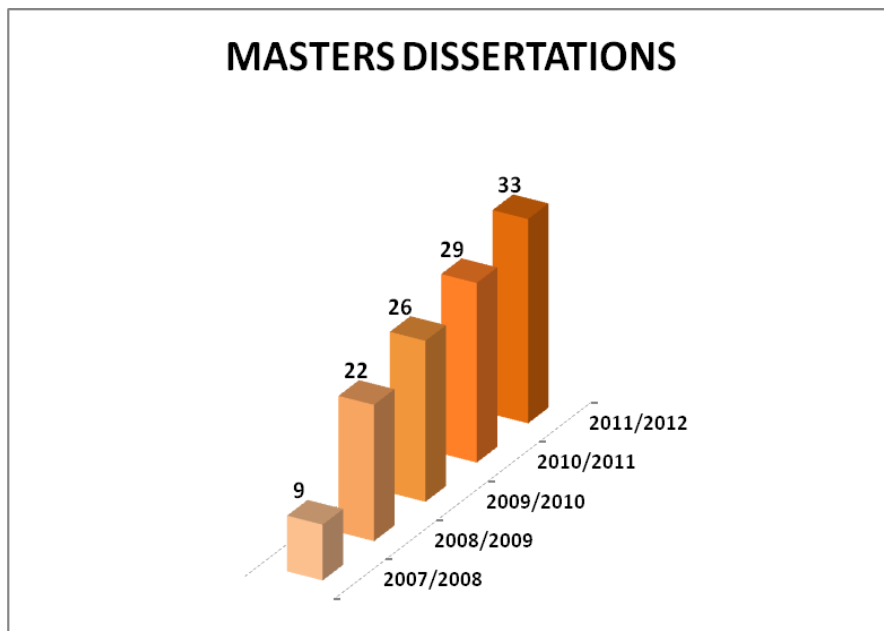
COURSE	NATIONAL	INTERNATIONAL	TOTAL
2007/2008	7	4	11
2008/2009	10	2	12
2009/2010	4	7	11
2010/2011	6	5	11
2011/2012	2	5	7
SUBTOTAL	29	23	52



MASTERS DISSERTATIONS

During the 2007-2012 academic years, 119 Masters Dissertations have been completed, conducted by investigators at the Centre.

COURSE	No. OF DISSERTATIONS
2007/2008	9
2008/2009	22
2009/2010	26
2010/2011	29
2011/2012	33
TOTAL	119



PARTNERSHIPS AND NETWORKS

One of the best ways to contribute to the research development is through organizational structures formed by several research agents. Lascaray Ikerunea research centre research groups are involved in a total of 42 structures, and almost half of them are in international forums.



As for the type of collaborations throughout the Centre, there are a total of 17 networks providing access to global research networks.

PATENTS

Research Groups have 15 patents in force, and 12 of them are granted in Spain. The remaining 25% are international, and 2 of them have international patents.

BIOMICS

- Development and validation of I-DNA1: a 15-Loci multiplex system for identity testing. (Granted in Spain, 2010) (P201031269)
- Device for the traceability of biological samples and tracing method for the same. (Granted in Spain, 2010)
- Development and validation of I-DNA1: a 15-Loci multiplex system for identity testing. (Granted in Spain, 2010) (P201031270)
- Device for the traceability of biological samples and tracing method for the same. (International Granted 2010)
- Development and validation of I-DNA1: a 15-Loci multiplex system for identity testing. (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)
- Aspergillus detection reagents and methods. (Granted in Spain, 2011)

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)

Nutrition and Obesity

- Anti-obesity effects of ptersotilbene. (International patent, 2012). Company that operates: ChromaDex

MASTERS DEGREE ORGANISATION

During the 2012/2013 academic year, the members of the groups participate in 13 official university masters degrees of the UPV/EHU. Half of them are taught in the classrooms of Lascaray Ikerkunea Research Centre, and the rest in other centres of the UPV/EHU. Additionally, a Group of the Centre also runs a Masters and a PhD programme at the Federal University of Rio de Janeiro, Brazil.

Each of the Masters Programmes has a workload of 60 ECTS credits, and Centre's members teach a total of 360 students. It is also important to note that four investigators from the Groups of the Centre run these masters programmes.



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

OFFICIAL UNIVERSITY MASTER DEGREE	MASTERS PROGRAMME DIRECTOR	GROUPS PROVIDING EDUCATION
FORENSIC ANALYSIS http://www.masteranalysisforense.ehu.es/p108-1999/es	Ramon Barrio Diez-Caballero	BIOMICS Molecular Epidemiology of Campylobacter and Arcobacter METABOLOMIPs Cellular and Molecular Neuropharmacology Parasitology and Immunoallergy
FOOD QUALITY AND SAFETY http://www.mastercalidadseguridadalimentaria.ehu.es/p116-1999/es	Maria Dolores Guillén Lorén	BIOMICS Molecular Epidemiology of Campylobacter and Arcobacter Lactiker - Quality and Safety of Foods of Animal Origin METABOLOMIPs Parasitology and Immunoallergy Food Processing, Quality and Safety
PHYSICAL ACTIVITY AND SPORT SCIENCE http://www.masterdeporte.ehu.es/p168-1999/es	Julian Castellano Paulis	Lactiker - Quality and Safety of Foods of Animal Origin



TOXIC ENVIRONMENTAL POLLUTION http://www.cta.ehu.es/p159-1999/es	Ibon Cancio Uriarte	BIOMICs
MASTERS IN QUATERNARY: ENVIRONMENTAL CHANGES AND HUMAN FOOTPRINT http://www.mastercuaternario.ehu.es/p139-1999/es	Alejandro Cearreta Bilbao	Cartography and Geographic Information Systems
INNOVATIVE ENOLOGY http://www.enologiainnovadora.ehu.es/p177-1999/es	Francisco Jose Pérez Elortondo	Lactiker - Quality and Safety of Foods of Animal Origin METABOLOMIPs Nutrition and Obesity
PHARMACOLOGY, DEVELOPMENT, EVALUATION AND RATIONAL USE OF DRUGS http://www.masterfarmacologia.ehu.es/p101-1000/es	Koldo Callado Hernando	Pharmacokinetics, Nanotechnology and Gene Therapy NanoBioCel Cellular and Molecular Neuropharmacology
BIOMEDICAL RESEARCH http://www.investigacionbiomedica.ehu.es/p172-1999/es	Aintzane Asumendi Mallea	BIOMICs Cardiac Electrophysiology
MICROBIOLOGY AND HEALTH http://www.microbiologiaysalud.ehu.es/p163-1999/es	Ramon Cisterna Cancer	Molecular Epidemiology of Campylobacter and Arcobacter



		Molecular Microbiology and Genomics Parasitology and Immunoallergy
NEUROSCIENCE http://www.masterneurociencias.ehu.es/p150-1999/es	Maria Inmaculada Guerricagoitia Marina	Cellular and Molecular Neuropharmacology
NUTRITION AND HEALTH http://www.masternutricionysalud.ehu.es/p136-1999/es	María Puy Portillo Baquedano	BIOMICS Lactiker - Quality and Safety of Foods of Animal Origin Cellular and Molecular Neuropharmacology Nutrition and Obesity
HERITAGE RESTORATION AND INTEGRAL MANAGEMENT http://www.patrimonioyrestauracion.ehu.es/p170-1999/es	Santiago Sanchez Beitia	Zain Fundazioa Foundation
SYNTHETIC AND INDUSTRIAL CHEMISTRY (Inter-University Masters) http://www.masterquimicasinteticaindustrial.ehu.es/p126-1999/es	Maria Nuria Sotomayor Anduiza	Fluor-Phosphate Chemistry

OTHER UNIVERSITIES	PLACE	GROUPS PROVIDING EDUCATION
BIOLOGICAL SCIENCES	Federal University of Rio de Janeiro, Brazil	Cardiac Electrophysiology

Additionally, the groups participate in six PhD programmes, and four of them who run the PhD programmes are Lascaray Principal Investigators. Several of these programmes have been recognised with the Mención hacia la Excelencia [Excellence Award] by the Ministry of Education (ME).

PHD	PHD HEAD	GROUPS INVOLVED IN THE PHD	PHD-EXCELLENCE
FORENSIC ANALYSIS http://www.mde.ehu.es/p311-content/es/contenidos/plan_programa_proyecto/doctorado_analisis_forense/es_oferta/programa.html	Ramon Barrio Diez-Caballero	BIOMICs METABOLOMIPs Cellular and Molecular Neuropharmacology Parasitology and Immunoallergy	ME
FOOD QUALITY AND SAFETY http://www.mde.ehu.es/p311-content/es/contenidos/plan_programa_proyecto/doctorado_calidad_seguridad_al/es_oferta/programa.html	Maria Dolores Guillén Lorén	Molecular Epidemiology of Campylobacter and Arcobacter Lactiker - Quality and Safety of Foods of Animal Origin METABOLOMIPs	ME

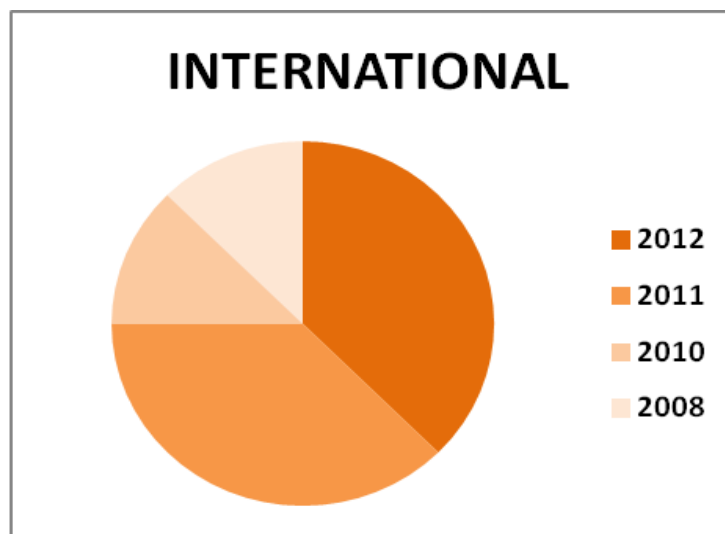
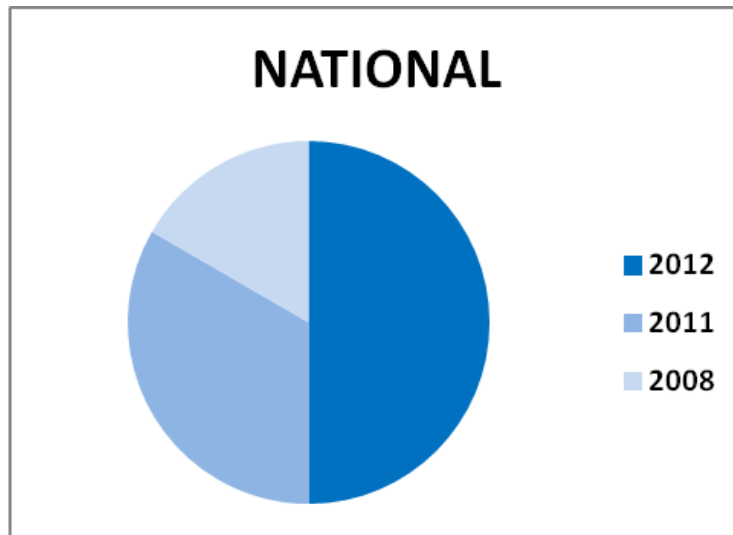


		Parasitology and Immunoallergy Food Processing, Quality and Safety	
EVALUATION, DEVELOPMENT AND RATIONAL USE OF DRUGS http://www.mde.ehu.es/p311-content/es/contenidos/plan_programa_proyecto/doctorado_evalua_desa_medicam/es_oferta/programa.html	Jose Luis Pedraz Muñoz	Pharmacokinetics, Nanotechnology and Gene Therapy NanoBioCel	ME
IMMUNOLOGY, MICROBIOLOGY AND PARASITOLOGY http://www.mde.ehu.es/p311-content/es/contenidos/plan_programa_proyecto/doctorado_inmunologia/es_oferta/programa.html	Ramón Cisterna Cancér	Molecular Epidemiology of Campylobacter and Arcobacter Molecular Microbiology and Genomics Parasitology and Immunoallergy	
BIOMEDICAL RESEARCH http://www.mde.ehu.es/p311-content/es/contenidos/plan_programa_proyecto/doctorado_investiga_biomedica/es_oferta/programa.html	María Begoña Ruiz Larrea	Cardiac Electrophysiology	
NUTRITION AND HEALTH http://www.mde.ehu.es/p311-content/es/contenidos/plan_programa_proyecto/doctorado_nutricion_salud/es_oferta/programa.html	María Puy Portillo Baquedano	Nutrition and Obesity	

OTHER UNIVERSITIES	PLACE	GROUPS INVOLVED IN THE PHD
PHYSIOLOGY	Federal University of Rio de Janeiro, Brazil	Cardiac Electrophysiology

CONGRESS ORGANISATION

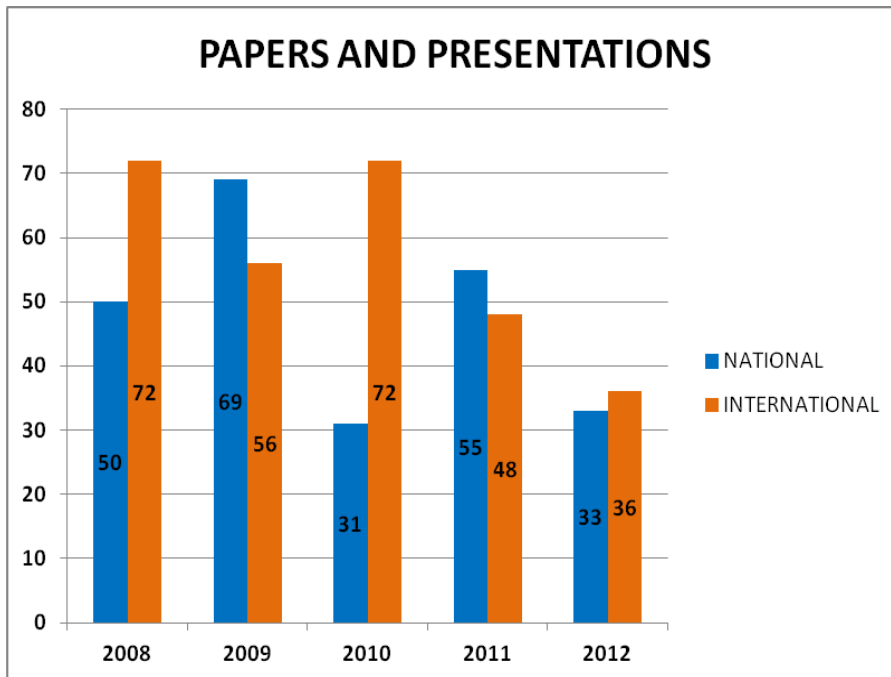
Between 2008-2012 the Research Groups of this Centre have organised 14 Congresses, nearly 60% of those have been international congresses.



PAPERS AND PRESENTATIONS

Research Groups have contributed with numerous presentations in poster, oral and presentations formats. In total, its members have participated in 523 presentations; half of these have been international presentations.

YEAR	NATIONAL	INTERNATIONAL	TOTAL
2008	50	72	122
2009	69	56	125
2010	31	72	103
2011	55	48	103
2012	33	36	69
SUBTOTAL	238	284	522



AWARDS

The Research Groups of the Lascaray Ikergunea Centre have been awarded the following prizes between 2008-2012:

GROUP	YEAR	AWARD	INSTITUTE/ISSUING BODY
NanoBioCel	2008	Annual Awards of the Cuban Academy of Sciences	Cuban Academy of Sciences
BIOMICs	2009	Honour Academy	Academy of Nursing Science in Bizkaia
Lactiker - Quality and Safety of Foods of Animal Origin	2009	Bioethics Award to "More sustainable food: Some transgenic seeds in organic farming"	International Society of Bioethics-Junta del Principado de Asturias (Board of Asturias)
Lactiker - Quality and Safety of Foods of Animal Origin	2009	Research and promotion of cheese	Producer Association "Artzai Gazta"
Molecular Microbiology and Genomics	2009	1st Inizia Award to University Entrepreneurs: Micro Araba Diagnostics	UPV/EHU, SPRI and CEIA
NanoBioCel	2009	Asedef Award	Spanish Association of Pharmaceutical Law

Nutrition and Obesity	2009	2nd Inizia Award to University Entrepreneurs: Food gluten analysis.	UPV/EHU, SPRI and CEIA
BIOMICS	2010	Honour Distinction	Academy of Medical Sciences of Bilbao
Cardiac Electrophysiology	2010	Agote Saria Award to the Editing of Texts in Basque in Area of Healthcare	Asociation for the conversion of health to Basque normes
Food Processing, Quality and Safety	2011	“Sigma-Aldrich” award to the “Volatile Components of Several Virgin and Refined Oils Differing in their Botanical Origin” project published in the Journal of the Science of Food and Agriculture, 91(10), 1871-1884 (2011), awarded in the 13rd Instrumental Analysis Conference (JAI).	Spanish Society of Analytical Chemistry (SEQA)



LASCARAY CENTRE'S USERS



RESEARCH GROUPS



BIOMICS

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

Group Members:

- PI: Marian M. de Pancorbo. Professor of Cell Biology.
marian.mdepancorbo@ehu.es; 945014528
- Juan José Zarranz Imirizaldu. Professor of Neurology.
juanjose.zarranzimirizaldu@osakidetza.net
- Carmelo Aguirre Gómez. Tenured Professor of Pharmacology.
carmelo.aguirregomez@osakidetza.net
- José Ángel Peña García. Tenured Professor of Animal Biology.
joseangel.pena@ehu.es
- Miguel Ángel Alfonso Sánchez. Contract Investigator. PhD.

- Sergio Cardoso Martin. Ikertzaile kontratatua. Contract Investigator. PhD.
sergio.cardoso@ehu.es

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

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
- María Cruz Porcal. Tenured Professor of Human Geography. mariacruz.porcal@ehu.es
- Luis Miguel Martínez Torres. Tenured Professor of Geodynamics. luismiguel.martinez@ehu.es
- Fernando Sarrionandia Eguidazu. Assistant Professor. PhD in Geology. fernando.sarrionandia@ehu.es
- Iosu Junguitu Iñiguez de Heredia. PhD student. 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

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 Professor of Physiology. oscar.casis@ehu.es; 945014507
- Ernesto Casis Sáenz. Tenured Professor of Nursing. ecasis@chdo.osakidetza.net
- Mónica Gallego Muñoz. Tenured Professor of Physiology. monica.gallego@ehu.es
- Hiart Alonso Basáñez. Contract Predoctoral Fellow. Graduate in Biochemistry. hiartxu88@gmail.com

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

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 Professor of Microbiology. rodrigo.alonso@ehu.es
- Karmele Colom Aristondo. Tenured Professor of Microbiology. karmele.colom@ehu.es
- Águeda Fernandez de Aranguiz Guridi. Tenured Professor 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)

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_presentacion.html

Group Members:

- PI: Alicia Rodríguez Gascón. Tenured Professor of Pharmacy and Pharmaceutical Technology. alicia.rodriguez@ehu.es; 945013094
- Ana del Pozo Rodríguez. Associate Professor. PhD in Pharmacy. ana.delpozo@ehu.es
- Arantxazu Isla Ruiz. Associate Professor PhD in Pharmacy. arantxa.isla@ehu.es
- María Ángeles Solinís Aspiazú. Associate Professor 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. Ikertzaile kontratatua. Contract Investigator. Graduate in Biology. josune.torrecilla@ehu.es
- Paola Apaolaza Gallegos. Predoctoral Fellow. Graduate of Pharmacy. paolastepahie.apaolaza@ehu.es
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Lines of Research

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

Fluor-Phosphate Chemistry

<http://www.qo.ehu.es/s0040-gifoshom/es>

Group Members:

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- Maria González Sáenz. Predoctoral Fellow. Graduate of Chemistry. maria.gonzalezs@ehu.es

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

Group Members:

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- Izaskun Valdivielso Zubiria. Contract Fellow and Investigator.

Lines of Research

- Quality and traceability of traditional foods: contribution to the sustainability of mountain grazing of dairy sheep
- Evaluation and production of high-quality ruminant meat for human consumption
- Evaluation of the use of local sheep-food farming products. Improving the quality of milk and cheese
- Influence of dairy intake on the risk of cardiovascular disease
- Preparation of technological and sensory interest compounds for cheese and cheese derivatives. Biochemical and technological studies for new product development and innovation
- Cheese safety: characterisation of defects and the presence of biogenic amines in ripened cheese
- Optimisation and improvement of sensory analysis methods to evaluate cheese and meat quality

METABOLOMIPs

http://www.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. fumigatus*
- 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>

Group Members:

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Lines of Research

- Microencapsulation of live cells.
- Biodegradable Micro and nanoparticles as administration systems for peptide and proteins vaccines.
- Biodegradable Micro and nanoparticles for the delivery of biotechnological products.
- Biopharmaceutical and pharmacokinetic development and evaluation of controlled release formulations.
- Biopharmaceutical and pharmacokinetic evaluation.
- Pharmacokinetics and metabolism of drugs and biotechnological products.
- Solid lipid nanoparticles for gene therapy.

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 of Pharmacy.
- Imanol González Burguera. Predoctoral fellow. Graduate of Chemistry. imanol.gonzalezb@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

Parasitology and Immunoallergy

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

Group Members:

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- Marta Gabriel Da Fonseca. PhD student. Graduate in Biochemistry. mgabriel20023@gmail.com
- Fardis Teifoori. PhD student. Med. Mycology M. BSc. fardis@arbabzadeh.com

Lines of Research

- Preparation and immunochemical characterisation of excretory-secretory antigens of larval and adult helminths of medical and veterinary interest. Parasitic allergens
- Immunochemistry and molecular characterisation of allergens involved in hypersensitivity reactions compared to *Alternaria alternata* and other fungi. Nature and biological functions of fungal allergens. Their role in asthma and respiratory allergies. Recombinant antigens
- Immunochemical, biochemical and biological characterisation of mite allergens
- *Toxocara canis* and toxocariasis. Immunochemistry and molecular characterisation of allergenic antigens of *T. canis*. Characterizing viability markers. *Toxocara* antigen detection in foods. Experimental models
- Food allergens: Identification detection and quantification of allergens in food matrices
- Virus, food and environment. Human enteric viruses. Food borne viruses

Food Processing, Quality and Safety

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

Group Members:

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- Barbara Nieva Echevarría. Predoctoral Fellow.
- 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

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

Fundación Zain Fundazioa

<http://www.zainfundazioa.org/en/>

Director: Agustin Azcarate Garay-Olaun (agustin.azcarate@ehu.es)

General information

The Foundation works mainly for technological innovation projects focused on the comprehensive wealth management and pays special attention to the its role as socio-economic catalyst. Its governing Board is formed by the Basque Government, City Council of Vitoria-Gasteiz and the UPV/EHU.



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.



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.

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.

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 Ikerguna 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.

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)

SGIker Technician: 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.

Central Analysis Service

http://www.ikerkuntza.ehu.es/p273-scact/es/contenidos/informacion/sgiker_analisis_alava/es_aaraba/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.



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.

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.

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.

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.

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.eric@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.

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.

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.



EUSKAMPUS

Community of Poles of Knowledge



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

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

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

FOOD & HEALTH HABITS POLE

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

NEUROSCIENCE POLE

- BIOMICs

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