

Horizonte Europa – Pilar I

“Ciencia Excelente”: Proyectos aprobados en 2023 y coordinados por una organización vasca

Euskadi, auzolana, bien común

EUSKO JAURLARITZA



GOBIERNO VASCO

Proyectos ERC (Consejo Europeo de Investigación)

H. Europa: Pilar I - Ciencia Excelente

Nº	Acrónimo	Título	Tipo proyecto	Organización	Financiación UE (euros)
1	CONSPIRA	Coherent control of spin chains in graphene nanostructures	ERC ADVANCED GRANTS	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN NANOCIENCIAS CIC NANOGUNE	2.988.750
2	mKoire	Unveiling the nature of superconductivity in moiré quantum matter	ERC CONSOLIDATOR GRANTS	FUNDACION DONOSTIA INTERNATIONAL PHYSICS CENTER	2.802.250
3	GorBEEa	Understanding biodiversity-ecosystem function and biodiversity-stability relationships across spatial and organizational scales	ERC CONSOLIDATOR GRANTS	ASOCIACION BC3 BASQUE CENTRE FOR CLIMATE CHANGE - KLIMA ALDAKETA IKERGAI	1.998.793
4	StarTicking	The early ticking of the central circadian pacemaker: when and how	ERC CONSOLIDATOR GRANTS	ACHUCARRO BASQUE CENTER FOR NEUROSCIENCE FUNDAZIOA	1.955.875
5	Glyco13Cell	Isotopically labelling of cell surface glycans to illuminate infectious processes at atomic resolution	ERC STARTING GRANTS	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOCENCIAS	1.500.000
6	Radical ProtON	Designing organic molecules as platforms for reversible charge-to-spin conversion with applications in chromophore optimisation and drug discovery	ERC STARTING GRANTS	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	1.467.111

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7	SynPrePro	Empirical and mechanistic foundations for synergistic predictive processing in the sensory brain	ERC STARTING GRANTS	BCBL BASQUE CENTER ON COGNITION BRAIN AND LANGUAGE	1.199.570
8	ADJU-PLATFORM	Minimal saponin-based adjuvant vaccine platform	ERC PROOF OF CONCEPT GRANTS1	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOCIENCIAS	150.000
9	3DTUMOUR	Development of a high-throughput microplate based device to analyse the patient derived tumour microenvironment	ERC PROOF OF CONCEPT GRANTS	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOMATERIALES- CIC biomaGUNE	150.000
10	ADJUPROBE	Lead adjuvant probe as a dual technological tool to advance next-generation vaccine development	ERC PROOF OF CONCEPT GRANTS	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOCIENCIAS	150.000
11	NIBIOX	Heterogeneous biocatalysts for oxygen-independent oxidations using inorganic salts	ERC PROOF OF CONCEPT GRANTS2	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOMATERIALES- CIC biomaGUNE	130.000
12	ADSOILS	ADvanced SOILs for the agritech R&D	ERC PROOF OF CONCEPT GRANTS	NEIKER-INSTITUTO VASCO DE INVESTIGACION Y DESARROLLO AGRARIO SA	95.200

Acciones MSCA (Marie Skłodowska-Curie Actions)

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Nº	Acrónimo	Título	Tipo proyecto	Organización	Financiación UE (euros)
1	SmartBRAIN3	Attracting International Experienced Researchers in any Research Field to the Basque Country	MSCA COFUND 2022	FUNDACION IKERBASQUE-IKERBASQUE FUNDAZIOA	4.298.400
2	IONBIKE 2.0	Innovative eutectogels for emerging applications	MSCA Staff Exchanges 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	552.000
3	DEMO	Discovery of efficient Enzyme-like Metal Organic frameworks to activate biomethane at low temperature	MSCA Doctoral Networks 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	503.942
4	METABOLISM	MEchanical sTABILITY Of phosphoLipids bilayerS in the presence of Microplastics	MSCA Postdoctoral Fellowships 2022	FUNDACION BIOFISICA BIZKAIA / BIOFISIKA BIZKAIA FUNDAZIOA	261.381
5	POHOWEP	Performance Optimization of a Hybrid Offshore Wind-Wave Energy Platform	MSCA Postdoctoral Fellowships 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	252.724
6	IN-DEEP	Real-time inversion using self-explainable deep learning driven by expert knowledge	MSCA Doctoral Networks 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	251.971
7	CONTRABASS	zero-CO2 cemeNt ThRough cARbonation of cAlcium Silicates and aluminates	MSCA Doctoral Networks 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	251.971
8	CRISPRGels	Rational Nanoparticle Design for Efficient Transmucosal CRISPR Delivery in Cystic Fibrosis – “CRISPRGels”	MSCA Postdoctoral Fellowships 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	206.641
9	SELFAQUASE NS	Advanced manufacturing of self-sensing bio-based membranes for environmental detoxification and revalorization	MSCA Staff Exchanges 2022	FUNDACION BCMATERIALS - BASQUE CENTRE FOR MATERIALS, APPLICATIONS AND NANOSTRUCTURES	197.800
10	NAPOLEON	Advanced nanospectroscopy for mapping local conductivity in conductive metal-organic framework	MSCA Postdoctoral Fellowships 2022	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN NANOCIENCIAS CIC NANOGUNE	181.153

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Nº	Acrónimo	Título	Tipo proyecto	Organización	Financiación UE (euros)
11	CavityMag	Cavity quantum electrodynamics control of magnetic phases in twisted van der Waals heterostructures	MSCA Postdoctoral Fellowships 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	181.153
12	ACCESS	Engineering Spin-Splitting in Atomically Thin 2D Non-Centrosymmetric Crystals	MSCA Postdoctoral Fellowships 2022	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN NANOCIENCIAS CIC NANOGUNE	181.153
13	PLASMOSTEM FATE	In situ growth of thermoplasmonic nanoparticles in microfluidic platforms for modifying stem cell fate	MSCA Postdoctoral Fellowships 2022	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOMATERIALES- CIC biomaGUNE	181.153
14	PHOCAT	Innovative chemical reaction and photocatalyst design methods for sustainable CO2 reduction	MSCA Postdoctoral Fellowships 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	181.153
15	ADRIAN	Multimodal Brain Imaging – Gene Relationships in Alzheimer Disease: Risk and Resilience	MSCA Postdoctoral Fellowships 2022	ASOCIACION INSTITUTO DE INVESTIGACION SANITARIA BIOBIZKAIA	181.153
16	NEOPLASTICS	Natural deep Eutectic solvents for sustainable bioPLASTICS	MSCA Postdoctoral Fellowships 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	181.153
17	PerMSAA	Perceptual Mechanisms that Support Accent Accommodation	MSCA Postdoctoral Fellowships 2022	BCBL BASQUE CENTER ON COGNITION BRAIN AND LANGUAGE	181.153
18	MERLIN	PlasMonic photo-thermo-catalyzed composite membranes for Remediation of persistent pollutants IN water	MSCA Postdoctoral Fellowships 2022	FUNDACION BCMATERIALS - BASQUE CENTRE FOR MATERIALS, APPLICATIONS AND NANOSTRUCTURES	181.153
19	PRISM	Probing the visible- light-driven photocatalytic mechanism to improve the photocatalytic performance of carbon nanodots (CNDs)	MSCA Postdoctoral Fellowships 2022	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOMATERIALES- CIC biomaGUNE	181.153
20	GEOLEARN	Real-time hydrogen-storage monitoring via energy-efficient deep learning	MSCA Postdoctoral Fellowships 2022	BCAM - BASQUE CENTER FOR APPLIED MATHEMATICS	181.153

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Nº	Acrónimo	Título	Tipo proyecto	Organización	Financiación UE (euros)
21	THALABLIND	The contribution of thalamocortical projections to high cognitive functions (speech processing, working memory and attention) in sighted and unsighted populations	MSCA Postdoctoral Fellowships 2022	BCBL BASQUE CENTER ON COGNITION BRAIN AND LANGUAGE	181.153
22	SP-PVCB	The syntax and prosody of post-verbal constituents in Basque	MSCA Postdoctoral Fellowships 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	181.153
23	MS4PFAS	Application of gas-phase atmospheric pressure ionization sources to assess the wide-scope determination of PFAS in environmental and biological samples	MSCA Postdoctoral Fellowships 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	181.153
24	CHEERS	Chirality controlled spin to charge interconversion in Tellurium	MSCA Postdoctoral Fellowships 2022	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN NANOCIENCIAS CIC NANOGUNE	181.153
25	EPIC Read	Entrainment and Production In Children with dyslexia	MSCA Postdoctoral Fellowships 2022	BCBL BASQUE CENTER ON COGNITION BRAIN AND LANGUAGE	181.153
26	ICECOUP	ICE coupling protein inhibitors	MSCA Postdoctoral Fellowships 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	181.153
27	QuRe-ViMaL	Quantitative Rectifiability: from Vitushkin's conjecture to Manifold Learning	MSCA Postdoctoral Fellowships 2022	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	181.153
28	ChirPlasBiosensing	Self-assembled 2D Chiral Plasmene Nanosheets for Biomarker Detection Based on Surface-Enhanced Raman Scattering	MSCA Postdoctoral Fellowships 2022	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOMATERIALES- CIC biomaGUNE	181.153
29	TIDE	Turbulence and Interactions with Dispersive Equations and Fourier Analysis	MSCA Postdoctoral Fellowships 2022	BCAM - BASQUE CENTER FOR APPLIED MATHEMATICS	181.153
30	CARES	Human ECM-based platform for anti-cancer drug testing - CARES (CAncer dRug tESting)	MSCA Staff Exchanges 2022	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOCENCIAS	181.153



ZTBP 20
PCTI 30

Top 20 de organizaciones vascas participantes en el Pilar I de “Ciencia Excelente” de Horizonte Europa durante el año 2023



EUSKO JAURLARITZA
GOBIERNO VASCO

Top 20 participantes* en Pilar I

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Nº	Organización	Financ. Neta UE (€)	Nº Particip.	Nº Lider.
1	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	5.483.833	25	14
2	FUNDACION IKERBASQUE - IKERBASQUE FUNDAZIOA	4.298.400	1	1
3	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN NANOCIENCIAS CIC nanoGUNE	3.594.569	5	4
4	FUNDACION DONOSTIA INTERNATIONAL PHYSICS CENTER	2.822.250	2	1
5	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOCENCIAS – CIC bioGUNE	2.354.542	6	4
6	ASOCIACION BC3 BASQUE CENTRE FOR CLIMATE CHANGE - KLIMA ALDAKETA IKERGAU	1.998.793	1	1
7	BCBL BASQUE CENTER ON COGNITION BRAIN AND LANGUAGE	1.979.160	5	4
8	ACHUCARRO BASQUE CENTER FOR NEUROSCIENCE FUNDAZIOA	1.955.875	1	1
9	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOMATERIALES- CIC biomaGUNE	1.601.361	8	5
10	CENTRO DE INVESTIGACION COOPERATIVA DE ENERGIAS ALTERNATIVAS FUNDACION, CIC energiGUNE FUNDAZIOA	755.914	2	0

(* Se cuentan sólo las participaciones y proyectos firmados durante el año 2023 en el pilar I de Horizonte Europa

Top 20 participantes* en Pilar I

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Nº	Organización	Financ. Neta UE (€)	Nº Particip.	Nº Lider.
11	FUNDACION BCMATERIALS - BASQUE CENTRE FOR MATERIALS, APPLICATIONS AND NANOSTRUCTURES	704.524	4	2
12	BCAM - BASQUE CENTER FOR APPLIED MATHEMATICS	598.437	3	2
13	FUNDACION TECNALIA RESEARCH & INNOVATION	421.252	5	0
14	ELYTT ENERGY SL	383.525	1	0
15	FUNDACION BIOFISICA BIZKAIA / BIOFISIKA BIZKAIA FUNDAZIOA	261.381	1	1
16	ATLAS MOLECULAR PHARMA SL	251.971	2	0
17	IKERLAN S. COOP	251.971	2	0
18	ASOCIACION INSTITUTO DE INVESTIGACION SANITARIA BIOBIZKAIA	212.403	2	1
19	POLYKEY POLYMERS SL	211.600	1	0
20	NEIKER-INSTITUTO VASCO DE INVESTIGACION Y DESARROLLO AGRARIO SA	95.200	1	1

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EUSKO JAURLARITZA
GOBIERNO VASCO



ZTBP²⁰₃₀
RIS3EUSKADI

Talentua garatuz, auzolana

