

COMPETITIVE FUNDING

The CNIO attracts a substantial proportion of its funding from external sources. Most of this funding comes from national and international funding bodies. In 2016, researchers at the CNIO were involved in 148 projects that received extramural funding.

CNIO actively participates 64 collaborative projects in total: 30 were international collaborative projects (4 of which are coordinated by the CNIO) and 34 collaborative projects at the national level (12 of them coordinated by the CNIO). The international collaborative projects were funded by institutions such as the European Commission through the 7 Framework Programme and Horizon 2020, the Interreg SUDOE Programme, the US National Institutes of Health (NIH), the US Department of Defense (DoD), the Melanoma Research Alliance, the

Paradifference Foundation, the Worldwide Cancer Research and the Volkswagen foundation

In addition to these collaborative projects, researchers at the CNIO attracted funding for projects carried out by individual groups. In 2016, 21 of these projects received international funds while 63 of them received national funding (mainly the Spanish Ministry of Economy, Industry and Competitiveness and the Institute of Health Carlos III). The international individual projects are funded by the European Commission (European Research Council (ERC) grants and the Marie Curie Actions), the Worldwide Cancer Research (WCR), the Howard Hughes Medical Institute (HHMI) and the European Foundation for the Study of Diabetes (EFSD).

INTERNATIONAL GRANTS COLLABORATIVE PROJECTS

EUROPEAN COMMISSION



7TH FRAMEWORK PROGRAMME (2007-2013)

COST ACTION

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Malats, Núria (coordinator)	COST Action EU Pancreas: An integrated European platform for pancreas cancer research: from basic science to clinical and public health interventions for a rare disease (Ref.: COST BM1204)

EURATOM

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Serrano, Manuel	RISK-IR: Risk, Stem Cells and Tissue Kinetics-Ionising Radiation (Ref.: 323267)

INNOVATIVE MEDICINES INITIATIVE JOINT UNDERTAKING (IMI JU)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Valencia, Alfonso	e-TOX: Integrating bioinformatics and chemoinformatics approaches for the development of expert systems allowing the <i>in silico</i> prediction of toxicities (Ref.: 115002)
Valencia, Alfonso	Open PHACTS: An open, integrated and sustainable chemistry, biology and pharmacology knowledge resource for drug discovery (Ref.: 115191-2)

INTEGRATED PROJECT (IP)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Valencia, Alfonso	BLUEPRINT: A BLUEPRINT of haematopoietic epigenomes (Ref.: 282510)
Valencia, Alfonso	ASSET: Analysing and striking the sensitivities of embryonal tumours (Ref.: 259348)
Valencia, Alfonso	RD-CONNECT: An integrated platform connecting registries, biobanks and clinical bioinformatics for rare disease research (Ref.: 305444)

MARIE CURIE ACTIONS (MCA)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Fernández-Capetillo, Óscar	ITN aDDress: Joint training and research network on chromatin dynamics and the DNA damage response (Ref.: 316390)

NETWORKS OF EXCELLENCE (NOE)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Barbacid, Mariano	EUROCANPLATFORM: A European platform for translational cancer research (Ref.: 260791)

SMALL OR MEDIUM-SCALE FOCUSED RESEARCH PROJECTS

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Malats, Núria	TransBioBC: Translation of novel Biomarkers for Bladder Cancer for clinical outcome prediction (Ref.: 601933)
Robledo, Mercedes	ENS@T- CANCER: European network for the study of adrenal tumours-structuring clinical research on adrenal cancers in adults. (Ref.: 259735)

ERA-NET ON TRANSLATIONAL CANCER RESEARCH (TRANSCAN)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Malats, Núria	Bio-PaC: Biomarkers of tumor recurrence in pancreatic cancer (financed by ISCIII, Ref.: AC14/00025)

ERA NET NEURON II: NETWORK OF EUROPEAN FUNDING FOR NEUROSCIENCE RESEARCH

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Malumbres, Marcos	MicroKin: Deciphering the multifaceted pathways underlying MCPH pathogenesis in the mouse and human (Financed by MEIC Ref.: PCIN-2015-007)

HORIZON 2020 (2014-2020)**RESEARCH INFRASTRUCTURES, INCLUDING E-INFRASTRUCTURES**

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Valencia, Alfonso	ELIXIR-EXCELERATE: Fast-track ELIXIR implementation and drive early user exploitation across the life-sciences (Ref.: 676559)
Valencia, Alfonso	OpenMinTeD: Mining INfrastructure for TExt and Data (Ref.: 654021)

MARIE SKŁODOWSKA-CURIE ACTIONS (MSCA)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Soengas, María S.	ITN IMMUTRAIN: Training network for the immunotherapy of cancer (Ref.: 641549)

SOCIETAL CHALLENGE 1: HEALTH, DEMOGRAPHIC CHANGE AND WELLBEING

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Benítez, Javier	BRIDGES: Breast cancer risk after diagnostic gene sequencing (Ref.: 634935)

INDUSTRIAL TECHNOLOGIES: ADVANCED MATERIALS AND NANOTECHNOLOGIES

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Hidalgo, Manuel	NoCanTher: Nanomedicine upscaling for early clinical phases of multimodal cancer therapy (Ref.: 685795)

INTERREG SUDOE PROGRAMME¹

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Valencia, Alfonso	European Network for Translational Research and Innovation in Oncology /Réseau Européen de Recherche translationnelle et d'Innovation en oncologie (Ref.: SOE1/P1/F0082)

MELANOMA RESEARCH ALLIANCE (MRA)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Peinado, Héctor; Soengas, María S. (coordinator)	Imaging and therapeutic targeting of lymphangiogenesis in melanoma (Ref.: 269626)
Soengas, María S. (coordinator)	Imaging and targeting dormant and pro-metastatic melanoma lesions <i>in vivo</i> (Ref.: 401181)

THE PARADIFFERENCE FOUNDATION

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Robledo, Mercedes	SDHB-related metastatic paraganglioma: search for the cure

US CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS (CDMRP)/US DEPARTMENT OF DEFENSE

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Peinado, Héctor	Radiolabeled exosomes for the early detection of metastases and to predict breast cancer premetastatic niche (Ref.: W81XWH-13-1-0249)
Peinado, Héctor	Organ-tropic metastatic secretomes and exosomes in breast cancer (Ref.: W81XWH-13-1-0427)
Peinado, Héctor	Exosomes in Development and Therapy of Malignant Mesothelioma (Ref.: W81XWH-14-1-0199)

US NATIONAL INSTITUTES OF HEALTH (NIH)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Peinado, Héctor	Characterization and functional analysis of breast cancer secreted exosomes in malignant progression (Ref.: U01CA169538)
Peinado, Héctor	Exosome-mediated transfer of c-MET to bone marrow progenitors promotes metastasis (Ref.: R01CA169416)
Valencia, Alfonso	GENCODE 2: Integrated human genome annotation: generation of a reference gene set (Ref.: HG007234-01)

VOLKSWAGEN FOUNDATION

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Lietha, Daniel	Nanoapertures loaded with individual molecules (Ref.: 86416-1)

WORLDWIDE CANCER RESEARCH (WCR, FORMERLY AICR)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Malats, Núria (coordinator)	Oral microbiotic profiles and its association with risk of pancreatic ductal adenocarcinoma (Ref.: 15-0391)

1. This Programme is cofunded by the European Regional Development Fund (ERDF)



INTERNATIONAL GRANTS INDIVIDUAL PROJECTS

EUROPEAN COMMISSION

7TH FRAMEWORK PROGRAMME (2007-2013)

EUROPEAN RESEARCH COUNCIL (ERC)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Fernández-Capetillo, Óscar	ERC Consolidator Grant RSHEALTH: Investigating the causes and consequences of replication stress in mammalian health (Ref.: 617840)

MARIE CURIE ACTIONS (MCA)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Al-Shahrour, Fátima	PERSMEDOMICS: Bioinformatics and integrative genomics for a novel personalized cancer therapy (Ref.: 334361)
Peinado, Héctor	WHRI COFUND ADIPOMET: Analyzing the crosstalk of tumor and adipose tissue during metastasis (Ref.: 608765)
Ramón, Santiago; Moreno, María	WHRI COFUND CAD_FL: Revealing the functional mechanism of CAD and its potential as a therapeutic target (Ref.: 608765)
Squatrito, Massimo	GLIDD: DNA Damage Response (DDR) signaling in tumor formation and therapeutic resistance of gliomas (Ref.: 618751)
Wagner, Erwin F.; Gago, Nuria	WHRI COFUND STEM-PSO: Unraveling the contribution of Epidermal and Non-Epidermal Progenitor (Ref.: 608765)

HORIZON 2020 (2014-2020)

EUROPEAN RESEARCH COUNCIL (ERC)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Efeyan, Alejo	ERC Starting Grant NutrientSensingVivo: The Physiology of Nutrient Sensing by mTOR (Ref.: 638891)
Hidalgo, Manuel	ERC Advanced Grant AVATAR: Integrating Genomics and Avatar Mouse Models to Personalize Pancreatic Cancer Treatment (Ref.: 670582)
Serrano, Manuel	ERC Advanced Grant CELLPASTICITY: New Frontiers in Cellular Reprogramming: Exploiting Cellular Plasticity (Ref.: 669622)

EUROPEAN FOUNDATION FOR THE STUDY OF DIABETES (EFSD)



PRINCIPAL INVESTIGATOR	PROJECT TITLE
Djouder, Nabil	Growth factors and nutrients in type 2 diabetes: role of URI in β cell plasticity and glucose homeostasis

HOWARD HUGHES MEDICAL INSTITUTE (HHMI)



PRINCIPAL INVESTIGATOR	PROJECT TITLE
Fernández-Capetillo, Óscar	Exploring the role of replicative stress in cancer and ageing (Ref.: 55007417)

MELANOMA RESEARCH ALLIANCE (MRA)



PRINCIPAL INVESTIGATOR	PROJECT TITLE
Soengas, María S.	Prognostic and therapeutic impact of lymphovascular niches in melanoma (Ref.: 348673)

PROSTATE CANCER FOUNDATION



PRINCIPAL INVESTIGATOR	PROJECT TITLE
Olmos, David	Integration of clinical, molecular and biological characteristics to define an aggressive subtype of prostate cancer based on deficient homologous recombination

WORLDWIDE CANCER RESEARCH (WCR, FORMERLY AICR)




PRINCIPAL INVESTIGATOR	PROJECT TITLE
Blasco, María	Targeting telomeres in cancer (Ref.: 16-1177)
Lietha, Daniel	Targeting regulatory mechanisms for allosteric cancer drug discovery (Ref.: 15-1177)
Malumbres, Marcos	New therapeutic strategies by inhibiting Mastl in breast tumors (Ref.: 15-0278)
Peinado, Héctor	Evaluation of obesity as a novel risk factor in metastasis (Ref.: 16-1244)
Pérez Moreno, Mirna A.	Defining the role of macrophage-derived Wnts in squamous cell carcinoma (Ref.: 15-1219)
Soengas, María S.	Harnessing endo/exocytosis for a coordinated targeting of melanoma cells, their vasculature and the immune system (Ref.: 15-1374)
Wagner, Erwin F.	Dissecting the roles of Fra proteins in lung adenocarcinoma progression and metastasis (Ref.: 13-0216)

US CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS (CDMRP)/US DEPARTMENT OF DEFENSE



PRINCIPAL INVESTIGATOR	PROJECT TITLE
Peinado, Héctor	Role of exosomes and Endoglin in Neurofibromatosis Progression (Ref.: W81XWH-16-1-0131)

NATIONAL GRANTS COLLABORATIVE PROJECTS

COMMUNITY OF MADRID / COMUNIDAD AUTÓNOMA DE MADRID ²	PRINCIPAL INVESTIGATOR	PROJECT TITLE
 Comunidad de Madrid	Barbacid, Mariano; Malumbres, Marcos (coordinator)	Programa ONCOCYCLE: El ciclo celular y los microRNAs en la autorenovación y diferenciación de células progenitoras (Ref.: S2011/BMD-2470)
	Blasco, María A.; Serrano, Manuel (coordinator)	Programa ReCaRe: Reprogramación en cáncer y regeneración (Ref.: S2011/BMD-2303)
	Campos-Olivas, Ramón; Lietha, Daniel	Programa BIPEDD 2: Plataforma integrada de bioinformática para el descubrimiento de nuevos fármacos basado en la estructura del receptor (Ref.: S2011/BMD-2457)
	González-Neira, Anna	Programa VISIONANIMAL: Modelos animales para el estudio de enfermedades de la visión (Ref.: S2011/BMD-2439)
	Martínez, Jorge L.	Programa ANGIOBODIES 2: Desarrollo de anticuerpos recombinantes para uso terapéutico y diagnóstico en angiogénesis patológica y para la identificación de nuevos marcadores angiogénicos (Ref.: S2011/BMD-2312)
	Montoya, Guillermo	Programa INTERACTOMICS: Interactomics del centrosoma (Ref.: S2011/BMD-2305)
	Robledo, Mercedes	Programa TIRONET: Fisiopatología tiroidea: Mecanismos implicados en cáncer, autoinmunidad y mecanismo de acción de hormonas tiroideas (Ref.: S2011/BMD-2328)
	Soengas, María S.	Programa NANODENMED: Nanosistemas dendríticos como agentes y vectores terapéuticos en distintas aplicaciones biomédicas (Ref.: S2011/BMD-2351)
Real, Francisco X.	Programa CEL-DD: Linajes y competición celular en el desarrollo y la enfermedad (Ref.: P2010/BMD-2315)	

INSTITUTE OF HEALTH
CARLOS III / INSTITUTO DE
SALUD CARLOS III (ISCIII)SUB-PROGRAMME OF COOPERATIVE HEALTH RESEARCH THEMATIC NETWORKS/SUBPROGRAMA DE REDES TEMÁTICAS DE INVESTIGACIÓN COOPERATIVA (RETICS)³

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Cigudosa, Juan C.	Red Temática de Investigación Cooperativa en Cáncer (RTICC) (Group RD12/0036/0037)
Malats, Núria	Red Temática de Investigación Cooperativa en Cáncer (RTICC) (Group RD12/0036/0050)
Real, Francisco X.	Red Temática de Investigación Cooperativa en Cáncer (RTICC) (Group RD12/0036/0034)

SUB-PROGRAMME OF GRANTS FOR RESEARCH SUPPORT PLATFORMS IN HEALTH SCIENCES AND TECHNOLOGY/
SUBPROGRAMA DE AYUDAS PARA PLATAFORMAS DE APOYO A LA INVESTIGACIÓN EN CIENCIAS Y TECNOLOGÍAS DE LA SALUD⁴

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Benítez, Javier	Plataforma de recursos biomoleculares y bioinformáticos, PRB ² (PT13/0001/0005)
Morente, Manuel M. (coordinator)	Plataforma de Biobancos (Coordination node and group (PT13/0010/0001)

2. This Programme is cofunded by European Structural and Development Funds (ERDF and ESF)



3. This Programme is cofunded by the European Regional Development Fund (ERDF)



Muñoz, Javier	Plataforma de recursos biomoleculares y bioinformáticos, PRB ² (Group PT13/001/0010)
Valencia, Alfonso	Plataforma de recursos biomoleculares y bioinformáticos, PRB ² (Group PT13/0001/0030)

RESEARCH PROJECTS IN HEALTH⁵

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Blasco, María A.	Cellular aging in first episode early-onset psychosis. Collaboration with Gregorio Marañón Hospital (Ref.: PI14/00397)
Blasco, María A.	Safety and efficacy of gene therapy with telomerase in acute myocardial infarction. Impact on ventricular remodeling in an experimental porcine model. Collaboration with Gregorio Marañón Hospital (Ref. DTS15/00095)
PRINCIPAL INVESTIGATOR	PROJECT TITLE
Hidalgo, Manuel (coordinator)	Chemosensitivity profiles for the personalized therapy of advanced colorectal cancer (Ref.: EC11-017)
Hidalgo, Manuel (coordinator)	Personalized treatment for pancreatic cancer patients (Ref.: EC10-278)
Hidalgo, Manuel (coordinator)	Personalized treatment for pancreatic cancer patients II (Ref.: EC11-005)

MINISTRY OF HEALTH, SOCIAL
SERVICES AND EQUALITY
/ MINISTERIO DE SANIDAD,
SERVICIOS SOCIALES E
IGUALDAD (MSSSI)MINISTRY OF ECONOMY,
INDUSTRY AND
COMPETITIVENESS /
MINISTERIO DE ECONOMÍA,
INDUSTRIA Y COMPETITIVIDAD
(MEIC)

NATIONAL PLAN FOR SCIENTIFIC AND TECHNICAL RESEARCH AND INNOVATION (2013-2016)

EXCELLENCE NETWORKS / REDES DE EXCELENCIA

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Barbacid, Mariano (coordinator); Blasco, María A.; Fernández-Capetillo, Óscar; Malumbres, Marcos; Real, Francisco X.; Serrano, Manuel	OncoBIO: Cancer biology (Ref.: SAF2014-57791-REDC)
Malumbres, Marcos (coordinator)	CellSYS: Functional and Systems Biology of Cell Proliferation (Ref.: BFU2014-52125-REDT)
Serrano, Manuel (coordinator)	SENESTHERAPY: Cell senescence in cancer therapy (Ref.: SAF2014-56720-REDT)

CHALLENGES-COLLABORATION/RETOS-COLABORACIÓN⁶

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Djouder, Nabil	NRCANCER- Desarrollo de nueva terapia antitumoral basada en nicotinamida-ribosido (Ref.: RTC-2016-5431-1)
Soengas, María S.	Ensayo Clínico Fase I de BO-110: un nuevo tratamiento para melanoma avanzado y otros tumores (Ref.: RTC-2014-2442-1)

4. This Programme is cofunded by the European Regional Development Fund (ERDF)



5. This Programme is cofunded by the European Regional Development Fund (ERDF)



SPANISH ASSOCIATION AGAINST CANCER / ASOCIACIÓN ESPAÑOLA CONTRA EL CÁNCER (AECC)


PRINCIPAL INVESTIGATOR	PROJECT TITLE
Barbacid, Mariano (coordinator)	A multifaceted approach to target pancreatic cancer (Ref.: GC16173694)
Benítez, Javier	Cancer and immunodeficiency in children (Ref.: CEI14142070)
Malats, Núria; Real, Francisco X. (coordinator)	Invasive bladder cancer: towards precision medicine (Ref.: GCB14142293)
González Pisano, David; Peinado, Héctor; Soengas, María S. (coordinator)	Distinct routes of metastatic dissemination in different melanoma subtypes. Implications in the validation of new tumor biomarkers and therapeutic targets (Ref.: GCB15152978)

LA MARATÓ TV3 FOUNDATION / FUNDACIÓ LA MARATÓ TV3


PRINCIPAL INVESTIGATOR	PROJECT TITLE
Barbacid, Mariano	Molecular analysis of Capicua, a novel tumor suppressor involved in RTK signaling and transcriptional repression (Ref.: 20131730/31)
Fernández-Capetillo, Óscar	Exploring synthetic lethal interactions between PARP and the DNA damage response in cancer treatment (Ref.: 20134130/31)
Soengas, María S.	Role of RNA binding proteins in melanoma progression: searching for new diagnostic markers and therapeutic targets (Ref.: 20131430/31)

MADRI+D FOUNDATION / FUNDACIÓN PARA EL CONOCIMIENTO MADRI+D


PRINCIPAL INVESTIGATOR	PROJECT TITLE
Dean's Office for Academic Affairs; Soengas, María S.	European Researchers' Night 2014, organized by Madri+d Foundation and founded by European Commission on the framework of H2020 Programme

6. This Programme is cofunded by the European Regional Development Fund (ERDF)


NATIONAL GRANTS INDIVIDUAL PROJECTS
INSTITUTE OF HEALTH CARLOS III / INSTITUTO DE SALUD CARLOS III (ISCIII)

RESEARCH PROJECTS IN HEALTH⁷

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Benitez, Javier	Biologic and genetic bases of telomere shortening in hereditary breast cancer. Searching for new high susceptibility genes in <i>BRCA1</i> families with short telomeres (Ref.: PI12/00070)
Cascón, Alberto	Exome sequencing of trios, mother-father-proband, in pediatric patients with multiple pheochromocytomas/paragangliomas (Ref.: PI12/00236)
Cascón, Alberto	Next generation sequencing of genes directly and indirectly involved in the Krebs cycle, applied to pheochromocytomas/paragangliomas with hypermethylated phenotype (Ref.: PI15/00783)
Cigudosa, Juan C.	Genetic diagnostics by next-generation-sequencing in myeloid neoplasias: step towards its clinical use and characterization studies on the mutation genomic and functional pathological effects (Ref.: PI12/00425)
García, María José	Definition of novel ovarian cancer susceptibility genes using next-generation sequencing technology and a LOH-candidate region approach in high-risk non- <i>BRCA1/BRCA2</i> patients (Ref.: PI12/01319)
González-Neira, Anna	Personalizing breast cancer treatment: prediction model construction for taxanes and anthracyclines efficacy through the integration of different genomic approaches (Ref.: PI12/00226)
Hidalgo, Manuel	Targeting Pancreatic Cancer Stroma (Ref.: PI13/00230)
Malats, Núria	Aetiology of pancreas cancer: Application of "omics" technologies in the assessment of risk factors (Ref.: PI12/00815)
Malats, Núria	Building and validation of risk prediction models for pancreas cancer. The application of a multi-omics approach (Ref.: PI15/01573)
Molina, María Esther	Dietary patterns, antioxidants and biomarkers of oxidant-antioxidant status in the EPIC-Granada and EPIC-Gipuzkoa (European Prospective Investigation into Cancer and Nutrition) cohort (Ref.: PI12/00002)
Pérez de Castro, Ignacio	An integrative Study of Chromosomal Instability and Cancer: looking for prognostic markers and therapeutic opportunities (Ref.: PI14/00227)
Olmos, David	Homologous recombination DNA repair deficiency related chromosomal instability in aggressive prostate cancer (Ref.: PI13/01287)
Quintela, Miguel Ángel	From systems biology to clinical trials: high-throughput studies and definition of predictive factors and resistance mechanisms against breast cancer drugs (Ref.: PI13/00430)
Robledo, Mercedes	Prognostic profiles in endocrine tumours identified by next generation sequencing, and definition of markers with clinical utility (Ref.: PI14/00240)
Rodríguez, Sandra	Ewing Sarcoma Model: induction of the t(11;22) translocation in human mesenchymal stem and iPS cells by the CRISPR-Cas9 system and study of the cellular context and other secondary events role (Ref.: PI14/01884)
Squatrito, Massimo	Investigating the role of Fra1 and Fra2 in glioma tumor formation and treatment response (Ref.: PI13/01028)
Urioste, Miguel	PTEN-hamartoma tumour syndrome research: Phenotypic spectrum, associated cancers, molecular basis and search of new gene (Ref.: PI14/00459)

7. This Programme is cofunded by the European Regional Development Fund (ERDF)



**MINISTRY OF ECONOMY,
INDUSTRY AND
COMPETITIVENESS
/ MINISTERIO DE
ECONOMÍA, INDUSTRIA Y
COMPETITIVIDAD (MEIC)**



NATIONAL R&D&I PLAN 2008-2011	
SUB-PROGRAMME FOR NON-TARGETED FUNDAMENTAL RESEARCH PROJECTS / SUBPROGRAMA DE PROYECTOS DE INVESTIGACIÓN FUNDAMENTAL NO ORIENTADA	
PRINCIPAL INVESTIGATOR	PROJECT TITLE
Uluçkan, Özge	PsorTACEmiR21: Investigating the role of microRNA21/TIMP-3/TACE in psoriasis - evaluating the potential therapeutic implications (Ref.: SAF2012-39670)
Valencia, Alfonso	Development of biocomputing systems and subjacent computational methods for the analysis of oncologic personalised therapies (Ref.: BIO2012-40205)
Wagner, Erwin F.	HepAP-1: From liver physiology to hepatitis and hepatocellular carcinoma (HCC): role of AP-1 (Fos/Jun) proteins (Ref.: BFU2012-40230)
NATIONAL PLAN FOR SCIENTIFIC AND TECHNICAL RESEARCH AND INNOVATION (2013-2016)	
CENTRES AND UNITS OF EXCELLENCE "SEVERO OCHOA" SUB-PROGRAMME / SUBPROGRAMA DE APOYO A CENTROS Y UNIDADES DE EXCELENCIA 'SEVERO OCHOA'	
PRINCIPAL INVESTIGATOR	PROJECT TITLE
Blasco, María A.	Center of Excellence "Severo Ochoa" (Ref.: SEV-2015-0510)
R&D EXCELLENCE PROJECTS / PROYECTOS DE I+D EXCELENCIA ⁸	
PRINCIPAL INVESTIGATOR	PROJECT TITLE
Méndez, Juan	REPLICON: Molecular mechanisms that control eukaryotic DNA replication (Ref.: BFU2013-49153-P)
Ramón, Santiago	CADstructure: Structural determination of the architecture of CAD, an antitumoral target that controls the biosynthesis of pyrimidines (Ref.: BFU2013-48365-P)
Ruiz, Sergio	RSHIPS: Replicative stress during somatic cell reprogramming (Ref.: SAF2013-49147-P)
CHALLENGES-RESEARCH /RETOS-INVESTIGACIÓN ⁹	
PRINCIPAL INVESTIGATOR	PROJECT TITLE
Barbacid, Mariano	PANTHER: A three prong strategy to fight pancreatic ductal adenocarcinoma (Ref.: SAF2014-59864-R)
Blasco, María A.	TeloHealth: Telomeres, telomerase and disease (Ref.: SAF2013-45111-R)
Djouder, Nabil	MILC: Metabolic inflammation in liver cancer (Ref.: SAF2013-46089-R)
Efeyan, Alejo	NUTRIENTOR: Physiology of nutrient sensing and signaling by the mTOR complex 1 (Ref.: SAF2015-67538-R)
Fernández-Capetillo, Óscar	BREAKINGRAD: Exploring the limits of radioresistance in mammals (Ref.: SAF2014-59498-R)
Losada, Ana	COHESIN: Cohesin function and regulation: a multidisciplinary approach (Ref.: BFU2013-48481-R)

8. This Programme is cofunded by the European Regional Development Fund (ERDF)



9. This Programme is cofunded by the European Regional Development Fund (ERDF)



Malumbres, Marcos	Cyclexit: Physiological and therapeutic relevance of mitotic kinases and phosphatases (Ref.: SAF2015-69920-R)
Muñoz, Daniel	REMODEL: Cellular senescence as an active player in tissue remodeling (Ref.: BFU2014-60020-R)
Muñoz, Javier	steMS: Understanding ground state pluripotency of embryonic stem cells through mass spectrometry-based proteomics (Ref.: SAF2013-45504-R)
Ortega, Sagrario	HaploEScancer: Haploid ES cells for cancer research (Ref.: SAF2013-44866-R)
Osorio, Ana	IPAGEN: Exploring the mechanism of action of PARP inhibitors in breast and ovarian cancer patients. Identification of new genetic predictors of response (Ref.: SAF2014-57680-R)
Pastor, Joaquín	CDK8eDD: CDK8 a novel target in cancer therapy. Relevance of CDK8 kinase activity, discovery and optimization of selective orally bioavailable CDK8 inhibitor (Ref.: SAF2013-44267-R)
Peinado, Héctor	METASTAXOMES: Role of tumor-secreted exosomes in lymph node microenvironment reprogramming during metastasis (Ref.: SAF2014-54541-R)
Pérez Moreno, Mirna A.	ESSENCE: Extrinsic control of the skin stem cell niche in homeostasis and cancer (Ref.: BFU2015-71376-R)
Real, Francisco X.	TRANS-PDAC: Transcriptional control of pancreatic cancer development (Ref.: SAF2015-70553-R)
Rodríguez, Cristina	PREDICT: Identification of genetic markers and physiopathologic factors predictive of the peripheral neuropathy of paclitaxel and of other oncologic drugs: massive sequencing of candidate genes (Ref.: SAF2015-64850-R)
Serrano, Manuel	CANCERAGE: Cancer and ageing-associated diseases: new frontiers and new strategies (Ref.: SAF2013-48256-R)
Soengas, María S.	MEL-STOP: Vesicular trafficking in melanoma progression and treatment response (Ref.: SAF2014-56868-R)
Valiente, Manuel	ReACTIVE BrainMET: Dissecting the role of reactive astrocytes in brain metastasis (Ref.: SAF2014-57243-R)
Valencia, Alfonso	EPIC: Expression Patterns of Inverse Comorbidity (Ref.: BFU2015-71241-R)
Wagner, Erwin F.	CANPSOR: Investigating Cancer Risk in Psoriasis (Ref.: SAF2015-70857-R)

EXCELLENCE-EUROPE / EUROPA EXCELENCIA

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Rodríguez, Cristina	ANGIOMARKER: Predicting antiangiogenic drug response in cancer: markers and mechanisms (Ref.: SAF2015-70820-ERC)
Valiente, Manuel	BrainMET: Deconstructing metastatic disease in the brain (Ref.: SAF2015-62547-ERC)

RESEARCH-EUROPE / EUROPA INVESTIGACIÓN

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Valencia, Alfonso	CancerCureAdvisor: An open bioinformatics platform for personalized treatment of cancer (Ref.: EUIN2015-62887)

NETWORKS AND SCIENTIFIC MANAGERS-EUROPE / EUROPA REDES Y GESTORES

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Blasco, María A.	CNIO in Horizon 2020: support for proposal preparation and project management (Ref.: EUC2014-51617)

YOUNG RESEARCHERS PROGRAM / PROGRAMA JÓVENES INVESTIGADORES¹⁰

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Álvarez, Mónica	GPGenCan: Functional relevance of Greatwall/PP2A pathway in the maintenance of genomic stability: therapeutic implications in cancer (Ref.: SAF2014-60442-JIN)
Lecona, Emilio	UBQREP: Modulation of DNA Replication by ubiquitination of chromatin proteins (Ref.: BFU2014-55168-JIN)

SCIENTIFIC INFRASTRUCTURES / INFRAESTRUCTURA CIENTÍFICO-TECNOLÓGICAS¹¹

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Muñoz, Javier	Sistema cromatográfico UHPLC acoplado a Espectrómetro de Masas de alta resolución para estudios de proteómica avanzada (Ref.: CNIO15-EE-2855)
Pisano, David G.	Clúster SMP de Análisis HPC (Ref.: CNIO15-EE-3845)

ASTRAZENECA FOUNDATION / FUNDACIÓN ASTRAZENECA

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Olmos, David	Cáncer de próstata familiar y esporádico asociado a alteraciones genéticas, germinales y/o somáticas, en genes de la reparación del DNA
Quintela, Miguel Ángel	Reprogramación inmune en cáncer de mama preexpuesto a antiangiogénicos inductores de apoxia

FERO FOUNDATION / FUNDACIÓN FERO

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Peinado, Héctor	Liquid biopsy by nanoplasmonic detection of exosomes: predicting response to (immuno- and radio)-therapy
Valiente, Manuel	Predictive biomarkers for brain metastasis in small cell lung cancer

SPANISH SOCIETY OF MEDICAL ONCOLOGY / SOCIEDAD ESPAÑOLA DE ONCOLOGÍA MÉDICA (SEOM)

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Olmos, David	Validación de una firma de expresión con utilidad pronóstica en cáncer de próstata resistente a la castración en una cohorte multi-institucional de pacientes tratados con docetaxel

ATRESMEDIA CORPORATION / ATRESMEDIA CORPORACIÓN

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Fernández-Capetillo, Óscar	Premio Constantes y Vitales en la categoría "Joven talento en investigación biomédica" 2015 (A3M 2015)

OLGA TORRES FOUNDATION / FUNDACIÓN OLGA TORRES

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Djouder, Nabil	Understanding the role of growth factors and nutrients in inflammatory bowel disease and colon cancer

FUNDACIÓN PROYECTO NEUROFIBROMATOSIS

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Peinado, Héctor	Uso de exomas circulantes como marcadores de progresión en neurofibromatosis y para la determinación de nuevas estrategias terapéuticas

BBVA FOUNDATION / FUNDACIÓN BBVA

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Valencia, Alfonso	PerMed: Precision Medicine from Big Data to Cognitive Computing CNIO (Ref.: 76/2016)

FUNDACIÓN PFIZER

PRINCIPAL INVESTIGATOR	PROJECT TITLE
Peinado, Héctor	Tumour exosome integrins determine organotropic metastasis

10. This Programme is cofunded by the European Regional Development Fund (ERDF)



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