Building bridges: 22 Postdoctoral talent opportunities in biomedicine at IDIBAPS (Barcelona, Spain) for MSCA Fellowships.

Building Bridges

2025





GPE2024-001427-P funded by MICIU/AEI/10.13039/501100011033



IDIBAPS (FUNDACIÓ DE RECERCA CLÍNIC BARCELONA – INSTITUT D'INVESTIGACIONS BIOMÈDIQUES AUGUST PI I SUNYER) is launching a proactive initiative entitled Building Bridges to connect worldwide postdoctoral talent with IDIBAPS' Principal Investigators (PIs). These excellent PIs are eager to showcase their specific fields of research along with the scientific and career opportunities available in their labs. The main purpose of this initiative is to match potential applicants for the <u>next MSCA Postdoctoral Fellowships Call</u> 2025 from the European Commission with IDIBAPS PIs.

About IDIBAPS: It is a biomedical research center of excellence located at the Clínic Campus in Barcelona, with a clear international focus. The IDIBAPS research community is composed of more than 2,000 people and a hundred multidisciplinary groups that conduct impactful translational research aimed at solving biological and clinical questions relevant to human health. This is evidenced by the over 1,500 original articles published annually, making the institution one of the leading biomedical research centers in Spain. IDIBAPS has a strong track record in European projects, with a relevant number of Marie Sklodowska-Curie projects being granted along different framework programmes. The Clínic Campus provides a high-level research and innovation environment, including the Hospital Clínic de Barcelona, a reference hospital committed to healthcare, research, and teaching, covering virtually all medical and surgical specialties, and the Faculty of Medicine and Health Sciences of the University of Barcelona, established in 1843 and today one of the most prestigious health faculties in Spain and the world. Since 2015, IDIBAPS holds the HR Excellence in Research accreditation from the European Commission. It is a CERCA center and is accredited as a Health Research Institute by the Spanish Instituto de Salud Carlos III (ISCIII). It also holds also the recognition as Excellent Centre by the Spanish Association Against Cancer (AECC).

• <u>About Building Bridges initiative</u>: We are seeking motivated postdoctoral candidates who wish to receive multidisciplinary training in an environment of scientific excellence. The <u>MSCA Postdoctoral Fellowship 2025</u> can provide you with the opportunity to develop your ideas in an excellent research environment with attractive working conditions (2-year contract including competitive compensation and additional allowances for research, training, and networking opportunities). Below is the list of research lines and the Principal Investigators promoting them.

Before starting your application process please double-check the following eligibility criteria of <u>MSCA Postdoctoral Fellowship call 2025</u>:

- i) Have a PhD awarded before the call deadline (10th September 2025)
- ii) Have less than 8 years of research experience after your PhD
- iii) Comply with the mobility rule: you must not have resided or carried out your main activity in Spain for more than 12 months in the 36 months immediately before the call deadline (10th September 2025).







The application process for interested applicants consists of the following stages:

- Establish a match with a PI from IDIBAPS by jointly agreeing on a specific project. Each PI above will select a maximum of 1 candidate. You can choose one or two priorities in the <u>following application form</u> **before May 18**th.
- Possibility of attending to the "Building Bridges online event" that will take place on May 12th from 13:00 to 15:00 (Spanish time). In this informative and showcase session, you will learn about IDIBAPS and the MSCA Postdoctoral Fellowships while having the chance to meet our PIs in person. Register at this <u>link</u> to attend.
- 3. Engage with the European Projects office in the proposal development process.
- 4. Submit not later than 27th August a competitive proposal to the European Commission proposing an original research project together with a PI from IDIBAPS.

If you and a Principal Investigator form a perfect match before May 30th, 2025, you will receive specific support from IDIBAPS:

- **For proposal preparation:** Offering you advice and support from the European Project Office. The goal is to prepare a proposal with a high chance of success.
- Before and during your IDIBAPS stay, if your MSCA Postdoctoral Fellowship proposal 2025 is successful: Assisting you with mobility issues, especially if you come from outside Europe, and supporting you during the onboarding process and throughout your stay for training and career development purposes. You will be invited to join the Postdoctoral community as well as other initiatives beneficial for your personal development. Moreover, the Academic Coordination team will be continuously at your disposal as your key contact point. Secondments to other institutions or private companies can also be included.

Do not hesitate to contact us for any further questions at <u>academic@recerca.clinic.cat</u>.





GPE2024-001427-P funded by MICIU/AEI/10.13039/501100011033



List of research lines

New therapeutic and diagnostic strategies in liver diseases. Manuel Morales-Ruiz4
Implications of vSMCs in Aortic diseases (Williams And Marfan Syndromes). Victoria Campuzano Uceda
Cannabinoids in Huntington's Disease: From Mechanisms to Clinical Benefits. Silvia Ginés Padros
Seeking causes and solutions for the early-onset colorectal cancer rising tide. Sergi Castellví-Bel
Decoding Brain-Metabolism Circuits in Obesity and Diabetes. Marc Claret
Neuroplasticity of the female brain. Roberta Haddad Tovolli9
Cell therapy for diabetes using fibroblast-derived beta-like cells. Rosa Gasa
Innate immune system in chronic liver disease. Joan Clària
Advanced CAR-T Cell Therapies for Multiple Myeloma. Carlos Fernández de Larrea 12
Mechanisms and Modeling of Liver Vascular Thrombosis. Virginia Hernández-Gea 13
Gastric cancer prevention by molecular characterization in high-risk populations. Leticia Moreira
Breaking the cycle: Targeting autophagy and CIN to outsmart cancer. Caroline Mauvezin
Immunometabolic Regulation of Cell Plasticity in Health and Disease. Antonio Postigo . 16
Interplay between adaptive and innate immune cells in Transplantion. Pedro Ventura- Aguiar
Extracellular Vesicle-Mediated Mechanisms in Cardiovascular Disease and Repair. Ana Paula Dantas
Sex-specific mitochondrial modulators enhancing immunotherapy in liver cancer. Albert Morales
Immunosuppressive role of cancer-associated fibroblasts in hepatobiliary tumors. Silvia Affò
Clinical phenotyping & progression markers of Parkinson's disease. MJ Martí & M Ezquerra 21
Mechanisms of RV dysfunction beyond pressure in pulmonary hypertension. Ana García Álvarez
Exploring the phospho-signalling of mutant LRRK2 in Parkinson's disease patients. Ruben Fernández-Santiago
New targets to attack mantle cell lymphoma through proteomics strategies. Virginia Amador
Exercise-derived extracellular vesicles in type 2 diabetes management. Joan-Marc Servitja







New therapeutic and diagnostic strategies in liver diseases. <u>Manuel Morales-Ruiz</u>

<u>morales@clinic.cat</u>

orcid.org/0000-0002-9074-2272

Description and keywords of the research line/topic:

Chronic liver disease causes fibrosis and regeneration failure, often ending in cirrhosis or cancer. We develop diagnostics and advanced therapies, including nanotechnology, to tackle this major health issue with high social and economic impact.

Liver fibrosis, liver regeneration, nanotechnology, advanced therapies, vascular dysfunction.

Research group:

<u>Translational research group in new therapeutic and diagnostic strategies in liver</u> <u>diseases</u>

Keywords of desired experiences of the postdoctoral candidates:

Liver fibrosis, liver regeneration, nanotechnology, molecular biology, bioinformatics.

Opportunities for scientific and career development for the postdoctoral candidates:

Our multidisciplinary team explores liver disease through nanomedicine, diagnosis and advanced therapies. We offer opportunities of career development in molecular and translational research, fostering scientific excellence and career growth.







Implications of vSMCs in Aortic diseases (Williams And Marfan Syndromes). <u>Victoria Campuzano Uceda</u>

vcampuzanou@ub.edu

orcid.org/0000-0001-8128-2641

Description and keywords of the research line/topic:

Discover which are the molecular mechanisms involved in vSMCs in Aortic diseases. Understanding the causes is a requirement in order to develop effective treatments. This knowledge would translate into real benefits for patients in the medium term.

VSMCs, Mouse models, SVAS-Aneurism, Antioxidant.

Research group:

Vascular cell biology

Keywords of desired experiences of the postdoctoral candidates:

Mouse Models, Cell Culture, Gene expression, Protein expression, Inmunohistology.

Opportunities for scientific and career development for the postdoctoral candidates:

Small group focused on preclinical models with a translational approach. Numerous international collaborations. Funded by national and international projects. Academic environment with extensive experience with students.







Cannabinoids in Huntington's Disease: From Mechanisms to Clinical Benefits. <u>Silvia Ginés Padros</u>

<u>silviagines@ub.edu</u>

orcid.org/0000-0002-9479-8185

Description and keywords of the research line/topic:

This project investigates cannabinoid therapies (THC/CBD vs. CBD-only) for early cognitive and emotional symptoms in Huntington's disease, aiming to support broader clinical use in neurodegenerative disorders

Neurodegenerative diseases, Cannabinoids, Cognition and depression, Transcriptomics, Functional neuroimaging.

Research group:

Pathophysiology and treatment of neurodegenerative disorders

Keywords of desired experiences of the postdoctoral candidates:

Animal behavior, Sterotaxic injections, Molecular biology, Biochemistry, Cellular biology.

Opportunities for scientific and career development for the postdoctoral candidates:

Uncover how cannabinoid therapies affect neuropsychiatric and memory symptoms in Huntington's disease using cutting-edge techniques, in a dynamic, collaborative environment with opportunities for skill-building and career growth.







Seeking causes and solutions for the early-onset colorectal cancer rising tide. <u>Sergi Castellví-Bel</u>

sbel@recerca.clinic.cat

orcid.org/0000-0003-1217-5097

Description and keywords of the research line/topic:

Multiomics project in young colorectal cancer. We seek to detect alterations in the germline genome and transcriptome, and somatic, metabolomic and microbiomic insults. Final goals are to improve clinical management and develop prevention measures.

Genomics, multiomics, colorectal cancer, early-onset disease, data integration.

Research group:

Genetic predisposition to gastrointestinal cancer

Keywords of desired experiences of the postdoctoral candidates:

Human genetics, bioinformatics, cancer biology, cell biology, molecular biology.

Opportunities for scientific and career development for the postdoctoral candidates:

We are a multidisciplinary research group open to grow and diversify its capabilities with new members. We work to find the driving force behind gastrointestinal cancer focusing on hereditary causes but considering other risk/life style factors.







Decoding Brain-Metabolism Circuits in Obesity and Diabetes. <u>Marc Claret</u>

mclaret@recerca.clinic.cat

orcid.org/0000-0001-7766-9296

Description and keywords of the research line/topic:

The research will focus on how the brain regulates systemic metabolism, focusing on novel neuronal populations and mitochondrial programs involved in energy balance, particularly in the context of obesity and type 2 diabetes.

Hypothalamus, neuron, mitochondria, metabolism, obesity.

Research group:

Neuronal control of metabolism (NeuCoMe)

Keywords of desired experiences of the postdoctoral candidates:

Neuroscience, metabolism, snRNAseq, mitochondrial biology, mouse genetics.

Opportunities for scientific and career development for the postdoctoral candidates:

We offer a dynamic and creative research environment with a strong collaborative spirit, mentoring, and excellent career development opportunities. Implementation and training in a wide range of cutting-edge technologies.







Neuroplasticity of the female brain. Roberta Haddad Tovolli

haddad@recerca.clinic.cat

orcid.org/0000-0002-1739-3205

Description and keywords of the research line/topic:

We use mouse genetics and neuroscience tools to study how pregnancy-induced neuroplasticity drives changes in feeding and maternal behaviors and its long-term effects on offspring health.

Female neurobiology, Neuroendocrinology, Pregnancy, Feeding behavior, Maternal behavior.

Research group:

Neuronal control of metabolism (NeuCoMe)

Keywords of desired experiences of the postdoctoral candidates:

Mouse genetics, Neuronal manipulation, Omics (single-cell RNAseq, proteomics), Behavior.

Opportunities for scientific and career development for the postdoctoral candidates:

We are a multidisciplinary group combining neuroscience and metabolism, with wide range of cutting-edge technology. We foster scientific growth through collaborations, advanced training, and mentoring for career development.







Cell therapy for diabetes using fibroblast-derived beta-like cells. <u>Rosa Gasa</u>

rgasa@recerca.clinic.cat

orcid.org/0000-0001-5639-5441

Description and keywords of the research line/topic:

Loss of pancreatic beta cells is a hallmark of diabetes. We are developing direct reprogramming approaches to convert human skin fibroblasts into functional betalike cells to restore beta cell mass.

Diabetes, cell therapy, reprogramming, islet, chromatin, transdifferentiation.

Research group:

Translational research in diabetes, lipids and obesity

Keywords of desired experiences of the postdoctoral candidates:

Islet biology, epigenetics, cell culture, RNA-seq, basic informatic knowledge to support data analysis.

Opportunities for scientific and career development for the postdoctoral candidates:

We are a small, dynamic, and collaborative group seeking a motivated postdoctoral fellow to lead the epigenetic analysis of fibroblast-to-beta-like cell reprogramming and advance this therapeutic strategy.







Innate immune system in chronic liver disease. Joan Clària

jclaria@clinic.cat

orcid.org/0000-0003-4333-7749

Description and keywords of the research line/topic:

Our group investigates the cellular and molecular mechanisms underlying the inadequate immune response in patients with chronic liver disease, who exhibit a disproportionate systemic hyperinflammatory response accompanied by immunosuppression.

Neutrophils, macrophages, signalling pathways, lipid mediators, resolution of inflammation.

Research group:

Inflammation and liver disease

Keywords of desired experiences of the postdoctoral candidates:

Immunology, pathophysiology, liver and adipose tissue biology.

Opportunities for scientific and career development for the postdoctoral candidates:

Our multidisciplinary research group comprises junior researchers and postdoctoral and predoctoral students and has strong expertise in cell culture (in vitro) and experimental models of liver disease (in vivo) to perform mechanistic studies.







Advanced CAR-T Cell Therapies for Multiple Myeloma. Carlos Fernández de Larrea

<u>cfernan1@clinic.cat</u>

orcid.org/0000-0003-4930-9255

Description and keywords of the research line/topic:

Developing next-gen CAR-T therapies targeting BCMA and novel antigens to improve efficacy and persistence in multiple myeloma treatment.

CAR-T cells, Multiple Myeloma, Immunotherapy, Cellular Engineering, Antigen Targeting.

Research group:

Myeloma, amyloidosis, macroglobulinemia and other gammapathies

Keywords of desired experiences of the postdoctoral candidates:

CAR-T development, Molecular Biology, Immunogenetics, Clinical Trials, Biostatistics.

Opportunities for scientific and career development for the postdoctoral candidates:

Leading-edge group offering training in innovative CAR-T cell therapies, high-impact publications, and international collaboration opportunities.







Mechanisms and Modeling of Liver Vascular Thrombosis. <u>Virginia Hernández-Gea</u>

vihernandez@ clinic.cat

orcid.org/0000-0001-7937-984X

Description and keywords of the research line/topic:

Interdisciplinary mechanistic research on liver vascular thrombosis to uncover immune-endothelial drivers, identify new therapies, and develop preclinical models using patient-derived cells and organ-on-chip technology.

Portal hypertension, vascular biology, immune-vascular interactions, bio engineering, single-cell omics.

Research group:

Regulation of liver microcirculation in cirrhosis and hepatic vascular diseases

Keywords of desired experiences of the postdoctoral candidates:

Collaborative mindset, scientific curiosity, molecular biology, transcriptomics, computational analysis.

Opportunities for scientific and career development for the postdoctoral candidates:

Internationally recognized group in liver vascular diseases led by physicianscientists; multidisciplinary, translational focus; strong training and networking opportunities; pioneering research with real clinical impact and career growth.







Gastric cancer prevention by molecular characterization in high-risk populations. <u>Leticia Moreira</u>

lmoreira@clinic.cat

orcid.org/0000-0002-4518-8591

Description and keywords of the research line/topic:

Select individuals at high-risk of gastric cancer by the identification of potential germline genetic alterations and molecular signatures using multiomics approach (genome, miRNome, methylome, metabolome) to improve prevention and early diagnosis.

Genomics, multiomics, gastric cancer, high-risk, prevention.

Research group:

Genetic predisposition to gastrointestinal cancer

Keywords of desired experiences of the postdoctoral candidates:

Human genetics, bioinformatics, biomarkers, cancer biology, molecular biology.

Opportunities for scientific and career development for the postdoctoral candidates:

We are a well-established and growing multidisciplinary group, and we focus on prevention of gastrointestinal cancer by identifying hereditary causes and other risk factors, as well as by discovering biomarkers for prevention and early diagnosis.







Breaking the cycle: Targeting autophagy and CIN to outsmart cancer. <u>Caroline Mauvezin</u>

caroline.mauvezin@ub.edu

orcid.org/0000-0003-4220-7272

Description and keywords of the research line/topic:

We study how autophagy and lysosomes regulate mitosis to prevent chromosomal instability (CIN), a key driver of cancer. We identified the toroidal nucleus as a novel CIN biomarker and aim to develop new tools for CIN detection and targeted therapies.

Cancer biology, chromosomal instability, autophagy, biomarkers, cell division.

Research group:

Signal transduction, intracellular compartments and cancer

Keywords of desired experiences of the postdoctoral candidates:

Cancer cell culture, Bioinformatic, Proteomic, High-content microscopy, Image analysis.

Opportunities for scientific and career development for the postdoctoral candidates:

Inclusive and gender-balanced lab with a strong mentoring philosophy. We foster transparency, honesty, and support scientific and career growth through collaborations, skill-building, and individualized guidance.







Immunometabolic Regulation of Cell Plasticity in Health and Disease. <u>Antonio Postigo</u>

idib412@recerca.clinic.cat

orcid.org/0000-0003-4605-2634

Description and keywords of the research line/topic:

The group is engaged in three research lines: a) Cell plasticity in cancer cells and immune cells of the tumor microenvironment b) Immunometabolism of macrophages in inflammation, b) Macrophage plasticity in tissue regeneration.

Cell Plasticity / Immunometabolism / Macrophages / Cancer / Inflammation.

Research group:

Gene Regulation in Stem Cells, Cell Plasticity, Differentiation, and Cancer

Keywords of desired experiences of the postdoctoral candidates:

Immunology / Metabolism / single-cell transcriptomics / Mouse models.

Opportunities for scientific and career development for the postdoctoral candidates:

You will integrate into a highly international and collaborative group studying cell and metabolic plasticity, use cutting-edge technologies, and gain access to skillbuilding and networking opportunities to advance your career.







Interplay between adaptive and innate immune cells in Transplantion. <u>Pedro Ventura-Aguiar</u>

pventura@clinic.cat

orcid.org/0000-0003-3381-7503

Description and keywords of the research line/topic:

Investigate the interplay between innate and adaptive immune system in kidney and pancreas transplatation, focusing on modulating innate immune response both in vitro and in vivo animal models, while corroborating in human samples.

Transplantation, macrophages, regulatory dendritic cells, autorreactive T cells, molecular microscope.

Research group:

Nephrology and transplantation (LENIT)

Keywords of desired experiences of the postdoctoral candidates:

Flow cytometry, mixed lymphocyte reactions, molecular studies, single-cell RNA sequencing, R studio.

Opportunities for scientific and career development for the postdoctoral candidates:

Dynamic research group focused on cutting-edge science in transplantation, offering rich opportunities for international collaborations, career growth through interdisciplinary projects, and access to advanced technologies and models of transplantion.







Extracellular Vesicle-Mediated Mechanisms in Cardiovascular Disease and Repair. <u>Ana Paula Dantas</u>

apvilleladantas@ub.edu

orcid.org/0000-0001-8514-4094

Description and keywords of the research line/topic:

Our projects aim to compile current knowledge on the role of EVs and their molecular cargo in cardiovascular dysfunction, focusing on their potential as therapeutic targets to improve management of cardiovascular disease.

Extracellular vesicles, myocardial infarction, endothelium, intercellular signaling.

Research group:

Atherosclerosis, coronary disease and heart failure

Keywords of desired experiences of the postdoctoral candidates:

Expertise in cellular and molecular biology, animal models of disease. Knowledge in cardiovascular disease pathophysiology.

Opportunities for scientific and career development for the postdoctoral candidates:

This is a multidisciplinary with strong track record in mentoring young researchers. Group members have successfully secured competitive fellowships and research contracts, demonstrating our excellence in scientific leadership and development.







Sex-specific mitochondrial modulators enhancing immunotherapy in liver cancer. <u>Albert Morales</u>

amorales@clinic.cat

orcid.org/0000-0001-8702-2269

Description and keywords of the research line/topic:

Mitochondrial interventions may enhance immunotherapy efficacy, differently in male and female liver cancer models, by targeting tumor microenvironment reprogramming with focus on BH3 mimetics and STING activators to overcome cancer immune resistance.

Hepatocellular carcinoma, Tumor microenvironment, Immunotherapy, Sex-specific biomarkers, Mitochondrial modulators.

Research group:

Hepatocellular signaling and cancer.

Keywords of desired experiences of the postdoctoral candidates:

Immunometabolism, Hepatocarcinogenesis, Mitochondrial biology, Flow cytometry, organoid/animal models.

Opportunities for scientific and career development for the postdoctoral candidates:

Our group, collaborating with Clinic Hospital liver cancer clinicians, offer scientific growth through translational research, advanced technologies, international networking and personalized mentoring for career development in precision oncology.







Immunosuppressive role of cancer-associated fibroblasts in hepatobiliary tumors. <u>Silvia Affò</u>

saffo@recerca.clinic.cat

orcid.org/0000-0002-9731-3913

Description and keywords of the research line/topic:

We investigate how immunosuppressive CAFs arise and evolve in hepatobiliary cancers by integrating experimental models, clinical data, and cutting-edge transcriptomics—ultimately aiming to enable their effective targeting in combination therapies.

Cancer-associated fibroblasts; tumor immune microenvironment (TIME), lineage tracing, spatial transcriptomics, targeted therapies.

Research group:

Tumor microenvironment plasticity and heterogeneity (TMHet).

Keywords of desired experiences of the postdoctoral candidates:

Bioinformatics, data analysis, life sciences, experimental models, liver diseases.

Opportunities for scientific and career development for the postdoctoral candidates:

The TMHet group at IDIBAPS offers a dynamic and collaborative environment focused on cutting-edge science, and career development through interdisciplinary training, international networking, and publication opportunities.







Clinical phenotyping & progression markers of Parkinson's disease. <u>MJ Martí & M Ezquerra</u>

MJMARTI@clinic.cat; orcid.org/0000-0002-9872-7835

EZQUERRA@recerca.clinic.cat; orcid.org/0000-0003-3246-6641

Description and keywords of the research line/topic:

We aim to identify early clinical markers of Parkinson's disease (PD) in at-risk groups (i.e. isolated REM sleep behaviour disorder, hyposmia and LRRK2 non-manifesting carriers) using technology-based tools and applying machine learning algorithms.

Prodromal Parkinson's disease; Machine learning; digital clinical markers; alphasynuclein; disease modifying interventions.

Research group:

Parkinson disease and other neurodegenerative movement disorders: clinical and experimental research.

Keywords of desired experiences of the postdoctoral candidates:

Digital biomarker development; Machine Learning; Prodromal Parkinson's Disease research; Multimodal biomarker integration; Longitudinal cohort data analysis.

Opportunities for scientific and career development for the postdoctoral candidates:

The Lab for Parkinson's at IDIBAPS-Hopital Clínic de Barcelona is a multidisciplinary group of basic and clinical researchers dedicated to translational research that benefits the patients, a unique niche for the career growth of the MSCA fellow.







Mechanisms of RV dysfunction beyond pressure in pulmonary hypertension. <u>Ana García Álvarez</u>

anagarci@clinic.cat

orcid.org/0000-0002-1718-2424

Description and keywords of the research line/topic:

RV failure in PH lacks targeted therapy. We explore lung-heart crosstalk and RV adaptation via multi-omics and imaging in models and patients, identifying non-pressure mechanisms driving RV dysfunction to enable precision therapies.

Translational; Pulmonary Hypertension; Right ventricle; omics; exosomes.

Research group:

Cardiomyopathies, heart failure and secondary pulmonary hypertension.

Keywords of desired experiences of the postdoctoral candidates:

Omics; Molecular biology; cell cultures; exosomes; animal models.

Opportunities for scientific and career development for the postdoctoral candidates:

Multidisciplinary group studying RV failure in PH with advanced omics and imaging. Offers strong mentorship, cutting-edge tools, and translational research training to foster scientific and career development.







Exploring the phospho-signalling of mutant LRRK2 in Parkinson's disease patients. <u>Ruben Fernández-Santiago</u>

RFERNAN1@recerca.clinic.cat

orcid.org/0000-0002-4582-0702

Description and keywords of the research line/topic:

We investigate the molecular mechanisms of Parkinson's due to LRRK2 kinaseactivating mutations in LRRK2 clinical cohorts and models by phospho-/proteomics, transcriptomics and epi-/genomics, ultimately to develop effective LRRK2 inhibitor therapies.

Parkinson's disease; Genetics; LRRK2; Biomarkers; Machine learning.

Research group:

Parkinson disease and other neurodegenerative movement disorders: clinical and experimental research.

Keywords of desired experiences of the postdoctoral candidates:

Bioinformatics; Data analysis; Biochemistry; Neurodegenerative Diseases; Parkinson's disease.

Opportunities for scientific and career development for the postdoctoral candidates:

You will join a dynamic Parkinson's team and enjoy a stimulating collaborative environment at Clínic-Barcelona with access to unique Parkinson's cohorts, stateof-the-art methodologies, and advanced training, mentoring, and tenure opportunities.







New targets to attack mantle cell lymphoma through proteomics strategies. <u>Virginia Amador</u>

vamador@recerca.clinic.cat

orcid.org/0000-0002-3016-2874

Description and keywords of the research line/topic:

The aims of this project are to explore and characterize oncogenic SOX11-protein interactions and the global cell surface proteome of MCL in lymph node microenvironments to identify new target and immunotherapeutic intervention for aggressive MCL.

Cell surface proteins, immunotherapies.

Research group:

Functional characterization of oncogenic mechanisms in lymphomagenesis.

Keywords of desired experiences of the postdoctoral candidates:

Bioinformatic analysis, 3D cell culture systems, mouse genetics experience, functional/mechanistic experiments.

Opportunities for scientific and career development for the postdoctoral candidates:

Dr. Amador's (PI) group is an internationally recognized research group specialized in studying aggressive B-cell lymphomas pathogenesis. Her research has been continuously funded for the past 5 years, with a strong track record of publications and her global network is a key asset.







Exercise-derived extracellular vesicles in type 2 diabetes management. Joan-Marc Servitja

servitja@recerca.clinic.cat

orcid.org/0000-0002-1241-8004

Description and keywords of the research line/topic:

This study combines human exercise studies and multi-organ-on-a-chip models to explore exercise-derived extracellular vesicles and their cargo as interorgan crosstalk mediators and therapeutic targets for type 2 diabetes.

Metabolism, diabetes, exercise, transcriptomics, extracellular vesicles.

Research group:

Pathogenesis and prevention of diabetes.

Keywords of desired experiences of the postdoctoral candidates:

Metabolism, transcriptomics, omics.

Opportunities for scientific and career development for the postdoctoral candidates:

This interdisciplinary team of biochemists and endocrinologists offers exceptional scientific and career development through cutting-edge research combining clinical studies with state-of-the-art biotechnology to advance type 2 diabetes research.