

Endocrinology, Diabetes, and Nutrition

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DESCRIPTION

Our group, led by Dídac Mauricio, is a multidisciplinary team consisting of endocrinologists, pharmacologists, biologists, and nutritionists. The group has different research lines in the area of diabetes and its associated metabolic diseases and complications, encompassing epidemiological, clinical, and translational research. This is a highly active, productive, and competitive group, both at national and international levels, a member of XARTEC Salut network, AGAUR, and with 2 research groups belonging to Centro de investigación biomédica en red (CIBER, ISCIII).

MAIN LINES OF RESEARCH

- Complications of diabetes, atherosclerosis, and cardiovascular disease (D. Mauricio; ORCID: 0000-0002-2868-0250): This line encompasses clinical and translational studies on the pathogenesis, biomarker, and early detection and treatment of these complications leading most of the burden in terms of morbidity and mortality in diabetes. Several projects in precision medicine in diabetes are currently underway.
- Epidemiology of diabetes, primary care research, and research with large databases (D. Mauricio): This line is focused on the research of epidemiological aspects of diabetes using different sources of real-world data, with large databases, especially the SIDIAP database (real-world evidence) in collaboration with J. Franch (IDIAP Jordi Gol research institute).
- Endocrinological diseases and pregnancy (R. Corcoy; ORCID: 0000-0001-5055-6814): Senior



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researcher in diabetes in pregnancy and technologies in the management of diabetes, such as insulin pumps and glucose sensors. This researcher's team has participated in landmark studies in gestational diabetes, such as the CONCEPT trial.

- Thyroid nodular disease and cancer (E. Mato; ORCID: 0000-0001-8121-9335): Tumoral thyroid disease poses a diagnostic and therapeutic challenge. This researcher focuses on the contribution of lipid metabolism in nodular thyroid malignancies.
- Diabetes and cardiovascular risk factors (A. Pérez; ORCID: 0000-0001-5528-1143): This line studies the contribution of lipoprotein metabolism disorders to cardiovascular disease in patients with diabetes, dyslipidemia, and obesity.
- Cellular injury in diabetes and associated metabolic diseases (J. Julve; ORCID: 0000-0002-6531-2246): The general objective is to identify new biomarker candidates for the diagnosis/prognosis of hepatic and myocardial complications; and the evaluation of new therapeutic strategies in this area in experimental models and in patients.

SCIENTIFIC CHALLENGES

Endocrine neoplasms

- Molecular markers of the epithelial lineage: expression of the ABCG2 gene/BCRP1 transporter.
- Transcriptomics and proteomics as prediction and prognosis instruments for epithelial thyroid cancer.
- Intramural CELL-NANO-THYROID project: investigation of human mesenchymal cell capacity as an instrument for administering anti-tumour cell drugs in the form of conjugated nanoparticles.
- Role of cholesterol & cholesterol metabolites in thyroid neoplasms differentiation.
- Assessment of glycosylated immunoglobulins as serologic markers of thyroid carcinoma.

Autoimmune Diabetes Mellitus

- Classic type 1 autoimmune diabetes mellitus: discovery of genes that influence susceptibility to autoimmune diabetes (classic type 1).
- LADA type diabetes: prevalence of metabolic

syndrome among patients with LADA compared to prevalence among patients with classic type 1 diabetes, type 2 diabetes, and the general non-diabetic population in European countries.

Diabetes and pregnancy

- Clinical research aimed at optimizing care for women with pre-gestational and gestational diabetes at preconception, pregnancy, birth, and postpartum stages. Specifically, addressing the relevance of adequacy of pregnancy weight gain, maternal predictive characteristics, and association with pregnancy outcomes.

Technology, Telemedicine, and Intelligent Systems for Therapeutic Optimization of Diabetes Mellitus

- Technology in the treatment of diabetes with a special focus on insulin (new insulins, pumps), and glucose measurement including sensors.
- Development of a technological platform for the prediction, prevention, and treatment of obesity, DM, HTA, dyslipidemia, and cardiometabolic risk.

Optimization of the Treatment of Obesity, Hyperlipidaemia, Metabolic Syndrome, and Complications

- Mechanisms linking diabetes, obesity, and dyslipidemia with cardiovascular disease.
- Optimal treatment and prevention of cardiovascular risk associated with obesity, hyperlipidemia, metabolic syndrome, and diabetes.

Diabetic complications: atherosclerosis and microvascular disease

- Clinical and translational studies that explore research in the pathogenesis, biomarkers, and early detection and treatment of microvascular and chronic complications, especially atherosclerosis.

Precision medicine in diabetes

- Genotyping and deep phenotyping of people with diabetes.
- Use of artificial intelligence in the characterization of diabetes.

Diabetic epidemiology: primary care research, with large databases.

- Research on diabetes mellitus in Primary Health Care of Catalonia. In recent years, the group has developed projects using the SIDIAP database, in different aspects of real-world evidence.



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- Use of AI as an approach to characterize diabetes mellitus using real-world practice databases.

Clinical trials in the area of the Endocrinology, Diabetes, and Nutrition Research Group.

- There are currently 28 ongoing clinical trials in our group.

Nicotinamide supplementation

- Research on the role of nicotinamide (NAM) supplementation in several tissues of experimental models (brain, intestinal epithelial, cardiac).
- Study of the effects of NAM on the intestinal microbiome and its relationship with diabetes.
- Identification of new NAM-sensitive biomarkers to fight diabetes.

ACTIVE GRANTS

- Corcoy Pla, Rosa. Desarrollo de una herramienta para la determinación de riesgo genético y prevención personalizada de la diabetes gestacional. RTC2019-007406-1. Ministerio de Ciencia e Innovación (MICINN). Duration: 2020-2023. 158.119,34 €.
- Corcoy Pla, Rosa. Medical comorbidities in bipolar disorder: clinical validation of risk factors and biomarkers to improve prevention and treatment (BIPCOM). EraPerMed Corcoy. Unión Europea (GenCat FUNDING - Acciones complementarias). Duration: 2023-2025. 199.977,00 €.
- Genua Trullós, Idoia. Contractes Rio Hortega 2021. CM21/00077. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2023. 65.000,00 €
- Genua Trullós, Idoia. SED 2021. Sociedad Española de Diabetes (SED). Duration: 2021-2023. 20.000,00 €.
- Julve Gil, Josep. Potencial terapéutico de la suplementación con nicotinamida sobre la adiposidad, señalización de la insulina y de la enfermedad hígado graso no alcohólico. PI21/00770. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2024. 122.210,00 €.
- Mauricio Puente, Didac. Caracterización de subgrupos de diabetes tipo 2 al diagnóstico: un paso necesario hacia la medicina de precisión en diabetes. PI21/01163. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2024. 159.720,00 €.

- Mauricio Puente, Didac. ImpactT2D: una estrategia genómica para implementar medicina de precisión en la diabetes tipo 2. PMP21/00100. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2025. 207.900,00 €.
- Mauricio Puente, Didac. Study of the differential lipidome in thyroid follicular adenomas and carcinomas using mass spectrometry images. Sociedad Española de Endocrinología y Nutrición. Duration: 2021-2023. 25.000,00 €.
- Mauricio Puente, Didac. Gestational diabetes and complications among pregnant women attended in primary care sexual and reproductive health services in Catalonia. PCDE 2021/4 PCD Europe. Research Grant 2021. Duration: 2021-2024. 10.000,00 € (CIBER).
- Mauricio Puente, Didac. Epidemiology of SARS-CoV-2 in persons with diabetes mellitus and obesity in Catalonia – Study epiCOVID19DMO. PCDE 2021/4. Primary Care Diabetes Europe. Research Grant 2020. COV20/01301 (EPICOID19DMO). Duration: 2021-2023. 10.000,00 € (CIBER).
- Rojo López, Marina Idalia. Descubrimiento y validación de marcadores de predicción de diabetes tipo 2. SLT017/20/000107. Departament de Salut Generalitat de Catalunya. Duration: 2021-2023. 103.040,20 €.

DOCTORAL THESES DEFENDED

- Dòria Cervós, Montse. Comorbiditats i mesura de qualitat de vida en el pacient amb peu diabètic en diferents situacions clíniques. 18/04/2023. Universitat Autònoma de Barcelona. Supervisors: Mauricio Puente, Dídac; Hernández García, Marta; Puig Domingo, Manuel Luis. <http://hdl.handle.net/10803/690447>.
- Puig Jové, Carles. Marcadores séricos y alteraciones en el metabolismo lipídico y su relación con la disfunción miocárdica subclínica en sujetos con diabetes mellitus. 05/07/2023. Universitat Autònoma de Barcelona. Supervisors: Alonso Pedrol, Núria; Mauricio Puente, Dídac; Puig Domingo, Manuel Luis.
- Revilla Senra, Giovanna. Action of cholesterol, 27-hydroxycholesterol and adipose tissue in Thyroid Cancer. 22/12/2023. Universitat Autònoma de Barcelona. Supervisors: Escolà Gil, Joan Carles; Mató Matute, Eugènia; Blanco Vaca, Francisco.



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SCIENTIFIC PRODUCTION

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- Ampudia FJ, Ugarte E, Chico A, García J, Galan M. Spanish Consensus on the Use of isCGM in the Management of Patients With Insulin Therapy: The MONITOR Project. *Journal Of Diabetes Science And Technology*. 2023; 17(5):19322968221087270. DOI:10.1177/19322968221087270. PMID:35466722. Document type: Article.
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