

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. We also address specific aspects of the nutritional field. This is a highly active, productive, and competitive group, both at national and international levels, a member of the 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. This line encompasses clinical and translational studies on the pathogenesis, biomarkers, and early detection and treatment of these complications leading most of burden in terms of morbidity and mortality in diabetes. Several projects in precision medicine in diabetes are currently under way. (Mauricio Puente, Dídac).
- Epidemiology of diabetes, primary care research, and research with large databases. 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).
(Mauricio Puente, Dídac).

- Endocrinological diseases and pregnancy. Senior 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 CONCEPTT trial. (Corcoy Pla, Rosa).
- Thyroid nodular disease and càncer. Tumoral thyroid disease poses a diagnostic and therapeutic challenge. This researcher is currently focusing on the contribution of lipid metabolism in nodular thyroid malignancies. (Mato Matute, Eugenia).
- Diabetes and cardiovascular risk factors. This line studies the contribution of lipoprotein metabolism disorders to the cardiovascular disease in patients with diabetes, dyslipidemia, and obesity. (Pérez Pérez, Antonio).
- Cellular injury in diabetes and associated metabolic diseases. The general objective is to identify new biomarker candidates related to tissue damage in obesity/diabetes and explore its potential use for the diagnosis/prognosis of mainly hepatic and myocardial complications, and the evaluation of new therapeutic strategies in this area in experimental models and in patients. (Julve Gil, Josep).

- Assessment of glycosylated immunoglobulins as serologic markers of thyroid carcinoma.

Autoimmune Diabetes Mellitus

- Classic type 1 autoimmune diabetes mellitus: different aspects of the disease and its management.
- 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 optimising care for women with pre-gestational and gestational diabetes at preconception, pregnancy, birth, and postpartum stages. Specifically, addressing the relevance of adequate pregnancy weight gain, maternal predictive characteristics, and their association with pregnancy outcomes.

Technology, Telemedicine, and Intelligent Systems for Therapeutic Optimisation 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.

Optimisation of the Treatment of Obesity, Hyperlipidemia, 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

SCIENTIFIC CHALLENGES

- Endocrine neoplasms
 - Molecular markers of the epithelial lineage: expression of the ABCG2 gene/BCRP1 transporter.
 - Transcriptomics and proteomics as predictive and prognostic tools for epithelial thyroid cancer.
 - Intramural CELL-NANO-THYROID project: investigation of human mesenchymal cell capacity as an instrument for administering anti-tumor cell drugs in the form of conjugated nanoparticles.
 - Role of cholesterol & cholesterol metabolites in thyroid neoplasms differentiation.

- treatment of microvascular and chronic complications, especially atherosclerosis.
- We are currently focusing on different clinical and pathogenetic aspects of MASLD (metabolic-associated dysfunction steatotic liver disease) in diabetes.
- Erectile dysfunction (ED) in patients with type 2 diabetes: Currently, a qualitative study on healthcare professionals and an epidemiological study on ED using the SIDIAP database.
- Precision medicine in diabetes
 - Genotyping and deep phenotyping of people with diabetes
 - Use of artificial intelligence in the characterisation of diabetes
- Diabetic epidemiology: primary care research utilising 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
 - Use of AI as an approach to characterise diabetes mellitus using real-world practice databases.
- Clinical trials in the area of Endocrinology, Diabetes, and Nutrition Research Group.
 - There are currently 13 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).
 - In an interventional study, analyse the effects of NAM on the intestinal microbiome and its relationship with diabetes.
 - Identification of new NAM-sensitive biomarkers to fight diabetes.
- and treatment (BIPCOM). EraPerMed Corcoy. Unión Europea (GenCat FUNDING - Acciones complementarias). Duration: 2023-2025. 199.977,00 €
- Corcoy Pla, Rosa. Centro de Investigación Biomédica en Red en Bioingeniería, Biomateriales y Nanomedicina. CIBERBBN. CB06/01/0009. Instituto de Salud Carlos III (ISCIII).
- Genua Trullos, Idoia. Ús terapèutic de nicotinamida per al maneig d'esteatohepatitis metabòlica. ACD 2023. Associació Catalana de Diabetis. Duration: 2024-2026. 10.000,00 €
- Julve Gil, Josep. Potencial terapèutic 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 €
- Julve Gil, Josep. Contribución de moléculas derivadas del metabolismo de la nicotinamida a la enfermedad MASLD y papel de la inflamación y disbiosis intestinal: una aproximación clínica y traslacional. PI24/00156. Instituto de Salud Carlos III (ISCIII). Duration: 2025-2027. 240.000,00 €
- Mauricio Puente, Dídac. 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, Dídac. 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, Dídac. 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, Dídac. Centro de Investigación Biomédica en Red de Diabetes y Enfermedades MEtabolicas Asociadas (CIBERDEM). CB15/08/00071_2. Instituto de Salud Carlos III (ISCIII).

ACTIVE & AWARDED GRANTS

- Corcoy Pla, Rosa. Medical comorbidities in bipolar disorder: clinical validation of risk factors and biomarkers to improve prevention

- Sarda Simo, Helena. Impacto de las lipoproteínas remanentes y HDL en el riesgo cardiovascular: evaluación de biomarcadores predictivos en el estudio prospectivo Di@bet.es y un estudio longitudinal en sujetos con diabetes tipo 2. SED 2023. Sociedad Española de Diabetes. Duration: 2024-2025. 20.000,00 €

DOCTORAL THESES DEFENDED

- Falguera Vilamajó, Mireia. Estudi de cohorts Mollerussa: prevalença de prediabetis i diabetis no coneguda, i relació de la prediabetis amb el patró de dieta. 02/10/2024. Universitat de Lleida. Supervisors: Mauricio Puente, Dídac; Castelblanco Echevarria, Esmeralda; Verdaguer Autonell, Joan. <http://hdl.handle.net/10803/693570>
- Genua Trullos, Idoia. Efectos de la cirugía bariátrica sobre las alteraciones lipoproteicas en la obesidad. 03/10/2024. Universitat Autònoma de Barcelona. Supervisors: Miñambres Donaire, Inka; Pérez Pérez, Antonio. <https://hdl.handle.net/10803/692886>
- Mollo Iniesta, Àngels. Impacte d'una estratègia d'atenció integral en pacients amb mal control glucèmic de la Diabetis Mellitus tipus 2 a l'atenció primària. 20/09/2024. Universitat de Lleida. Supervisors: Mauricio Puente, Dídac; Vlachos, Bogdan; Verdaguer Autonell, Joan. <http://hdl.handle.net/10803/692460>

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