

Digestive Diseases

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DESCRIPTION

Our research group is highly diverse and encompasses both clinical and experimental research. Our experience in clinical research has a wide circulation, starting more than 30 years ago. Experimental studies have also been done, including gastroenterological as well as hepatic diseases, either with high prevalence (alcoholic and viral liver diseases, non-alcoholic steatohepatitis, inflammatory bowel disease, etc) or outstanding relevance (variceal bleeding, esophageal diseases, Barrett's esophagus, etc). Indeed, our group plays a vital role in the structure of CIBERehd (ISCIII).

MAIN LINES OF RESEARCH

- Experimental rat model of cirrhosis and ascites. (Soriano Pastor, German; Sánchez Ardid, Elisabet).
- Mechanisms and prevention of bacterial translocation in rats with cirrhosis. (Soriano Pastor, German; Sánchez Ardid, Elisabet).
- Experimental model of spontaneous and induced bacterial peritonitis: physiopathology and treatment. (Soriano Pastor, German; Sánchez Ardid, Elisabet).
- MiRNAs expression profile in inflammatory bowel disease after stimulation with toll-like receptor ligands. (Soriano Pastor, German; Sánchez Ardid, Elisabet).
- Cirrhosis regression in cirrhosis. (Villanueva Sánchez, Candido; Alvarado Tapias, Edilmar Auxiliadora).

- Physiopathology, diagnosis, treatment and prevention of compensated cirrhosis. (Soriano Pastor, German; Poca Sans, Maria; Roman Abal, Eva María).
- Physiopathology, diagnosis, treatment and prevention of decompensated cirrhosis (bacterial infections, ascites, hepatorenal syndrome in cirrhosis and hepatic encephalopathy in cirrhosis. (Soriano Pastor, German; Roman Abal, Eva María).
- Cognitive impairment, falls and quality of life in patients with cirrhosis. (Soriano Pastor, German; Roman Abal, Eva María).
- Physiopathology of portal hypertension and varicose haemorrhage. (Villanueva Sánchez, Candido; Alvarado Tapias, Edilmar Auxiliadora; Brujats Rubírola, Anna).
- Physiopathology of non-varicose haemorrhage. (Villanueva Sánchez, Candido; Alvarado Tapias, Edilmar Auxiliadora; Brujats Rubírola, Anna; Roman Abal, Eva María).
- Diagnosis, treatment and prevention of hepatic vascular diseases. (Villanueva Sánchez, Candido; Alvarado Tapias, Edilmar Auxiliadora; Brujats Rubírola, Anna).
- Evaluation of alcohol hepatitis. (Alvarado Tapias, Edilmar Auxiliadora; Brujats Rubírola, Anna).
- Diagnosis, prevention and treatment of non-alcoholic fatty liver disease. (Alvarado Tapias, Edilmar Auxiliadora; Cuyas Espi, Berta).
- Diagnosis and treatment of autoimmune and metabolic liver diseases. (Alvarado Tapias, Edilmar Auxiliadora; Torras Colell, Javier; Gallego Moya, Adolfo).
- Diagnosis and treatment of chronic hepatitis B and C. (Torras Colell, Javier; Gallego Moya, Adolfo).
- Diagnosis and treatment of hepatocarcinoma. (Gallego Moya, Adolfo; Cuyas Espi, Berta; Roman Abal, Eva María).
- Screening for colorectal cancer (Gordillo Abalos, Jorge; Pedregal Pascual, Patricia).
- Study of Biliary and pancreatic diseases and pancreatic cancer (Concepción Martín, María Del Mar; Guarner Argente, Carlos; Romito, Raffaella; Gómez Oliva, Cristina).
- Physiopathology, diagnosis and treatment of intestinal inflammatory disease (inflammatory bowel disease). (García Planella, Esther; Bertolletti, Federico; Gordillo Abalos, Jorge).
- Physiopathology, diagnosis, treatment and prevention of reflux disease, Helicobacter infection and esophageal (Poca Sans, Maria; Escude Torrella, Laia).
- Study of the Small bowel diseases (Romero Mascarell, Cristina).
- Diagnosis and treatment in advanced gastrointestinal endoscopy. (Guarner Argente, Carlos; Concepción Martín, María Del Mar; Romero Mascarell, Cristina).
- Diagnosis and treatment of acute pancreatitis, prevention of acute post-ERCP pancreatitis and chronic pancreatitis and pancreatic neoplasms: molecular studies, early detection and treatment. (Gómez Oliva, Cristina; Romito, Raffaella).
- Participation in various public-private clinical trials. (Escorsell Mañosa, Maria Àngels; Soriano Pastor, German; Villanueva Sánchez, Candido; Alvarado Tapias, Edilmar Auxiliadora; Gallego Moya, Adolfo; Guarner Argente, Carlos; García Planella, Esther; Gordillo Abalos, Jorge; Torras Colell, Javier; Cuyas Espi, Berta; Brujats Rubírola, Anna; Roman Abal, Eva María; Sánchez Ardid, Elisabet).

SCIENTIFIC CHALLENGES

- Consolidate the CIBEREHD, CIBER, Institut de salut Carlos III research group by studying complications in cirrhosis.
- Research Grup de Recerca de la UAB (Universitat Autònoma de Barcelona): Grup de Recerca de Complicacions de la Cirrosis Hepàtica.
- Grup de Recerca Consolidat de la Generalitat (SGR).
- Expand the hepatology research lab and develop new research.
- Consolidate the portal hypertension research group.
- Consolidate the non-alcoholic fatty liver disease research group.

- Consolidate the pancreatic illness research line.
- Consolidate the research line on inflammatory bowel disease.
- Consolidate the polyps and colon cancer research line.
- Develop a research line in digestive endoscopy.
- Consolidate the endoscopy unit as CSUR (central for reference and excellence) in peroral endoscopic myotomy in Spain.
- Group CIBERhd-evs.
- Expand the Hepatology research lab and develop new research initiatives.
- Consolidate the portal hypertension research group.
- Consolidate the non-alcoholic fatty liver disease research group.
- Consolidate the pancreatic illness research line.
- Consolidate the research line on inflammatory bowel disease.
- Consolidate the polyps and colon cancer research line.
- Develop a research line in digestive endoscopy.
- Consolidate the endoscopy unit as CSUR (central for reference and excellence) in peroral endoscopic myotomy in Spain.
- Group CIBERhd-evs.
- Steering Committee of the Spanish REHEVASC registry.
- Giordano, Antonio. Evaluación de los cambios en la composición corporal y predicción de respuesta al tratamiento médico mediante bioimpedancia eléctrica en la enfermedad inflamatoria intestinal (estudio BAMBIE). GETECCU 2024. Grupo Español de Trabajo en Enfermedad de Crohn y Colitis Ulcerosa. Duration: 2024-2026. 12.000,00 €
- Gordillo Abalos, Jorge. Prevalencia del Virus del Papiloma Humano y sus implicaciones clínicas en población masculina con enfermedad inflamatoria intestinal de un hospital de tercer nivel (estudio PAPIMALE). GETECCU 2023. Grupo Español de Trabajo en Enfermedad de Crohn y Colitis Ulcerosa. Duration: 2024-2026. 12.000,00 €
- Soriano Pastor, German. Fragilidad en pacientes con cirrosis: valor pronóstico del ángulo de fase en pacientes hospitalizados y efecto de una intervención multifactorial (ejercicio en domicilio, aminoácidos ramificados y probiótico). PI19/00275. Instituto de Salud Carlos III (ISCIII). Duration: 2020-2024. 141.570,00 €
- Villanueva Sánchez, Candid. Caracterización de la interrelación entre la hipertensión portal y la inflamación en la circulación intra-hepática y sistémica en la cirrosis descompensada. PI22/01917. Instituto de Salud Carlos III (ISCIII). Duration: 2023-2025. 93.170,00 €

ACTIVE & AWARDED GRANTS

- Alvarado Tapias, Edilmar. Contractes Juan Rodés 2020. JR20/00047. Instituto de Salud Carlos III (ISCIII). Duration: 2021-2025. 180.000,00 €
- Alvarado Tapias, Edilmar. Identificación de biomarcadores no invasivos de reversión en la enfermedad hepática por alcohol a través del estudio: vesículas extracelulares y parámetros hemodinámicos. PI21/01995. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2024. 87.120,00 €
- Escorsell Mañosa, Maria Àngels. PATOLOGIA DIGESTIVA. 2022 INV-1 00048. Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Duration: 2022-2024. 66.217,84 €

DOCTORAL THESES DEFENDED

- Bazaga Pérez de Rozas, Sergio. Eventos adversos relacionados con las prótesis de aposición luminal en el drenaje de la vesícula biliar y los procedimientos de retirada. 28/05/2024. Universitat Autònoma de Barcelona. Supervisors: Guarnier Argente, Carlos; García Alonso, Francisco Javier; Soriano Pastor, German. <https://hdl.handle.net/10803/691858>
- Campolongo Perillo, Antonia. Infusión intestinal continua de levodopa/carbidopa en la enfermedad de Parkinson: factores concomitantes digestivos que influyen en su eficacia y seguridad. 16/10/2024. Universitat Autònoma de Barcelona. Supervisors: Kulisevsky Bojarski, Jaime;

Pascual Sedano, Berta M.; Román Abal, Eva María; Martí Fábregas, Joan. <https://hdl.handle.net/10803/692806>

- García Guix, Marta. Implicaciones pronósticas de los cambios hemodinámicos en los diferentes estadios de la cirrosis descompensada. 05/07/2024. Universitat Autònoma de Barcelona. Supervisors: Villanueva Sánchez, Candido. <https://hdl.handle.net/10803/692118>
- Giordano, Antonio. Avances en el diagnóstico y tratamiento de las enfermedades del intestino delgado. 08/03/2024. Universitat de Barcelona. Supervisors: González Suárez, Begoña.

SCIENTIFIC PRODUCTION

- Abril AG, Alejandre J, Mariscal A, Alserawan L, Rabella N, Roman E, López J, Navarro F, Serrano E, Nomdedeu JM, Vidal S. Titers of IgG and IgA against SARS-CoV-2 proteins and their association with symptoms in mild COVID-19 infection. *Scientific Reports*. 2024; 14(1):12725. DOI:10.1038/s41598-024-59634-y. PMID:38830902. IF:3,800 (Q1/2D). Document type: Article.
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