

Digestive Diseases

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DESCRIPTION

Our research group is highly heterogeneous and includes 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 an important role in the structure of CIBERhd (ISCIII).

MAIN LINES OF RESEARCH

Experimental research: (These research lines are led by: Dr. Carlos Guarner, Dr. Germán Soriano, Dr. Cándid Villanueva, Dra. Edilmar Alvarado, Dra. Elisabet Sánchez).

- Experimental rat model of cirrhosis and ascites.
- Mechanisms and prevention of bacterial translocation in rats with cirrhosis.
- Experimental model of spontaneous and induced bacterial peritonitis: physiopathology and treatment.
- MiRNAs expression profile in inflammatory bowel disease after stimulation with toll-like receptor ligands.

Clinical investigation: (These research lines are led by: Dr. Àngels Escorsell, Dr. Carlos Guarner, Dr. Germán Soriano, Dr. Cándid Villanueva, Dra. Edilmar Alvarado, Dr. Gallego, Dr. Guarner Argente, Dra Esther García Planella, Dr. Xavier Torras).



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- Physiopathology, diagnosis, treatment, and prevention of bacterial infections, ascites and hepatorenal syndrome in cirrhosis.
- Diagnosis and treatment of hepatic encephalopathy in cirrhosis.
- Cognitive impairment, falls, and quality of life in patients with cirrhosis.
- Physiopathology, diagnosis, treatment, and prevention of digestive haemorrhage due to non-varicose origin.
- Physiopathology, diagnosis, treatment, and prevention of portal hypertension related complications.
- Diagnosis and treatment of chronic hepatitis B and C.
- Diagnosis, prevention and treatment of non-alcoholic fatty liver disease.
- Diagnosis and treatment of hepatocarcinoma.
- Physiopathology, diagnosis, and treatment of intestinal inflammatory disease (inflammatory bowel disease).
- Diagnosis and treatment in advanced gastrointestinal endoscopy.
- Diagnosis and treatment of acute pancreatitis.
- Prevention of acute post-ERCP pancreatitis.
- Chronic pancreatitis and pancreatic neoplasms: molecular studies, early detection, and treatment.
- Evaluation of acute alcohol hepatitis.
- Consolidate the pancreatic illness research line.
- Consolidate the inflammatory bowel disease research line.
- Consolidate the polyps and colon cancer research line.
- Develop a digestive endoscopy research line.
- Consolidate the endoscopy unit as CSUR (central for reference and excellency) in peroral endoscopic myotomy in Spain.
- Group CIBERehd-ivs.

ACTIVE GRANTS

SCIENTIFIC CHALLENGES

- 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 Angels. PATOLOGIA DIGESTIVA. 2022 INV-1 00048. Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Duration: 2022-2024. 66.217,84 €.
- Roman Abal, Eva Maria. Fragilidad en pacientes con cirrosis: efecto de una intervención multifactorial (ejercicio domicilio, aminoácidos ramificados y probióticos). PR-415/2020. Fundació Infermeria i Societat. Duration: 2021-2023. 5.280,00 €.
- 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 €.
- 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 Cirrosi Hepàtica.
- Grup de Recerca Consolidad 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.



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GRANTS AWARDED

- Roig Ramos, Cristina. Utilidad de los criterios ICCE para la preselección de pacientes con sospecha de enfermedad de Crohn tributarios a estudio con cápsula endoscópica, ¿estamos utilizando los criterios adecuados?. IIBSP-ICC-2023-125. Duration: 2023.

DOCTORAL THESES DEFENDED

- Colán Hernández, Juan. Aspectos técnicos de la ecoendoscopia y colangiopancreatografía retrógrada endoscópica. 02/05/2023. Universitat Autònoma de Barcelona. Supervisors: Guarner Argente, Carlos; Guarner Aguilar, Carlos. <http://hdl.handle.net/10803/690367>
- Romero Mascarell, Cristina. Optimització de l'estudi de l'intestí prim en la malaltia de Crohn: Càpsula endoscòpica, enterografia per ressonància magnètica i calprotectina fecal. 17/11/2023. Universitat de Barcelona. Supervisors: González Suárez, Begoña; Fernández Esparrach, Maria Gloria.

SCIENTIFIC PRODUCTION

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