

ESP Advanced Training Centre for Gastrointestinal Pathology

Name of the Centre:

ESP Advanced Training Centre (ESP-ATC) for Gastrointestinal Pathology

The Centre is based on Service of Pathology of the Centro Hospitalar Universitário S. João (CHUSJ) in *consortium* with Ipatimup (Institute of Molecular Pathology and Immunology of the University of Porto).

Address of CHUSJ: Alameda Prof. Hernâni Monteiro; 4200-319 Porto, Portugal

Address of Ipatimup: Rua Júlio Amaral de Carvalho, 45; 4200-135 Porto, Portugal

Chairs of the Centre

Fátima Carneiro, MD, PhD (CHUSJ) and Manuel Sobrinho-Simões, MD, PhD (Ipatimup)

Chairs of the training programme

Fátima Carneiro, MD, PhD

Irene Gullo, MD, PhD

Fields of subspecialty

Gastrointestinal pathology with focus on gastrointestinal paediatric and gastric pathology

Depending on personal interest, the fellows may have also access to training in liver pathology (with exception of liver transplant pathology) and pancreatobiliary pathology (including pancreato-biliary cytology).

Supervisors

Board certified pathologists with experience in digestive pathology:

- Fátima Carneiro, MD, PhD
 - o Head of Anatomic Pathology Department at CHUSJ
 - o Board certified consultant pathologist at CHUSJ and Ipatimup
 - o Full Professor of Pathology at the Faculty of Medicine of the University of Porto
 - o Senior Researcher at Ipatimup / i3S
 - o Past President of the ESP (2011-2013)
 - o Nominated as the most influential pathologist in the world in 2018 (by The Pathologist)
 - o Standing member of the Editorial Board of the WHO Classification of Tumours series (5th edition)
 - o Member of the International Gastric Cancer Linkage Consortium

- Irene Gullo, MD, PhD
 - o Board certified pathologist at CHUSJ
 - o Assistant Professor of Pathology at the Faculty of Medicine of the University of Porto
 - o Clinical Affiliate Member and Researcher at Ipatimup / i3S
 - o Representative of the Pathology Department at CHUSJ in the multidisciplinary oncologic groups of esophagogastric pathology and molecular tumour board
 - o Member of ESP Academy Alumni and Giordano Fellowship awardee (2022) of the ESP
 - o Coordinator of Digestive Pathology Club from the Portuguese Society of Anatomic Pathology
 - o Member of Italian Group of Gastrointestinal Pathologists (GIPAD)
 - o Member of the International Gastric Cancer Linkage Consortium

- Joanne Lopes, MD
 - o Board certified consultant pathologist at CHUSJ
 - o Researcher at Ipatimup / i3S
 - o Representative of the Pathology Department at CHUSJ in the multidisciplinary oncologic groups of colorectal and hepato-pancreatobiliary pathology

Contact addresses for requesting details by the applicant

- Training program: fcarneiro@ipatimup.pt; irene.gullo12@gmail.com
- General information: epinto@med.up.pt

Details and conditions

The Centre will offer an integrated and comprehensive training in gastrointestinal pathology, with possibility of complementing the training in liver and pancreatobiliary pathology. The training will be organized in two (minimum) to six (maximum) months training modules and will be based on cases from routine daily diagnostic practice, supplemented with consultation cases and cases from the (digital) archive.

The fellows will have access to a comprehensive mix of non-neoplastic and neoplastic specimens, including endoscopic biopsies, liver biopsies, excisional biopsies and surgical specimens, as well as cases of pancreato-biliary cytology.

The Porto team has particular interest and experience in the diagnosis of gastric precursor lesions and gastric carcinoma morphology and molecular subtyping, due to the high incidence of gastric cancer in Portugal (~120 diagnoses of gastric adenocarcinoma per year in the advanced training centre). A particular area of interest and experience of the team is the pathological diagnosis (frequently supported by information about genetics and somatic molecular profiling) of hereditary cancer syndromes, particularly hereditary diffuse gastric cancer (HDGC). The trainees will have the opportunity of exploring the histopathology of precursor and invasion lesions found in prophylactic gastrectomy specimens from *CDH1* carriers, organized in a separate archive of the department. Prof. Dr. Fátima Carneiro and Prof. Dr. Irene Gullo are active members of the International Gastric Cancer Linkage Consortium and participate periodically in the updating of the HDGC clinical management guidelines.

The gastrointestinal pathology unit of the pathology department at CHUSJ has a long-standing tradition of multidisciplinary approach with the clinical colleagues from general surgery, paediatric and gastroenterology departments, with a dedicated team of gastroenterologists with experience in liver pathology and advanced endoscopic management techniques (certified as European Training Centre of Gastroenterology and Hepatology).

Additionally, research activity is stimulated, with the possibility of collaborating with basic and translational research laboratories at the Faculty of Medicine of the University of Porto and i3S (Instituto de Investigação e Inovação em Saúde)/Ipatimup (Institute of Molecular Pathology and Immunology of the University of Porto).

Please see below details about specific training activities that are planned for the fellows during the training period.

Training activities

- Grossing/histopathological reporting of daily routine cases and consultation cases
- Histopathological observation and active discussion of case collections from the (digital) archive, including liver biopsies, endoscopic submucosal dissection specimens, pancreato-biliary cytology / surgical specimens and prophylactic gastrectomy specimens
- Clinico-pathological conferences with general surgery, gastroenterology and paediatric gastroenterology departments (one meeting per month, each)
- Regular interdisciplinary meetings: colorectal, gastroesophageal and hepato-pancreato-biliary tumour boards (one meeting per week, each)
- Molecular tumour board (one meeting per month)
- Cytological-histological correlation conference (one meeting per week)
- Active participation in slide seminars from the Kansas Histopathology Club (one meeting per month)
- Participation in gastric cancer research projects, also in collaboration with translational laboratories
 - o <https://www.i3s.up.pt/research-group.php?groupid=18>
 - o <https://www.i3s.up.pt/research-group.php?groupid=22>

Appendix

Publications of the last 3 years on digestive pathology (2021-2023)

AUTHORS	TITLE	JOURNAL YEAR	DOI
Gullo I , van der Post RS, Carneiro F .	Recent advances in the pathology of heritable cancer syndromes.	Histopathology 2021	10.1111/his.14228
Osório H, Silva C, Ferreira M, Gullo I , Máximo V, Barros R, Mendonça F, Oliveira C, Carneiro F .	Proteomics Analysis of Gastric Cancer Patients with Diabetes Mellitus	J. Clin. Med 2021	10.3390/jcm10030407
Rocha S, Basto AP, Ijsselstein ME, Teles S, Azevedo MM, Gonçalves G, Gullo I , Almeida GM, Maqueda JJ, Oliveira MI, Carneiro F , Barata JT, Graça L, de Miranda NFCC, Carvalho J, Oliveira C.	Immunophenotype of Gastric Tumors Unveils a Pleiotropic Role of Regulatory T Cells in Tumor Development	Cancers 2021	10.3390/cancers13030421
Leão B, Wen X, Duarte HO, Gullo I , Gonçalves G, Pontes P, Castelli C, Diniz F, Mereiter S, Gomes J, Carneiro F , Reis CA.	Expression of Thomsen–Friedenreich Antigen in Colorectal Cancer and Association with Microsatellite Instability	Int. J. Mol. Sci 2021	10.3390/ijms22031340
Garcia-Pelaez J, Barbosa-Matos R, Gullo I , Carneiro F , Oliveira C.	Histological and mutational profile of diffuse gastric cancer: current knowledge and future challenges	Mol Oncol 2021	10.1002/1878-0261.12948
Tavares S H, Gullo I , Castelli C, Dias CC, Rieder F, Carneiro F , Magro F.	Ileal Crohn's disease exhibits similar transmural fibrosis irrespective of phenotype	Clinical and Translational Gastroenterology 2021	10.14309/ctg.0000000000000330
Gullo I , Oliveira C, van der Post RS, van Dieren JM, Davis JL, Bougen-Zhukov N, Guilford P, Carneiro F .	Updated perspective and directions on Hereditary Diffuse Gastric Cancer Book Chapter in Research and Clinical Applications of Targeting Gastric Neoplasms. Editor: Brendan Jenkins	Academic Press 2021	10.1016/B978-0-323-85563-1.00011-3.
Barbosa-Matos R, Leal Silva R, Garrido L, Aguiar AC, Garcia-Pelaez J, André A, Seixas S, Sousa SP, Ferro L, Vilarinho L, Gullo I , Devezas V, Oliveira R, Fernandes S, Costa SC, Magalhães A, Baptista M, Carneiro F , Pinheiro H, Castedo S, Oliveira C.	The CDH1 c.1901C>T Variant: A Founder Variant in the Portuguese Population with Severe Impact in mRNA Splicing.	Cancers (Basel) 2021	10.3390/cancers13174464
Almeida GM, Pereira C, Park JH, Lemos C, Campelos S, Gullo I , Martins D, Gonçalves G, Leitão D, Neto JL, André A, Borges C, Almeida D, Lee HJ, Kong SH, Kim WH, Carneiro F , Almeida R, Yang HK, Oliveira C.	CD44v6 High Membranous Expression Is a Predictive Marker of Therapy Response in Gastric Cancer Patients.	Biomedicines 2021	10.3390/biomedicines9091249
Freitas JA*, Gullo I *, Garcia D, Miranda S, Spaans L, Pinho L, Reis J, Sousa F, Baptista M, Resende C, Leitão D, Durães C, Costa JL, Carneiro F , Machado JC **Joint first authors**	The Adaptive Immune Landscape of the Colorectal Adenoma-Carcinoma Sequence.	Int J Mol Sci 2021	10.3390/ijms22189791.
Magro F, Alves C, Lopes J, Lopes S, Tavares de Sousa H, Cotter J, Macedo da Silva V, Lago P, Vieira A, Brito M, Duarte MAM, Portela F, Silva JP, Ministro P, Arroja B, Carvalho L, Torres J, Santiago M, Estevinho MM, Danese S, Peyrin-Biroulet L, Dias CC, Borrallho P, Feakins RM, Carneiro F .	Histologic Features of Colon Biopsies (Geboes Score) Associated With Progression of Ulcerative Colitis for the First 36 Months After Biopsy.	Clin Gastroenterol Hepatol 2021	10.1016/j.cgh.2020.09.017
Garrido I, Lopes S, Simões MS, Liberal R, Lopes J , Carneiro F , Macedo G.	Autoimmune hepatitis after COVID-19 vaccine - more than a coincidence.	Autoimmun 2021	10.1016/j.jaut.2021.102741.
Santos-Antunes J, Marques M, Morais R, Carneiro F , Macedo G.	Colorectal Endoscopic Submucosal Dissection in a Western Center: Analysis of Outcomes and Safety Profile.	GE Port J Gastroenterol. 2021	10.1159/000514797
Santos-Antunes J, Marques M, Carneiro F , Macedo	Very low rate of residual neoplasia after non-curative endoscopic	Eur J Gastroenterol Hepatol	10.1097/MEG.0000000000002047

G..	submucosal dissection: a western single-center experience.	2021	
Santos-Antunes J, Carneiro F , Macedo G.	Nodular Lymphoid Hyperplasia of the Rectum in a Patient With Primary Immunodeficiency.	Am J Gastroenterol 2021	10.14309/ajg.000000000001032
Santos-Antunes J, Marques M, Carneiro F , Macedo G.	Choosing the best approach for laterally spreading lesions at the anorectal junction.	Gut 2021	10.1136/gutjnl-2020-322392
Pinto-Lopes P, Melo F, Afonso J, Pinto-Lopes R, Rocha C, Melo D, Macedo G, Dias CC, Carneiro F , Magro F; Portuguese IBD Study Group (GEDII).	Fecal Dipeptidyl Peptidase-4: An Emergent Biomarker in Inflammatory Bowel Disease.	Clin Transl Gastroenterol 2021	10.14309/ctg.0000000000000320
Gomes F, Melo D, Esteves C, Lima B, Carneiro F , Oliveira P.	Undifferentiated embryonal sarcoma of the liver: A rare hepatic tumor and its related characteristic radiological features.	Radiol Case Rep 2021	10.1016/j.radcr.2020.12.017
Mascarenhas Saraiva M, Ribeiro T, Moreira F, Lopes J , Corte Real A, Macedo G.	A Gastric Lesion Revealing a Small-Cell Lung Cancer: A Rare Case.	GE Port J Gastroenterol 2021	10.1159/000515654
Garrido I, Santos AL, Lopes J , Lopes S, Macedo G.	Hepatotoxicity in inflammatory bowel disease: mesalazine, the forgotten drug	Eur J Gastroenterol Hepatol 2021	10.1097/MEG.0000000000002306
Washington MK, Goldberg RM, Chang GJ, Limburg P, Lam AK, Salto-Tellez M, Arends MJ, Nagtegaal ID, Klimstra DS, Rugge M, Schirmacher P, Lazar AJ, Odze RD, Carneiro F , Fukayama M, Cree IA.	Diagnosis of digestive system tumours.	Int J Cancer 2021	10.1002/ijc.33210
Solorzano L, Pereira C, Martins D, Almeida R, Carneiro F , Almeida GM, Oliveira C, Wahlby C.	Towards Automatic Protein Co-Expression Quantification in Immunohistochemical TMA Slides.	IEEE J Biomed Health Inform 2021	10.1109/JBHI.2020.3008821
Morais M, Fonseca T, Machado-Neves R, Honavar M, Coelho AR, Lopes J , Barbosa E, Guerreiro E, Carneiro S.	Can pretreatment blood biomarkers predict pathological response to neoadjuvant chemoradiotherapy in patients with locally advanced rectal cancer?	Future Oncol 2021	10.2217/fo-2021-0707
Mascarenhas Saraiva M, Ribeiro T, Dias E, Lopes JL , Cardoso H, Macedo G.	Vedolizumab-Induced Liver Injury.	GE Port J Gastroenterol 2020	10.1159/000511644
Garrido I, Coelho R, Lopes J , Macedo G.	Unexpected diagnosis for nodular hepatic lesions.	Rev Esp Enferm Dig 2021	10.17235/reed.2021.8230/2021
Saliba G, Detlefsen S, Carneiro F , Conner J, Dorer R, Fléjou JF, Hahn H, Kamaradova K, Mastracci L, Meijer SL, Sabo E, Sheahan K, Riddell R, Wang N, Yantiss RK, Lundell L, Low D, Vieth M, Klevebro F.	Tumor regression grading after neoadjuvant treatment of esophageal and gastroesophageal junction adenocarcinoma: results of an international Delphi consensus survey.	Hum Pathol 2021	10.1016/j.humpath.2020.11.001
Silva LM, Correia VG, Moreira ASP, Domingues MRM, Ferreira RM, Figueiredo C, Azevedo NF, Marcos-Pinto R, Carneiro F , Magalhães A, Reis CA, Feizi T, Ferreira JA, Coimbra MA, Palma AS.	Helicobacter pylori lipopolysaccharide structural domains and their recognition by immune proteins revealed with carbohydrate microarrays.	Carbohydr Polym 2021	10.1016/j.carbpol.2020.117350
Marques MS, Costa AC, Osório H, Pinto ML, Relvas S, Dinis-Ribeiro M, Carneiro F , Leite M, Figueiredo C.	<i>Helicobacter pylori</i> PqqE is a new virulence factor that cleaves junctional adhesion molecule A and disrupts gastric epithelial integrity.	Gut Microbes 2021	10.1080/19490976.2021.1921928
Lugli A, Carneiro F , Dawson H, Fléjou JF, Kirsch R, van der Post RS, Vieth M, Svrcek M.	The gastric disease of Napoleon Bonaparte: brief report for the bicentenary of Napoleon's death on St. Helena in 1821.	Virchows Arch 2021	10.1007/s00428-021-03061-1
Ringborg U, Berns A, Celis JE, Heitor M, Tabernero J, Schüz J, Baumann M, Henrique R, Aapro M, Basu P, Beets-Tan R, Besse B, Cardoso F, Carneiro F , van den Eede G, Eggermont A, Fröhling S, Galbraith S, Garralda E, Hanahan D, Hofmarcher T, Jönsson B, Kallioniemi O, Kásler M, Kondorosi E, Korbel J, Lacombe D, Carlos Machado J, Martin-Moreno JM, Meunier F, Nagy P, Nuciforo P, Oberst S, Oliveira J,	The Porto European Cancer Research Summit 2021.	Mol Oncol 2021	10.1002/1878-0261.13078

Papatriantafyllou M, Ricciardi W, Roediger A, Ryll B, Schilsky R, Scocca G, Seruca R, Soares M, Steindorf K, Valentini V, Voest E, Weiderpass E, Wilking N, Wren A, Zitzvogel L.			
Pereira C, Park JH, Campelos S, Gullo I , Lemos C, Solorzano L, Martins D, Gonçalves G, Leitão D, Lee HJ, Kong SH, André A, Borges C, Almeida D, Wälbyh C, Almeida R, Kim WH, Carneiro F , Yang HK, Almeida GM, Oliveira C.	Comparison of East-Asia and West-Europe cohorts explains disparities in survival outcomes and highlights predictive biomarkers of early gastric cancer aggressiveness.	Int J Cancer 2022	10.1002/ijc.33872.
Matos R, Taillieu E, De Bruyckere S, De Witte C, Rêma A, Santos-Sousa H, Nogueiro J, Reis CA, Carneiro F , Haesebrouck F, Amorim I, Gärtner F.	Presence of <i>Helicobacter</i> Species in Gastric Mucosa of Human Patients and Outcome of <i>Helicobacter</i> Eradication Treatment.	J Pers Med 2022	10.3390/jpm12020181
Matos R, Sousa HS, Nogueiro J, Magalhães A, Reis CA, Carneiro F , Amorim I, Haesebrouck F, Gärtner F.	Helicobacter species binding to the human gastric mucosa.	Helicobacter 2022	10.1111/hel.12867
Santos-Antunes J, Marques M, Morais R, Baldaque-Silva F, Vilas-Boas F, Moutinho-Ribeiro P, Lopes S, Carneiro F , Macedo G.	Retrospective analysis of the outcomes of endoscopic submucosal dissection for the diagnosis and treatment of subepithelial lesions in a center with high expertise.	Ann Gastroenterol 2022	10.20524/aog.2021.0675
Marques-Magalhães Â, Cruz T, Costa ÂM, Estêvão D, Rios E, Canão PA, Velho S, Carneiro F , Oliveira MJ, Cardoso AP.	Decellularized Colorectal Cancer Matrices as Bioactive Scaffolds for Studying Tumor-Stroma Interactions.	Cancers (Basel) 2022	10.3390/cancers14020359
Parente P, Pastore M, Grillo F, Fassan M, Francalanci P, Dirodi A, Rossi C, Arpa G, De Angelis P, Gullo I , Mastracci L, Alaggio R, Vanoli A.	Very Early Onset-IBD: evidence for the need of a multidisciplinary approach.	Pathologica 2022	10.32074/1591-951X-336.
Garcia-Pelaez J, Barbosa-Matos R, São José C, Sousa S, Gullo I , Hoogerbrugge N, Carneiro F , Oliveira C.	Gastric cancer genetic predisposition and clinical presentations: Established heritable causes and potential candidate genes.	Eur J Med Genet 2022	10.1016/j.ejmg.2021.104401.
Tavares de Sousa H, Carneiro F .	Understanding progression of strictures in ileal Crohn's disease- The importance of setting methodological standards.	United European Gastroenterol J 2022	10.1002/ueg2.12327.
de Sousa HT, Gullo I , Magro F.	Fibromuscular Expansion in Crohn's Disease Ileal Strictures: An Open Issue.	Clin Gastroenterol Hepatol 2022	10.1016/j.cgh.2022.06.023
Ferreira RM, Figueiredo J, Pinto-Ribeiro I, Gullo I , Sgouras DN, Carreto L, Castro P, Santos MA,	Activation of Laminin γ 2 by <i>Helicobacter pylori</i> promotes invasion and survival of gastric cancer cells with E-cadherin defects.	J Infect Dis 2022	10.1093/infdis/jiac397
Mastracci L, Grillo F, Parente P, Gullo I , Campora M, Angerilli V, Rossi C, Sacramento ML, Pennelli G, Vanoli A, Fassan M.	PD-L1 evaluation in the gastrointestinal tract: from biological rationale to its clinical application.	Pathologica 2022	10.32074/1591-951X-803
Lordick F, Carneiro F , Cascinu S, Fleitas T, Haustermans K, Piessen G, Vogel A, Smyth EC; ESMO Guidelines Committee.	Gastric cancer: ESMO Clinical Practice Guideline for diagnosis, treatment and follow-up	Ann Oncol 2022	10.1016/j.annonc.2022.07.004
Ruivo CF, Bastos N, Adem B, Batista I, Duraes C, Melo CA, Castaldo SA, Campos-Laborie F, Moutinho-Ribeiro P, Morão B, Costa-Pinto A, Silva S, Osorio H, Ciordia S, Costa JL, Goodrich D, Cavadas B, Pereira L, Kouzarides T, Macedo G, Maio R, Carneiro F , Cravo M, Kalluri R, Machado JC, Melo SA.	Extracellular Vesicles from Pancreatic Cancer Stem Cells Lead an Intratumor Communication Network (EVNet) to fuel tumour progression.	Gut 2022	10.1136/gutjnl-2021-324994
Moutinho-Ribeiro P, Batista IA, Quintas ST, Adem B, Silva M, Morais R, Peixoto A, Coelho R, Costa-Moreira P, Medas R, Lopes S, Vilas-Boas F, Baptista M, Dias-Silva D, Esteves AL, Martins F, Lopes J , Barroca H, Carneiro F , Macedo G, Melo SA.	Exosomal glypican-1 is elevated in pancreatic cancer precursors and can signal genetic predisposition in the absence of endoscopic ultrasound abnormalities.	World J Gastroenterol 2022	10.3748/wjg.v28.i31.4310

Angerilli V, Fassan M, Parente P, Gullo I , Campora M, Rossi C, Sacramento ML, Pennelli G, Vanoli A, Grillo F, Mastracci L.	A practical approach for PD-L1 evaluation in gastroesophageal cancer.	Pathologica 2022	10.32074/1591-951X-836.
Garrido I, Rodrigues-Pinto E, Gullo I , Macedo G.	Endoscopic Balloon Dilatation of a Pyloric Stricture Caused by Sarcina Ventriculi Infection.	J Gastrointestin Liver Dis. 2022	10.15403/jgld-4505.
do Nascimento CN, Mascarenhas-Lemos L, Silva JR, Marques DS, Gouveia CF, Faria A, Velho S, Garrido R, Maio R, Costa A, Pontes P, Wen X, Gullo I , Cravo M, Carneiro F .	EBV and MSI Status in Gastric Cancer: Does It Matter?	Cancers (Basel) 2022	10.3390/cancers15010074
van Schooten TS, Derks S, Jiménez-Martí E, Carneiro F , Figueiredo C, Ruiz E, Alsina M, Molero C, Garrido M, Riquelme A, Caballero C, Lezcano E, O'Connor JM, Estes F, Farrés J, Mas JM, Lordick F, Vogt J, Cardone A, Girvalaki C, Cervantes A, Fleitas T; members of LEGACy consortium.	The LEGACy study: a European and Latin American consortium to identify risk factors and molecular phenotypes in gastric cancer to improve prevention strategies and personalized clinical decision making globally.	BMC Cancer 2022	10.1186/s12885-022-09689-9
Bordeira-Carriço R, Teixeira J, Duque M, Galhardo M, Ribeiro D, Acemel RD, Firas PN, Tena JJ, Eufrásio A, Marques J, Ferreira FJ, Freitas T, Carneiro F , Gómez-Skarmeta JL, Bessa J.	Multidimensional chromatin profiling of zebrafish pancreas to uncover and investigate disease-relevant enhancers.	Nat Commun 2022	10.1038/s41467-022-29551-7
Santos M, Ferreira M, Oliveira P, Mendes N, André A, Vieira AF, Nunes JB, Carvalho J, Rocha S, Azevedo M, Ferreira D, Reis I, Vinagre J, Paredes J, Heravi-Moussavi A, Lima J, Máximo V, Burleigh A, Roskelley C, Carneiro F , Huntsman D, Oliveira C.	Epithelial-Mesenchymal Plasticity Induced by Discontinuous Exposure to TGFβ1 Promotes Tumour Growth.	Biology (Basel) 2022	10.3390/biology11071046
Dias E, Santos-Antunes J, Marques M, Andrade P, Peixoto A, Santos AL, Carneiro F , Macedo G.	Clinical and endoscopic findings in gastrointestinal amyloidosis: a single-center experience.	Rev Esp Enferm Dig 2022	10.17235/reed.2022.8656/2022
Amendoeira I, Arcidiacono PG, Barizzi J, Capitano A, Cuatrecasas M, Di Matteo FM, Doglioni C, Fukushima N, Fulcinitti F, Ginès A, Giovannini M, Zaibo L, Lopes J , Lujan G, Parisi A, Poizat F, Reggiani Bonetti L, Stigliano S, Taffon C, Verri M, Crescenzi A.	New digital confocal laser microscopy may boost real-time evaluation of endoscopic ultrasound-guided fine-needle biopsy (EUS-FNB) from solid pancreatic lesions: Data from an international multicenter study.	EbioMedicine 2022	10.1016/j.ebiom.2022.104377
Garrido I, Magalhães A, Lopes J , Macedo G.	Trastuzumab Emtansine-Induced Nodular Regenerative Hyperplasia: Is Dose Reduction Enough as a Preventable Measure?	Dig Dis 2022	10.1159/000521933.
Dias E, Cardoso H, Pacheco J, Lopes J , Macedo G.	Ciliated hepatic foregut cyst: An uncommon cystic liver lesion.	Clin Res Hepatol Gastroenterol 2022	10.1016/j.clinre.2022.101949.
Moutinho-Ribeiro P, Adem B, Batista I, Silva M, Silva S, Ruivo CF, Morais R, Peixoto A, Coelho R, Costa-Moreira P, Lopes S, Vilas-Boas F, Durães C, Lopes J , Barroca H, Carneiro F , Melo SA, Macedo G.	Exosomal glypican-1 discriminates pancreatic ductal adenocarcinoma from chronic pancreatitis.	Dig Liver Dis 2022	10.1016/j.dld.2021.10.012
Moreira AM, Ferreira RM, Carneiro P, Figueiredo J, Osório H, Barbosa J, Preto J, Pinto-do-Ó P, Carneiro F , Seruca R.	Proteomic Identification of a Gastric Tumor ECM Signature Associated With Cancer Progression.	Front Mol Biosci 2022	10.3389/fmolb.2022.818552
Carneiro F.	Familial and hereditary gastric cancer, an overview.	Best Pract Res Clin Gastroenterol 2022	10.1016/j.bpg.2022.101800
Brás MM, Sousa SR, Carneiro F , Radmacher M, Granja PL.	Mechanobiology of Colorectal Cancer.	Cancers (Basel) 2022	10.3390/cancers14081945
Dias E, Andrade P, Lopes S, Gonçalves R, Cardoso P, Gaspar R, Cardoso H, Lopes J , Carneiro F , Macedo G.	Liver biopsy in inflammatory bowel disease patients with sustained abnormal liver function tests: a retrospective single-center study.	Ann Gastroenterol 2023	10.20524/aog.2023.0761
Melo S, Guerrero P, Moreira Soares M, Bordin JR, Carneiro F , Carneiro P, Dias MB, Carvalho J.	The ECM and tissue architecture are major determinants of early invasion	Commun Biol 2023	10.1038/s42003-023-05482-x

Figueiredo J, Seruca R, Travasso RDM.	mediated by E-cadherin dysfunction.		
Garrido I, Peixoto A, Lopes J , Macedo G.	Gelée Blanche.	Am J Gastroenterol 2023	10.14309/ajg.0000000000002607
Gullo I , Pelaez JC, Morais R, Ding Y, Oliveira C, Carneiro F .	Histopathology of Hereditary Diffuse Gastric Cancer: From Grossing and 3D Microscopy to Immunophenotypic and Molecular Profiling. Book Chapter in Hereditary Gastric and Breast Cancer Syndrome. Editors: Corso Giovanni, Veronesi Paolo, Roviello Franco.	Springer Nature 2023	10.1007/978-3-031-21317-5_9
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