

CURRICULUM VITAE (SHORT) PROF. PIERO PORTINCASA



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Mission: "To encourage excellent, honest, highly innovative and sound clinical science through collaborations and mobility of young investigators across Europe and worldwide"

Publications available at: [portincasa p - Search Results - PubMed \(nih.gov\)](https://pubmed.ncbi.nlm.nih.gov/search/p/?q=portincasa+p)

Total N. publications >700 in peer-reviewed articles

N. 6 books

N. 7 Journal issues

Author > 50 book chapters;

Total IF >3000

Best cited paper: Lancet 368; 230-39, 2006 (n=771 times)

Scopus total citations 15121, H-index 60

Google Scholar total citations 25142, H-index 83

WOS total citations 13693, H-index 57

Current appointments

- Full Professor Internal Medicine
- Chief, Division Internal Medicine Clinica Medica "A. Murri" (2016-), Dept. Biomedical Sciences & Human Oncology, University of Bari Medical School, Bari, Italy
- Chief interim, Division of Internal Medicine "D'Agostino", Policlinico Hospital, Bari
- March 2020-to date, Chief COVID/non-COVID Units Hospital Policlinico
- Director, Regional referral center for Familial Mediterranean Fever (FMF) (2017-)
- Director 4-yr Residency program Geriatrics (2016-22)

Education - Training

MD Degree (1981), Internist (1986), University of Bari Medical School. Research Fellow (Grant from Italian Ministry of University 1985-87) with Prof. R.H. Dowling at Guy's Hospital, London, UK on aspects of hepato-biliary pathophysiology. Assistant Professor at University of Bari Medical School (1991) leading basic and clinical studies on gastrointestinal motility and lipid homeostasis. Research Fellow and Staff Member with Prof. G.P. vanBerge-Henegouwen and Dr. K.J. van Erpecum at Academic Hospital Utrecht University, Netherlands (1993-95), Ph.D. Program. Associate Professor Internal Medicine at University of Bari (2001). Italian National Centre for Research (CNR) Fellowship (2005) at Harvard Medical School, Beth Israel Deaconess Medical Center, Boston, USA with Dr. D.Q.-H. Wang, Prof. J.T. LaMont in hepatobiliary lipidology, animal and human models of cholesterol cholelithiasis, gastrointestinal motility and enterohepatic circulation, methodology of research. Winner National Professorship of Internal Medicine, Bologna University, Italy (2010). Full Professor Internal Medicine Bari University, Italy (2015).

Scientific achievements

- PhD (Utrecht University, Netherlands, 1995)
- Councillor PhD program Salute Pubblica, Medicina Clinica e Oncologia (cycle 35, 36, 37)(2019-21)
- Councillor PhD program SCIENZE DEL SUOLO E DEGLI ALIMENTI (cycle 30-34) (2013-2018)
- Past-director Residency programme in Internal Medicine 1 (2018-12)
- Visiting Professor ("I. Hatieganu" University, Cluj-Napoca, Romania, 2009-)
- Past President European Society Clinical Investigation (ESCI) (2012-15)
- President ESCI Trust Foundation (2015-to date)
- Member Apulian Academy of Sciences

- National councillor (2013-17), Secretary (2015-17) Italian Society Internal Medicine (SIMI)
- President Apulian Section Italian Society Study Atherosclerosis (SISA) (2016-)
- Laurea H. Causa "C. Davila" University (Bucharest, Romania, 2013)
- Laurea H. Causa "I. Hatieganu" University (Cluj-Napoca, Romania, 2013)
- Laurea H. Causa University of Medicine and Pharmacy, Science and Technology (UMFST), Targu-Mures Romania (2018)
- American Gastroenterological Fellowship (AGAF) (2020)
- Recipient ESCI "A. Struyvenberg" Medal (2018)
- American Gastroenterological Association Fellowship (AGAF), 2019
- Member of several International Scientific Societies, Journal Editorial Boards, Honorary Member of the Romanian Society Gastroenterology and Hepatology (2012-)
- Mentor, panelist in Ph.D. programs University of Utrecht (Netherlands), Coimbra, Porto (Portugal), Pamplona (Spain).
- Mentor of 2 Early-stage foreign researchers (Foie Gras H2020 project, 2019-21)

Research Interests

- **Prof. Portincasa has major research interests in the field of GASTROINTESTINAL MOTILITY, DIGESTION, NUTRIENTS, INTESTINAL PERMEABILITY, MICROBIOTA, GUT-LIVER AXIS, LIVER STEATOSIS AND LIPID METABOLISM, FOOD INTOLERANCE, CARDIOVASCULAR DISEASE, CLINICAL AND FUNCTIONAL ULTRASONOGRAPHY, INFLAMMATORY MEDIATORS IN HEALTH AND DISEASE, RARE, GENETIC DISEASES (FAMILIAL MEDITERRANEAN FEVER). Since March 2020, he has been involved in issues related to COVID-19 (Lung, gastrointestinal tract, liver, metabolism, governance).**
- **He is actively involved in national/international academic-private networks to promote activities in the field of research training center for clinical studies and methodology of research, food composition and digestive properties, interaction food-microbiota, application of stable isotope tests and diagnostic/functional ultrasonography.**
- **Main academic international collaborations testified by scientific publications: Universities of Coimbra, Porto, Lisbon (Portugal), Saarbrücken (Germany), Warsaw (Poland), Cluj-Napoca, Targu-Mures, Bucarest (Romania), Einstein College of Medicine (New York, USA), Harvard Medical School (Boston, USA), Ludwig-Maximilian (Berlin, Germany), Pamplona (Spain), Lublin (Poland), Ghent (Belgium).**
- **Main private interactions: Aboca (San Sepolcro, Italy), Eurisko-Hitachi (Bari, Italy), Richen Force (Beijing, China)**
- He is leading a large group of residents, postgraduate PhD students in Italy and abroad.
- Application of ultrasonography in topics of internal medicine (gallbladder, liver, portal tract, spleen, stomach) in functional diseases.
- PI large studies on impaired gallbladder and gastrointestinal motility in gallstone patients & obese children, obese newborns, irritable bowel syndrome.
- Disrupted gastrointestinal motility and autonomic neuropathy in colonic inertia.
- Basic, translational, clinical research on diseases in lipid metabolism, enterohepatic circulation, hepatobiliary disorders, liver steatosis, bile acid metabolism, gastrointestinal motility permeability, microbiota, breath tests, nutritional aspects, Familial Mediterranean Fever and autoinflammatory disorders; metabolic disorders, intestinal microbiota, COVID-19 (epidemiological, clinical aspects) Isolation of family clusters with Familial Mediterranean Fever in Apulia and Basilicata, including the oldest patients in the world developing symptoms at age 86. Studies on genetic aspects of FMF and a novel blood-based test for functional diagnosis of FMF.
- Studies on COVID-19 pandemia
- First demonstration of a potent CCK- motilin-mediated prokinetic effect of cholestyramine alone on human gallbladder. Potential use of cholestyramine in the prevention/cure of cholesterol cholelithiasis.
- First demonstration/quantification of anhydrous cholesterol crystal in human bile (polarizing light microscopy).
- ApoE4 genotype influence on gallstone recurrence in humans.
- First demonstration ezetimibe prevents biliary cholesterol crystallization in mice and gallstone patients via inhibition of intestinal NPC1L1.
- Genetic and clinical studies on cholestatic liver diseases and liver steatosis in animal models and humans
- Original translational studies on aquaporin (AQP)-mediated water transport in intestine and liver.
- Development of novel breath tests for the study of gastrointestinal and liver functions
- Key role of mitochondrial function in physical exercise and liver diseases.
- First demonstration in humans that statins increase expression of the aquaporin channel AQP2 in urines, as marker of increased apical expression of AQP2 in the kidney collecting duct. Potential treatment of X-linked nephrogenic diabetes insipidus.
- Tribute to the Nobel Laureate in Chemistry 2003 Peter Agre, discoverer of the water transporters AQPs
- Contribution to epidemiological Italian studies on the fate of atrial fibrillation – The ARAPACIS study
- Large international study on genetic variants of NAV1.5 (channelopathies) in irritable bowel syndrome, role of sucrose-isomaltase genes and correlation genetic-symptoms.

- Study on intestinal permeability by innovative sugar-probe test, microbiota.
- Aspects of metabolic syndrome, fatty liver, lifestyles

Teaching

- Undergraduate programme in Medicine (Italian/English: Medical Semeiology, Internal Medicine, Geriatrics)
- Postgraduate medical programs (Internal Medicine, Geriatrics, other specialties)
- Erasmus+ Delegate (School of Medicine 2000 and University of Bari -2015) for the mobility of undergraduate and postgraduate students
- Teaching coordinator 6-yr Degree Bari English Medical Curriculum (BEMC) since 2012
- Tutor-cotutor of Degree Theses and PhD Theses in Medicine and Biology in Bari and abroad
- Teacher for different Postgraduate Courses on Methodology of Research, Clinical Ultrasonography, Clinical Medicine


Clinical responsibilities

- Internal Medicine (in- outpatients, clinical protocols in lipidology, gastrointestinal, cardiovascular, liver diseases, COVID, post-COVID, Familial mediterranean fever)
- Development of several diagnostic tests for the study of intestinal function, liver diseases.
- Implementation of diagnostic/invasive clinical ultrasonography
- Since February 2020: Head Divisions of Internal Medicine (total 40 beds) dedicated to COVID-19 patients

Main Research projects

1. Portincasa P. Call: HORIZON-HLTH-2022-STAYHLTH-01-two-stage (Staying healthy (Two stage - 2022))
Topic: HORIZON-HLTH-2022-STAYHLTH-01-01-two-stage. Type of Action: HORIZON-RIA. Proposal number: 101080329-2. DE-RISKING METABOLIC, ENVIRONMENTAL AND BEHAVIORAL DETERMINANTS OF OBESITY IN CHILDREN, ADOLESCENTS AND YOUNG ADULTS (PAS GRAS): University of Bari Aldo Moro, 2023
2. Portincasa P. PRIMA 2023-25. Box for Health by Tradition & Innovation: promoting sustainable Mediterranean diet by Healthy Foods - B4HT: University of Bari Aldo Moro, 2023
3. Portincasa P. EUROSEEDS Uniba - S56 - By-products Sustainable Recovery 4 Health (BSR-4H). Cluster N. 6. Foods, Bioeconomy, Natural Resources, Agriculture and Environment: University of Bari Aldo Moro, 2022
4. Portincasa P. SYSTEMIC - An integrated approach to the challenge of sustainable food systems: adaptive and mitigatory strategies to address climate change and malnutrition (SYSTEMIC) - ERA-HDHL Knowledge Hub on Food and Nutrition Security In collaboration with JPI-OCEANS and FACCE-JPI: European Commission, 2020
5. Portincasa P. FISR2020IP_04051 (CoVAPin)- Inibizione dell'Acquaporina-9 come nuova terapia dell'iperinfiammazione (Inhibition of Aquaporin-9 as a new therapy for hyperinflammation): MIUR 2019
6. Portincasa P. FEVER APULIAE - Febbre Mediterranea Familiare (FMF) in Puglia: studio del background genotipico, del microbiota intestinale e presentazione clinica. Outcome diagnostico-terapeutico e confronto con etnie differenti (70k euros): Region Apulia (Rare Diseases - all'art. 6 della l.r. n. 15 del 2018), 2019
7. Portincasa P. mtFoie Gras (RISE) (Horizon 2020) (54k): European Commission Program: Marie Skłodowska-Curie Actions /Call: H2020-MSCA-RISE-2016 , RESEARCH AND INNOVATION STAFF EXCHANGE Proposal No: 734719, 2018
8. Portincasa P. Foie Gras (Horizon 2020 - Marie Curie Early Research Training) European Commission Program: Marie Skłodowska-Curie Actions, Innovative Training Networks Programme/Call: H2020 — H2020-MSCA-ITN-2016/H2020-MSCA-ITN-2016, Proposal No: 722619 (0.52M)(<http://www.projectfoiegras.eu/about/>). Volume 3.2M (0.52M), 2018
9. Portincasa P. JPI HDHL DEDIPAC Knowledge Hub on Determinants of Diet and Physical Activity" (DEDIPAC KH EiO n. 240). Ministry of University (IT) INTegrated Research on Eating and Physical activity Interventions and Drivers" (INTREPID) (8000 euro), 2014

Bari 11.07.2023



Ai sensi e per effetto del D.Lgs. n. 196/2003 'Codice in materia di protezione dei dati personali e sensibili', autorizzo al trattamento dei dati e delle informazioni contenute nel curriculum vitae per gli adempimenti connessi alla valutazione in oggetto.

P. PORTINCASA – PAPERS IN JOURNALS WITH IMPACT FACTOR

1. Wang DQH, Portincasa P, Liu M, Tso P. Overcoming Ductal Block: Emergency ERCP and Sphincterotomy Plus Common Bile Duct Stenting Improves Therapeutic Outcomes in Severe Gallstone Pancreatitis. *Digestive Diseases and Sciences* 2021
2. Shanmugam H, Di Ciaula A, Di Palo DM, Molina-Molina E, Garruti G, Faienza MF, vanErpecum K, Portincasa P. Multiplying effects of COVID-19 lockdown on metabolic risk and fatty liver. *European Journal of Clinical Investigation* 2021
3. Shanmugam H, Di Ciaula A, Di Palo DM, Molina-Molina E, Garruti G, Faienza MF, vanErpecum K, Portincasa P. Multiplying effects of COVID-19 lockdown on metabolic risk and fatty liver. *Eur J Clin Invest* 2021;51:e13597
4. Scardapane A, Villani L, Bavaro DF, Passerini F, Ianora AAS, Lucarelli NM, Angarano G, Portincasa P, Palmieri VO, Saracino A. Pulmonary Artery Filling Defects in COVID-19 Patients Revealed Using CT Pulmonary Angiography: A Predictable Complication? *Biomed Res Int* 2021;2021:8851736
5. Scardapane A, Villani L, Bavaro DF, Passerini F, Ianora AAS, Lucarelli NM, Angarano G, Portincasa P, Palmieri VO, Saracino A. Pulmonary Artery Filling Defects in COVID-19 Patients Revealed Using CT Pulmonary Angiography: A Predictable Complication? *Biomed Res Int* 2021;2021:8851736
6. Portincasa P, Di Ciaula A, Wang DQ. Longer Walking Distance, More Fat, Better Survival: Prognostic Indicators of Liver Cirrhosis. *J Gastrointest Liver Dis* 2021;30:8-12
7. Portincasa P, Di Ciaula A, Wang DQ. Longer Walking Distance, More Fat, Better Survival: Prognostic Indicators of Liver Cirrhosis. *J Gastrointest Liver Dis* 2021;30:8-12
8. Molina-Molina E, Shanmugam H, Di Palo D, Grattagliano I, Portincasa P. Exploring Liver Mitochondrial Function by (13)C-Stable Isotope Breath Tests: Implications in Clinical Biochemistry. *Methods Mol Biol* 2021;2310:179-199
9. Molina-Molina E, Shanmugam H, Di Ciaula A, Grattagliano I, Di Palo DM, Palmieri VO, Portincasa P. ((13)C)-Methacetin breath test provides evidence of subclinical liver dysfunction linked to fat storage but not lifestyle. *JHEP Rep* 2021;3:100203
10. Grattagliano I, Di Ciaula A, Baj J, Molina-Molina E, Shanmugam H, Garruti G, Wang DQ, Portincasa P. Protocols for Mitochondria as the Target of Pharmacological Therapy in the Context of Nonalcoholic Fatty Liver Disease (NAFLD). *Methods Mol Biol* 2021;2310:201-246
11. Fruhbeck G, Catalan V, Valenti V, Moncada R, Gomez-Ambrosi J, Becerril S, Silva C, Portincasa P, Escalada J, Rodriguez A. FNDC4 and FNDC5 reduce SARS-CoV-2 entry points and spike glycoprotein S1-induced pyroptosis, apoptosis, and necroptosis in human adipocytes. *Cell Mol Immunol* 2021;18:2457-2459
12. Di Ciaula A, Portincasa P. Relationships between emissions of toxic airborne molecules and type 1 diabetes incidence in children: An ecologic study. *World Journal of Diabetes* 2021;12:673-684
13. Di Ciaula A, Passarella S, Shanmugam H, Noviello M, Bonfrate L, Wang DQ-H, Portincasa P. Nonalcoholic Fatty Liver Disease (NAFLD). Mitochondria as Players and Targets of Therapies? *International Journal of Molecular Sciences* 2021;22:5375
14. Di Ciaula A, Krawczyk M, Filipiak KJ, Geier A, Bonfrate L, Portincasa P. Noncommunicable diseases, climate change and iniquities: what COVID-19 has taught us about syndemic. *Eur J Clin Invest* 2021:e13682
15. Di Ciaula A, Carbone F, Shanmugam H, Molina-Molina E, Bonfrate L, Ministrini S, Montecucco F, Portincasa P. Adiponectin involved in portal flow hepatic extraction of 13C-metacethin in obesity and non-alcoholic fatty liver. *Eur J Intern Med* 2021
16. Di Ciaula A, Calamita G, Shanmugam H, Khalil M, Bonfrate L, Wang DQ, Baffy G, Portincasa P. Mitochondria Matter: Systemic Aspects of Nonalcoholic Fatty Liver Disease (NAFLD) and Diagnostic Assessment of Liver Function by Stable Isotope Dynamic Breath Tests. *Int J Mol Sci* 2021;22
17. Di Ciaula A, Bonfrate L, Noviello M, Portincasa P. Thyroid Function: a Target for Endocrine Disruptors, Air Pollution, and Radiofrequencies. *Endocr Metab Immune Disord Drug Targets* 2021
18. Cosola C, Rocchetti MT, di Bari I, Acquaviva PM, Maranzano V, Corciulo S, Di Ciaula A, Di Palo DM, La Forgia FM, Fontana S, De Angelis M, Portincasa P, Gesualdo L. An Innovative Synbiotic Formulation Decreases Free Serum Indoxyl Sulfate, Small Intestine Permeability and Ameliorates Gastrointestinal Symptoms in a Randomized Pilot Trial in Stage IIIb-IV CKD Patients. *Toxins* 2021;13:334
19. Cordell HJ, Fryett JJ, Ueno K, Darlay R, Aiba Y, Hitomi Y, Kawashima M, Nishida N, Khor SS, Gervais O, Kawai Y, Nagasaki M, Tokunaga K, Tang R, Shi Y, Li Z, Juran BD, Atkinson EJ, Gerussi A, Carbone M, Asselta R,

- Cheung A, de Andrade M, Baras A, Horowitz J, Ferreira MAR, Sun D, Jones DE, Flack S, Spicer A, Mulcahy VL, Byan J, Han Y, Sandford RN, Lazaridis KN, Amos CI, Hirschfield GM, Seldin MF, Invernizzi P, Siminovitch KA, Ma X, Nakamura M, Mells GF, Consortia PBC, Canadian PBCC, Chinese PBCC, Italian PBCSG, Japan PBCGC, Consortium UP, Consortium U-P. An international genome-wide meta-analysis of primary biliary cholangitis: Novel risk loci and candidate drugs. *J Hepatol* 2021;75:572-581
20. Carratu P, Di Ciaula A, Dragonieri S, Ranieri T, Matteo Ciccone M, Portincasa P, Resta O. Relationships between Obstructive Sleep Apnea Syndrome and cardiovascular risk in a naive population of southern Italy. *Int J Clin Pract* 2021:e14952
 21. Carbone F, Ciaula AD, Pagano S, Minetti S, Ansaldo AM, Ferrara D, Belfiore A, Elia E, Pugliese S, Ostilio Palmieri V, Montecuccio F, Vuilleumier N, Portincasa P. Anti-ApoA-1 IgGs predict resistance to waist circumference reduction after Mediterranean diet. *Eur J Clin Invest* 2021;51:e13410
 22. Bellini M, Berti G, Bonfrate L, Ciranni F, Di Ciaula A, Di Ruscio M, Dell'Era A, Lambiase C, Noto A, Pancetti A, Portincasa P, Rettura F. Use of GELSECTAN((R)) in Patients with Irritable Bowel Syndrome (IBS): an Italian Experience. *Patient Prefer Adherence* 2021;15:1763-1774
 23. Baldini F, Khalil M, Serale N, Voci A, Portincasa P, Vergani L. Extent and features of liver steatosis in vitro pave the way to endothelial dysfunction without physical cell-to-cell contact. *Nutr Metab Cardiovasc Dis* 2021
 24. Baj J, Forma A, Flieger W, Morawska I, Michalski A, Buszewicz G, Sitarz E, Portincasa P, Garruti G, Flieger M, Teresiński G. *Helicobacter pylori* Infection and Extragastric Diseases—A Focus on the Central Nervous System. *Cells* 2021;10:2191
 25. Asselta R, Paraboschi EM, Gerussi A, Cordell HJ, Mells GF, Sandford RN, Jones DE, Nakamura M, Ueno K, Hitomi Y, Kawashima M, Nishida N, Tokunaga K, Nagasaki M, Tanaka A, Tang R, Li Z, Shi Y, Liu X, Xiong M, Hirschfield G, Siminovitch KA, Canadian USPBC, Italian PBCGSG, Consortium U-P, Japan PBCGC, Carbone M, Cardamone G, Duga S, Gershwin ME, Seldin MF, Invernizzi P. X Chromosome Contribution to the Genetic Architecture of Primary Biliary Cholangitis. *Gastroenterology* 2021
 26. Altomare DF, Picciariello A, Di Ciaula A, Rinaldi M, De Fazio M, Portincasa P. Effects of temporary sacral nerve stimulation on gastrointestinal motility and function in patients with chronic refractory slow-transit constipation. *Tech Coloproctol* 2021;25:291-297
 27. Zullo A, Fiorini G, Bassotti G, Bachetti F, Monica F, Macor D, Paoluzi OA, Scaccianoce G, Portincasa P, De Francesco V, Lorenzetti R, Saracino IM, Pavoni M, Vaira D. Upper Endoscopy in Patients with Extra-Oesophageal Reflux Symptoms: A Multicentre Study. *GE Port J Gastroenterol* 2020;27:312-317
 28. Wang HH, Portincasa P, Liu M, Tso P, Wang DQ. An Update on the Lithogenic Mechanisms of Cholecystokinin a Receptor (CCKAR), an Important Gallstone Gene for Lith13. *Genes (Basel)* 2020;11
 29. Wang HH, Lee DK, Liu M, Portincasa P, Wang DQH. Novel Insights into the Pathogenesis and Management of the Metabolic Syndrome. *Pediatric Gastroenterology, Hepatology & Nutrition* 2020;23
 30. Wang HH, Bari O, Arnatt CK, Liu M, Portincasa P, Wang DQH. Activation of Estrogen Receptor G Protein–Coupled Receptor 30 Enhances Cholesterol Cholelithogenesis in Female Mice. *Hepatology* 2020
 31. Vitellio P, Chira A, De Angelis M, Dumitrascu DL, Portincasa P. Probiotics in Psychosocial Stress and Anxiety. A Systematic Review. *Journal of Gastrointestinal and Liver Diseases* 2020;29:77-83
 32. Van Gorp H, Huang L, Saavedra P, Vuylsteke M, Asaoka T, Prencipe G, Insalaco A, Ogunjimi B, Jeyaratnam J, Cataldo I, Jacques P, Vermaelen K, Dullaers M, Joos R, Sabato V, Stella A, Frenkel J, De Benedetti F, Dehoorne J, Haerynck F, Calamita G, Portincasa P, Lamkanfi M. Blood-based test for diagnosis and functional subtyping of familial Mediterranean fever. *Ann Rheum Dis* 2020;79:960-968
 33. Vacca M, Celano G, Calabrese FM, Portincasa P, Gobbetti M, De Angelis M. The Controversial Role of Human Gut Lachnospiraceae. *Microorganisms* 2020;8
 34. Stella A, Lamkanfi M, Portincasa P. Familial Mediterranean Fever and COVID-19: Friends or Foes? *Frontiers in Immunology* 2020;11:2443
 35. Stachowska E, Portincasa P, Jamioł-Milc D, Maciejewska-Markiewicz D, Skonieczna-Żydecka K. The Relationship between Prebiotic Supplementation and Anthropometric and Biochemical Parameters in Patients with NAFLD—A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *Nutrients* 2020;12
 36. Smyk W, Janik MK, Portincasa P, Milkiewicz P, Lammert F, Krawczyk M. COVID-19: Focus on the lungs but do not forget the gastrointestinal tract. *Eur J Clin Invest* 2020;50:e13276

37. Shanmugam H, Molina Molina E, Di Palo DM, Faienza MF, Di Ciaula A, Garruti G, Wang DQH, Portincasa P. Physical Activity Modulating Lipid Metabolism in Gallbladder Diseases. *Journal of Gastrointestinal and Liver Diseases* 2020;29:99-110
38. Rodriguez A, Catalan V, Ramirez B, Unamuno X, Portincasa P, Gomez-Ambrosi J, Fruhbeck G, Becerril S. Impact of adipokines and myokines on fat browning. *J Physiol Biochem* 2020
39. Puculek M, Baj J, Portincasa P, Sitarz M, Grochowski C, Radzikowska E. The morphology and application of stem cells in digestive system surgery. *Folia Morphologica* 2020
40. Portincasa P, Krawczyk M, Smyk W, Lammert F, Di Ciaula A. COVID-19 and nonalcoholic fatty liver disease: two intersecting pandemics. *European Journal of Clinical Investigation* 2020;n/a:e13338
41. Portincasa P, Krawczyk M, Machill A, Lammert F, Ciaula AD. Hepatic consequences of COVID-19 infection. Lapping or biting? *European Journal of Internal Medicine* 2020
42. Portincasa P, Di Ciaula A, Garruti G, Vacca M, De Angelis M, Wang DQ. Bile Acids and GPBAR-1: Dynamic Interaction Involving Genes, Environment and Gut Microbiome. *Nutrients* 2020;12
43. Morandi A, Zambon A, Di Santo SG, Mazzone A, Cherubini A, Mossello E, Bo M, Marengoni A, Bellelli G, Italian Study Group on D. Understanding Factors Associated With Psychomotor Subtypes of Delirium in Older Inpatients With Dementia. *J Am Med Dir Assoc* 2020;21:486-492 e7
44. Loconsole D, Passerini F, Palmieri VO, Centrone F, Sallustio A, Pugliese S, Grimaldi LD, Portincasa P, Chironna M. Recurrence of COVID-19 after recovery: a case report from Italy. *Infection* 2020:1-3
45. Iannuzzi L, Salzo AE, Angarano G, Palmieri VO, Portincasa P, Saracino A, Gelardi M, Dibattista M, Quaranta N. Gaining back what is lost: recovering the sense of smell in mild to moderate patients after COVID-19. *Chem Senses* 2020
46. Gena P, Portincasa P, Matera S, Sonntag Y, Rutzler M, Calamita G. Stopped-flow Light Scattering Analysis of Red Blood Cell Glycerol Permeability. *Bio Protoc* 2020;10:e3723
47. Fruhbeck G, Fernandez-Quintana B, Paniagua M, Hernandez-Pardos AW, Valenti V, Moncada R, Catalan V, Becerril S, Gomez-Ambrosi J, Portincasa P, Silva C, Salvador J, Rodriguez A. FNDC4, a novel adipokine that reduces lipogenesis and promotes fat browning in human visceral adipocytes. *Metabolism* 2020;108:154261
48. Faienza MF, Corbo F, Carocci A, Catalano A, Clodoveo ML, Grano M, Wang DQH, D'Amato G, Muraglia M, Franchini C, Brunetti G, Portincasa P. Novel insights in health-promoting properties of sweet cherries. *Journal of Functional Foods* 2020;69
49. Faienza MF, Chiarito M, Molina-Molina E, Shanmugam H, Lammert F, Krawczyk M, D'Amato G, Portincasa P. Childhood obesity, cardiovascular and liver health: a growing epidemic with age. *World J Pediatr* 2020;16:438-445
50. Di Palo DM, Garruti G, Di Ciaula A, Molina-Molina E, Shanmugam H, De Angelis M, Portincasa P. Increased Colonic Permeability and Lifestyles as Contributing Factors to Obesity and Liver Steatosis. *Nutrients* 2020;12:E564
51. Di Ciaula A, Stella A, Bonfrate L, Wang DQH, Portincasa P. Gut Microbiota between Environment and Genetic Background in Familial Mediterranean Fever (FMF). *Genes (Basel)* 2020;11
52. Di Ciaula A, Portincasa P. The environment as a determinant of successful aging or frailty. *Mech Ageing Dev* 2020;188:111244
53. Di Ciaula A, Palmieri VO, Migliore G, Portincasa P, Group IMC. COVID-19, internists and resilience: the north-south Italy outbreak. *Eur J Clin Invest* 2020:e13299
54. Di Ciaula A, Baj J, Garruti G, Celano G, De Angelis M, Wang HH, Di Palo DM, Bonfrate L, Wang DQ, Portincasa P. Liver Steatosis, Gut-Liver Axis, Microbiome and Environmental Factors. A Never-Ending Bidirectional Cross-Talk. *J Clin Med* 2020;9:2648
55. Cerletti C, Colucci M, Storto M, Semeraro F, Ammollo CT, Incampo F, Costanzo S, De Bartolomeo G, Portincasa P, Barone M, Di Castelnuovo A, Semeraro N, Iacoviello L, de Gaetano G. Randomised trial of chronic supplementation with a nutraceutical mixture in subjects with non-alcoholic fatty liver disease. *Br J Nutr* 2020;123:190-197
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