

MAURO GIUFFRÈ

Medical Doctor (GI-Specialist), Biostatistician

DETAILS

Contact

Nationality

Italian

EMPLOYMENT HISTORY

Postdoctoral Associate, Yale School of Medicine, Department of Internal Medicine, New Haven

2023 – PRESENT

As a Postdoctoral Associate, I am currently applying machine learning techniques and synthetic data to develop a prognostic score classification system for patients with upper gastrointestinal bleeding. In addition, I am leading efforts to automate endoscopic image recognition for improved diagnostic accuracy and introduce the use of large language models in modern healthcare.

Clinical Fellow, Clinical Fellowship in Gastroenterology and Hepatology, Trieste

2019 – 2023

The fellowship aims to train a specialist Gastroenterologist proficient in theoretical and practical knowledge in the pathophysiology and therapy of diseases gastrointestinal tract and the liver, combining advanced clinical and research experience. Besides, the fellow is supposed to learn basic and advanced endoscopic procedures.

EDUCATION

PhD in Applied Data Science and Artificial Intelligence, University of Trieste, Trieste

NOVEMBER 2022 – PRESENT

International doctorate course, taught in English, and it is offered by the University of Trieste, with the collaboration of researchers from other research institutions within the broader the Trieste area, among which SISSA (International School for Advanced Studies), ICTP (International Centre for Theoretical Physics), INAF (Astrophysics observatory), and Area Science Park (technological park and tech transfer).

Master Degree in Biostatistics, University of Padova, Padova

OCTOBER 2018 – SEPTEMBER 2019

The master is oriented to provide technical and scientific training in biostatistics to health professionals to enhance knowledge in methodology in statistical data analysis and communication in scientific research. *Graduated with top marks.* Final thesis on the role of liver and spleen elastography as non-invasive predictor of clinically significant portal hypertension.

Medical Degree (MD), University of Trieste, Trieste

OCTOBER 2012 – JULY 2018

Graduated with magna cum laude.

Board Certification (Italian Medical License): February 2019.

The mission of the Degree Course is to train a doctor, who possesses a multidisciplinary and integrated vision of health and diseases, with an oriented education to the community, the prevention of diseases and the promotion of health, and to respond in an adequate way to the new demands and challenges of medical care.

Diploma, Scientific High School , Santa Teresa di Riva

OCTOBER 2007 – JULY 2012

Graduated with 100/100. Time abroad at Leicester College and CIE (College of International Education, Oxford). Regional winner for Chemistry Olympics Games and European Awardee for Environment/Pollution Essay.

INTERNSHIP HISTORY

Clinical Elective - Hepatopancreatobiliary Surgical Oncology , Memorial Sloan Kettering Cancer Center, New York City

OCTOBER 2017 – NOVEMBER 2017

Under supervision of Doctor William R. Jarnagin. Attended everyday lecture at Weill Cornell Medical University, clinical and hospital meetings. Involved in patients care at the HPB clinic and operating room.

AWARDS & RECOGNITIONS

Scholarships

Deserving Student Recipient for Ecomap Bursary. Classified within 10th position from 2014 to 2018.

Abstract Awards

The abstract with the title "Spleen and Liver Elastography as Non-Invasive Tool for Detection of" has been awarded as "Best Scientific Contribution in Liver Disease Section" at 25th Italian National Congress for Digestive Diseases.

Outstanding Reviewer Award 2021

Granted by the Journal of Personalized Medicine.

Letter of Appreciation

Letter of Appreciation from *Annals of Hepatology* about published papers that in just two years become some of the most cited in the journal.

EDITORIAL ACTIVITY

Guest Editor - Special Issue "Biomarkers in Hepatocellular Carcinoma"

Guest editor of the Special Issue entitled "Biomarkers in Hepatocellular Carcinoma" in the journal *Diagnostics*.

Guest Editor - Special Issue "The Gut-Liver-Brain Axis: From Head to Feet"

Guest editor of the Special Issue entitled "The Gut-Liver-Brain Axis: From Head to Feet" in the journal *International Journal of Molecular Sciences*.

Guest Editor - Special Issue "Gastrointestinal Cancers: Advances in Diagnostic, Prognostic, and Therapeutics"

Guest editor of the special issue entitled "Gastrointestinal Cancers: Advances in Diagnostic, Prognostic, and Therapeutics" in the journal *Cancers*.

Associate Editor - Healthcare Analytics

JULY 2023 – PRESENT

Junior Editor - Journal of Clinical and Translational Science

JULY 2023 – PRESENT

Reviewer Editor - Frontiers in Gastroenterology

AUGUST 2023 – PRESENT

PUBLICATION LIST

Giuffrè M, Macor D, Masutti F, Abazia C, Tinè F, Patti R, Buonocore MR, Colombo A, Visintin A, Campigotto M, Crocè LS. **Evaluation of spleen stiffness in healthy volunteers using point shear wave elastography.** Ann Hepatol. 2019 Sep-Oct;18(5):736-741. doi: 10.1016/j.aohep.2019.03.004. Epub 2019 Apr 25. PMID: 31054978.

Giuffrè M, Macor D, Masutti F, Abazia C, Tinè F, Bedogni G, Tiribelli C, Crocè LS. **Spleen Stiffness Probability Index (SSPI): A simple and accurate method to detect esophageal varices in patients with compensated liver cirrhosis.** Ann Hepatol. 2020 Jan-Feb;19(1):53-61. doi: 10.1016/j.aohep.2019.09.004. Epub 2019 Oct 23. PMID: 31740162.

Pascut D, Pratama MY, Gilardi F, **Giuffrè M**, Crocè LS, Tiribelli C. **Weighted miRNA co-expression networks analysis identifies circulating miRNA predicting overall survival in hepatocellular carcinoma patients.** Sci Rep. 2020 Nov 3;10(1):18967. doi: 10.1038/s41598-020-75945-2. PMID: 33144628; PMCID: PMC7609726.

Giuffrè M, Fouraki S, Comar M, Masutti F, Crocè LS. **The Importance of Transaminases Flare in Liver Elastography: Characterization of the Probability of Liver Fibrosis Overestimation by Hepatitis C Virus-Induced Cytolysis.** Microorganisms. 2020 Feb 29;8(3):348. doi: 10.3390/microorganisms8030348. PMID: 32121404; PMCID: PMC7142454.

Giuffrè M, Campigotto M, Campisciano G, Comar M, Crocè LS. **A story of liver and gut microbes: how does the intestinal flora affect liver disease? A review of the literature.** Am J Physiol Gastrointest Liver Physiol. 2020 May 1;318(5):G889-G906. doi: 10.1152/ajpgi.00161.2019. Epub 2020 Mar 9. PMID: 32146836.

Foschi FG, Domenicali M, Giacomoni P, Dall'Aglio AC, Conti F, Borghi A, Bevilacqua V, Napoli L, Mirici F, Cucchetti A, Ercolani G, Gardini AC, Bellentani S, Gastaldelli A, **Giuffrè M**, Tiribelli C, Bedogni G; Bagnacavallo Study Group. **Is there an association between commonly employed biomarkers of liver fibrosis and liver stiffness in the general population?** Ann Hepatol. 2020 Jul-Aug;19(4):380-387. doi: 10.1016/j.aohep.2020.04.003. Epub 2020 May 12. PMID: 32451205.

Giuffrè M, Martingano P, Crocè LS. **Spontaneous porto-femoral shunting in long-standing portal hypertension.** Clin Case Rep. 2020 May 25;8(9):1835-1836. doi: 10.1002/ccr3.2947. PMID: 32983509; PMCID: PMC7495742.

Sambataro G, **Giuffrè M**, Sambataro D, Palermo A, Vignigni G, Cesareo R, Crimi N, Torrisi SE, Vancheri C, Malatino L, Colaci M, Del Papa N, Pignataro F, Roman-Pognuz E, Fabbiani M, Montagnani F, Cassol C, Cavagna L, Zuccaro V, Zerbato V, Maurel C, Luzzati R, Di Bella S. **The Model for Early COvid-19 Recognition (MECOR) Score: A Proof-of-Concept for a Simple and Low-Cost Tool to Recognize a Possible Viral Etiology in Community-Acquired Pneumonia Patients during COVID-19 Outbreak.** Diagnostics (Basel). 2020 Aug 21;10(9):619. doi: 10.3390/diagnostics10090619. PMID: 32825763; PMCID: PMC7555441.

Giuffrè M, Di Bella S, Sambataro G, Zerbato V, Cavallaro M, Occhipinti AA, Palermo A, Crescenti A, Monica F, Luzzati R, Crocè LS. **COVID-19-Induced Thrombosis in Patients without Gastrointestinal Symptoms and Elevated Fecal Calprotectin: Hypothesis Regarding Mechanism of Intestinal Damage Associated with COVID-19.** Trop Med Infect Dis. 2020 Sep 16;5(3):147. doi: 10.3390/tropicalmed5030147. PMID: 32947803; PMCID: PMC7557761.

Giuffrè M, Giuricin M, Bonazza D, Rosso N, Giraudi PJ, Masutti F, Palmucci S, Basile A, Zanconati F, de Manzini N, Tiribelli C, Palmisano S, Crocè LS. **Optimization of Point-Shear Wave Elastography by Skin-to-Liver Distance to Assess Liver Fibrosis in Patients Undergoing Bariatric Surgery.** Diagnostics (Basel). 2020 Oct 7;10(10):795. doi: 10.3390/diagnostics10100795. PMID: 33036418; PMCID: PMC7601552.

Giuffrè M, Colecchia A, Crocè LS. **Elastography: where are we now?** Minerva Gastroenterol (Torino). 2021 Jun;67(2):109-111. doi: 10.23736/S2724-5985.20.02773-7. Epub 2020 Oct 26. PMID: 33103405.

Giuffrè M, Bedogni G, Abazia C, Masutti F, Tiribelli C, Crocè LS. **Spleen stiffness can be employed to assess the efficacy of spontaneous portosystemic shunts in relieving portal hypertension.** Ann Hepatol. 2020 Nov-Dec;19(6):691-693. doi: 10.1016/j.aohp.2020.07.004. Epub 2020 Aug 20. PMID: 32828852.

Giuffrè M, Moretti R, Campisciano G, da Silveira ABM, Monda VM, Comar M, Di Bella S, Antonello RM, Luzzati R, Crocè LS. **You Talking to Me? Says the Enteric Nervous System (ENS) to the Microbe. How Intestinal Microbes Interact with the ENS.** J Clin Med. 2020 Nov 18;9(11):3705. doi: 10.3390/jcm9113705. PMID: 33218203; PMCID: PMC7699249.

Giuffrè M, Campigotto M, Colombo A, Visintin A, Budel M, Aversano A, Navarra L, Piccin A, Cavalli CA, Sigon R, Balestra R, Tinè F, Abazia C, Masutti F, Crocè LS. **The role of elastography in alcoholic liver disease: fibrosis staging and confounding factors, a review of the current literature.** Minerva Gastroenterol (Torino). 2021 Jun;67(2):112-121. doi: 10.23736/S2724-5985.20.02777-4. Epub 2020 Nov 19. PMID: 33222430.

Giuffrè M, Bozzato AM, Di Bella S, Occhipinti AA, Martingano P, Cavallaro MFM, Luzzati R, Monica F, Cova MA, Crocè LS. **Spontaneous Rectal Perforation in a Patient with SARS-CoV-2 Infection.** J Pers Med. 2020 Oct 8;10(4):157. doi: 10.3390/jpm10040157. PMID: 33049924; PMCID: PMC7712943.

Campigotto M, **Giuffrè M**, Colombo A, Visintin A, Aversano A, Budel M, Masutti F, Abazia C, Crocè LS. **Comparison between hepatocellular carcinoma prognostic scores: A 10-year single-center experience and brief review of the current literature.** World J Hepatol. 2020 Dec 27;12(12):1239-1257. doi: 10.4254/wjh.v12.i12.1239. PMID: 33442451; PMCID: PMC7772726.

Cabas P, Di Bella S, **Giuffrè M**, Rizzo M, Trombetta C, Luzzati R, Antonello RM, Parenzan K, Liguori G. **Community pharmacists' exposure to COVID-19.** Res Social Adm Pharm. 2021 Jan;17(1):1882-1887. doi: 10.1016/j.sapharm.2020.05.020. Epub 2020 May 27. PMID: 32499159; PMCID: PMC7255346.

Palermo M, Tiralongo F, Distefano G, Vancheri A, **Giuffrè M**, Pino F, Foti PV, Sambataro G, Vancheri C, Palmucci S, Basile A. **Quantitative Evaluation of Fibrosis in IPF Patients: Meaning of Diffuse Pulmonary Ossification.** Diagnostics (Basel). 2021 Jan 12;11(1):113. doi: 10.3390/diagnostics11010113. PMID: 33445645; PMCID: PMC7828113.

Moretti R, **Giuffrè M**, Caruso P, Gazzin S, Tiribelli C. **Homocysteine in Neurology: A Possible Contributing Factor to Small Vessel Disease.** Int J Mol Sci. 2021 Feb 19;22(4):2051. doi: 10.3390/ijms22042051. PMID: 33669577; PMCID: PMC7922986.

- Giuffrè M**, Vetrugno L, Di Bella S, Moretti R, Berretti D, Crocè LS. **Calprotectin and SARS-CoV-2: A Brief-Report of the Current Literature.** *Healthcare (Basel)*. 2021 Jul 29;9(8):956. doi: 10.3390/healthcare9080956. PMID: 34442092; PMCID: PMC8392009.
- Gurian E, Di Silvestre A, Mitri E, Pascut D, Tiribelli C, **Giuffrè M**, Crocè LS, Sergo V, Bonifacio A. **Repeated double cross-validation applied to the PCA-LDA classification of SERS spectra: a case study with serum samples from hepatocellular carcinoma patients.** *Anal Bioanal Chem*. 2021 Feb;413(5):1303-1312. doi: 10.1007/s00216-020-03093-7. Epub 2020 Dec 8. PMID: 33294938; PMCID: PMC7892523.
- Cabas P, Rizzo M, **Giuffrè M**, Antonello RM, Trombetta C, Luzzati R, Liguori G, Di Bella S. **BCG infection (BCGitis) following intravesical instillation for bladder cancer and time interval between treatment and presentation: A systematic review.** *Urol Oncol*. 2021 Feb;39(2):85-92. doi: 10.1016/j.urolonc.2020.11.037. Epub 2020 Dec 8. PMID: 33308969.
- Giuffrè M**, Fouraki S, Campigotto M, Colombo A, Visintin A, Buonocore MR, Aversano A, Budel M, Tinè F, Abazia C, Masutti F, Crocè LS. **Alanine aminotransferase and spleno-portal dynamics affect spleen stiffness measured by point shear-wave elastography in patients with chronic hepatitis C in the absence of significant liver fibrosis.** *J Ultrasound*. 2021 Mar;24(1):67-73. doi: 10.1007/s40477-020-00456-9. Epub 2020 Apr 17. PMID: 32304009; PMCID: PMC7925748.
- Colombo A, **Giuffrè M**, Crocè LS, Venturini S, Sablich R. **Peritoneal Tuberculosis during Infliximab Treatment in a Patient with Ulcerative Colitis Despite a Negative Quantiferon Test.** *Pathogens*. 2021 Apr 29;10(5):535. doi: 10.3390/pathogens10050535. PMID: 33946817; PMCID: PMC8145928.
- Zerbato V, Di Bella S, **Giuffrè M**, Jaracz AW, Gobbo Y, Luppino D, Macor P, Segat L, Koncan R, D'Agaro P, Valentini M, Crocè LS, Ruscio M, Luzzati R. **High fecal calprotectin levels are associated with SARS-CoV-2 intestinal shedding in COVID-19 patients: A proof-of-concept study.** *World J Gastroenterol*. 2021 Jun 14;27(22):3130-3137. doi: 10.3748/wjg.v27.i22.3130. PMID: 34168414; PMCID: PMC8192288.
- Moretti R, Caruso P, **Giuffrè M**, Tiribelli C. **COVID-19 Lockdown Effect on Not Institutionalized Patients with Dementia and Caregivers.** *Healthcare (Basel)*. 2021 Jul 15;9(7):893. doi: 10.3390/healthcare9070893. PMID: 34356269; PMCID: PMC8303803.
- Zerbato V, Bozzato AM, Di Bella S, **Giuffrè M**, Martingano P, Di Giusto A, Battisti S, Cova MA, Luzzati R, Cavallaro MFM. **Spontaneous psoas haematoma: a life-threatening complication of anticoagulation in COVID-19. A case series of four episodes.** *Infect Dis (Lond)*. 2021 Sep;53(9):724-729. doi: 10.1080/23744235.2021.1918347. Epub 2021 May 3. PMID: 33939587.
- Costantino A, Bortoluzzi F, **Giuffrè M**, Vassallo R, Montalbano LM, Monica F, Canova D, Checchin D, Fedeli P, Marmo R, Elli L. **Correct use of telemedicine in gastroenterology, hepatology, and endoscopy during and after the COVID-19 pandemic: Recommendations from the Italian association of hospital gastroenterologists and endoscopists (AIGO).** *Dig Liver Dis*. 2021 Oct;53(10):1221-1227. doi: 10.1016/j.dld.2021.06.032. Epub 2021 Jul 24. PMID: 34312103.
- Moretti R, **Giuffrè M**, Merli N, Caruso P, Di Bella S, Tiribelli C, Crocè LS. **Hepatitis C Virus-Related Central and Peripheral Nervous System Disorders.** *Brain Sci*. 2021 Nov 27;11(12):1569. doi: 10.3390/brainsci11121569. PMID: 34942871; PMCID: PMC8699483.
- Zoratti C, Moretti R, Rebuzzi L, Albergati IV, Di Somma A, Decorti G, Di Bella S, Crocè LS, **Giuffrè M**. **Antibiotics and Liver Cirrhosis: What the Physicians Need to Know.** *Antibiotics (Basel)*. 2021 Dec 28;11(1):31. doi: 10.3390/antibiotics11010031. PMID: 35052907; PMCID: PMC8772826.

Giuffrè M, Masutti F, Maria Crosato I, Luzzati R, Saveria Crocè L. **Behind the Decrease of Liver Stiffness After Successful Hepatitis C Virus Eradication with Direct-Acting Antiviral Agents.** *Turk J Gastroenterol.* 2022 Feb;33(2):169-170. doi: 10.5152/tjg.2021.20736. PMID: 35238783.

Di Bella S, Luzzati R, Principe L, Zerbato V, Meroni E, **Giuffrè M**, Crocè LS, Merlo M, Perotto M, Dolso E, Maurel C, Lovecchio A, Dal Bo E, Lagatolla C, Marini B, Ippodrino R, Sanson G. **Aspirin and Infection: A Narrative Review.** *Biomedicines.* 2022 Jan 25;10(2):263. doi: 10.3390/biomedicines10020263. PMID: 35203473; PMCID: PMC8868581.

Bozzato AM, Martingano P, Pozzi Mucelli RA, Cavallaro MFM, Cesarotto M, Marcello C, Tiribelli C, Pascut D, Pizzolato R, Pozzi Mucelli F, **Giuffrè M**, Crocè LS, Cova MA. **MicroRNAs Related to TACE Treatment Response: A Review of the Literature from a Radiological Point of View.** *Diagnostics (Basel).* 2022 Feb 1;12(2):374. doi: 10.3390/diagnostics12020374. PMID: 35204465; PMCID: PMC8871153.

Moretti R, **Giuffrè M**, Crocè LS, Gazzin S, Tiribelli C. **Nonalcoholic Fatty Liver Disease and Altered Neuropsychological Functions in Patients with Subcortical Vascular Dementia.** *J Pers Med.* 2022 Jul 5;12(7):1106. doi: 10.3390/jpm12071106. PMID: 35887603; PMCID: PMC9323787.

Giuffrè M, Zuliani E, Visintin A, Tarchi P, Martingano P, Pizzolato R, Bonazza D, Masutti F, Moretti R, Crocè LS; Liver Multidisciplinary Group of Trieste. **Predictors of Hepatocellular Carcinoma Early Recurrence in Patients Treated with Surgical Resection or Ablation Treatment: A Single-Center Experience.** *Diagnostics (Basel).* 2022 Oct 17;12(10):2517. doi: 10.3390/diagnostics12102517. PMID: 36292205; PMCID: PMC9600725.

Giuffrè M, Budel M, Martingano P, Crocè LS. **Incisional hernia by liver cysts.** *Clin Case Rep.* 2022 Nov 10;10(11):e6491. doi: 10.1002/ccr3.6491. PMID: 36381054; PMCID: PMC9647334.

Giuffrè M, Gazzin S, Zoratti C, Llido JP, Lanza G, Tiribelli C, Moretti R. **Celiac Disease and Neurological Manifestations: From Gluten to Neuroinflammation.** *International Journal of Molecular Sciences.* 2022; 23(24):15564. <https://doi.org/10.3390/ijms232415564>

Fusaro L, Di Bella S, Martingano P, Crocè LS, **Giuffrè M**. Pylephlebitis: A Systematic Review on Etiology, Diagnosis, and Treatment of Infective Portal Vein Thrombosis. *Diagnostics (Basel).* 2023 Jan 25;13(3):429. doi: 10.3390/diagnostics13030429. PMID: 36766534; PMCID: PMC9914785.

Piccin, A.; Gulotta, M.; di Bella, S.; Martingano, P.; Crocè, L.S.; **Giuffrè, M.** Diverticular Disease and Rifaximin: An Evidence-Based Review. *Antibiotics* 2023, 12, 443.

Giuffrè, M.; Moretti, R.; Tiribelli, C. Gut Microbes Meet Machine Learning: The Next Step towards Advancing Our Understanding of the Gut Microbiome in Health and Disease. *Int. J. Mol. Sci.* 2023, 24, 5229.

Llido, J.P.; Fioriti, E.; Pascut, D.; **Giuffrè, M.**; Bottin, C.; Zanconati, F.; Tiribelli, C.; Gazzin, S. Bilirubin-Induced Transcriptomic Imprinting in Neonatal Hyperbilirubinemia. *Biology* 2023, 12, 834. <https://doi.org/10.3390/biology12060834>

Kresevic, S.; Ajcevic M.; **Giuffrè, M.**; Pupa, P; Crocè, LS; Accardo, A.

Semi-automatic Approach to Estimate the Degree of Non-alcoholic Fatty Liver Disease (NAFLD) from Ultrasound Images. *IFMBE Proceedings (IFMBE, volume 89)*

Giuffrè, M.; Shung, D.L. Harnessing the power of synthetic data in healthcare: innovation, application, and privacy. *npj Digit. Med.* 6, 186 (2023). <https://doi.org/10.1038/s41746-023-00927-3>

Giuffrè, M., You, K., Shung, D. Evaluating ChatGPT in Medical Contexts: The Imperative to Guard Against Hallucinations and Partial Accuracies. *Clin Gastroenterol Hepatol.* 2023 Oct 18;S1542-3565(23)00835-2. doi: 10.1016/j.cgh.2023.09.035.

Giuffrè, M.; Moretti, R. The Gut-Liver-Brain Axis: From the Head to the Feet. *Int. J. Mol. Sci.* 2023, 24, 15662. <https://doi.org/10.3390/ijms242115662>

ABSTRACTS & ORAL PRESENTATIONS

Abstract Title - Conference

The role of liver and spleen elastography in the screening of esophageal varices in patients with liver cirrhosis: do we really need endoscopy - *The AASLD Liver Meeting 2018*

Can we revise Baveno VI criteria using spleen elastography? - *Annual AISF Meeting (2019)*

Spleen and liver elastography as a non-invasive tool for detection of esophageal varices in patients with liver cirrhosis - *Annual FISMAD Meeting (2019)*

Is spleen stiffness the new frontier for non-invasive assessment of portal hypertension? - *The International Liver Congress (EASL) 2019*

How does Trieste treat HCV in PWID? An effective coordination between addiction treatment service (SerD), the infective disease department and the liver clinic - *Communication and Cooperation: Clinical Networks in Hepatology, AISF Monothematic Conference (2019)*

Spleen Elastography as a non-invasive tool for detection of esophageal varices in patients with compensated liver cirrhosis - *The AASLD Liver Meeting 2019*

Spleen Stiffness/Platelets-Based Models Can Predict Presence of Esophageal Varices in Patients With Compensated Liver Cirrhosis - *Annual AISF Meeting (2020)*

The importance of medical specialists and services coordination to effectively treat hepatitis C infection in patients who inject drugs: the Trieste model of care - *The International Liver Congress (EASL) 2020*

Spleen stiffness-based models can predict presence of esophageal varices in patients with compensated liver cirrhosis stratified by liver disease etiology - *The International Liver Congress (EASL) 2020*

Time to complication of genito-urinary bcgitis after BCG endovesical treatment - *European Urology Conference 2020*

Spleen and liver stiffness-based models can predict presence of esophageal varices in patients with compensated liver cirrhosis - *Annual FISMAD Meeting (2020)*

Low muscle mass and sarcopenia in cirrhosis: prevalence of low phase angle and associations with nutritional variables - *Annual Congress of the Italian Society of Artificial Nutrition and Metabolism (2020)*

Hepatocellular carcinoma prognostic scores: A 10 years experience - *Annual AISF Meeting (2021)*

Performance of spleen stiffness measured by point-shear wave elastography in esophageal varices screening - *The International Liver Congress (EASL) 2022*

Impact of Endoscopic Band Ligation on Bleeding Incidence in Patients with Chronic Liver Disease and High-Risk Varices - *Annual AISF Meeting (2023)*

The role of EUS in evaluating pancreatic NET epidemiologic trends: a single center experience - ESGE Days 2023

Assessing the feasibility of AI-based Hamaguchi Score Estimation for NAFLD diagnosis using ultrasound Images - *The International Liver Congress (EASL) 2023*

Oral Presentation Title - *Conference*

Can AI discriminate between NAFL and NASH? - AISF: "Artificial Intelligence and liver diseases", 13-14 October 2022, Rome (Italy)

A particular case of abdominal pain - "Tri-regional FISMAD Update", 16 December 2022, Venice (Italy)

Yale Seminars on Artificial Intelligence in Gastroenterology and Hepatology - 20-22 May 2023, New Haven (USA)

Predicting Early Recurrence in Hepatocellular Carcinoma: Leveraging Machine Learning for Enhanced Prognosis and Personalized Treatment - AISF: "Liver oncology: from basic science to liver transplantation" - 28-29 September 2023, Padova (Italy)

Ruolo dei "large language models" in Gastroenterologia ed Epatologia - 29 September 2023, Trieste (Italy)

REVIEWER ACTIVITY

Reviewed approximately 100 manuscripts in peer-reviewed journals (e.g., Journal of Clinical Medicine, Life, Microorganisms, International Journal of Molecular Sciences, Diagnostics, Biology, Healthcare, Bioengineering, International Journal of Environmental Research and Public Health, Journal of Personalized Medicine, Pathogens, Cancers, Genes, Applied Sciences, Antibiotics, Medicina) from 2020 to 2023.

THESIS AND STUDENT'S MENTORSHIP

"Application of esophageal varices protocol to patients affected by liver cirrhosis as primary prophylaxis in clinically significant portal hypertension".

Academic Year 2019/2020 at the Department of Medical, Health, and Surgical Sciences (University of Trieste).

Student name: *Marco Balducci.*

Role: *Co-supervisor.*

"Comparison between biopsy and liver elastography for the evaluation of non-alcoholic fatty liver and non-alcoholic steatohepatitis in bariatric patients: the impact of the skin-to-liver distance".

Academic Year 2019/2020 at the Department of Medical, Health, and Surgical Sciences (University of Trieste).

Student name: *Francesca Dottor.*

Role: *Co-supervisor.*

"Hepatocellular carcinoma and neo-angiogenesis inhibitor: analysis on efficacy and imaging correlation".

Academic Year 2019/2020 at the Department of Medical, Health, and Surgical Sciences (University of Trieste).

Student name: *Stephanie Pivetta .*

Role: *Co-supervisor.*

"Virological and clinical outcomes of direct antiviral agents (DAA) treatment in patients with Hepatitis C Virus (HCV) infection".

Academic Year 2019/2020 at the Department of Medical, Health, and Surgical Sciences (University of Trieste).

Student name: Laura Brunetta.

Role: *Co-supervisor.*

"Treatment of patients with decompensated liver cirrhosis and refractory ascites: the experience of Trieste University Hospital from 2015 to 2020".

Academic Year 2020/2021 at the Department of Medical, Health, and Surgical Sciences (University of Trieste).

Student name: Serena Fichera.

Role: *Co-supervisor.*

"Prevalence of bacterial population in biological samples (blood, stool, ascites) of patients with liver cirrhosis: a pilot study".

Academic Year 2020/2021 at the Department of Medical, Health, and Surgical Sciences (University of Trieste).

Student name: Alberto Comuzzi.

Role: *Co-supervisor.*

"Application of liver and spleen elastography as a non-invasive predictors of esophageal varices in patients with clinically significant portal hypertension".

Academic Year 2020/2021 at the Department of Medical, Health, and Surgical Sciences (University of Trieste).

Student name: Irene Chiari.

Role: *Co-supervisor.*

"Development of machine learning models for standardization of Hamaguchi Score via automated analysis of liver ultrasound images".

Academic Year 2021/2022 at the Department of Medical, Health, and Surgical Sciences (University of Trieste).

Student name: Margherita Granziera.

Role: *Co-supervisor.*

"Disease progression after curative treatment in BCLC stage 0 and A HCC patients: single center experience and future perspective".

Academic Year 2021/2022 at the Department of Medical, Health, and Surgical Sciences (University of Trieste).

Student name: Enrico Zuliani.

Role: *Co-supervisor.*

New Haven, Connecticut (USA)
8 Novembre 2023

Mauro Giuffrè