Curriculum Vitae

Photo	Name (First Name / Middle Name / Last Name)	**Marietta Iacucci MD,PhD,FASGE,AGAF**
	Title (Prof. Dr., etc.)	Professor in Gastroenterology
	Affiliation	**University College Cork, Ireland**
	Country	Ireland
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Educational Background

Prof Iacucci qualified in medicine at the University of Rome and obtained her PhD in 2009. She trained and did research in Germany, the United Kingdom, and Japan

Professional Career

Professor Iacucci held permanent faculty positions at the Universities of Calgary, Canada and Birmingham, UK. She was a key investigator at the National Institute of Health Research in Birmingham. She led transdisciplinary work that predicted disease courses and outcomes in colonic neoplasia and inflammatory bowel disease, bridging engineering, bioinformatics, and imaging/omics. She has been nominated for leadership positions in multiple international organizations. She is a fellow of the American Society of Gastrointestinal Endoscopy. American Gastroenterological Association Fellow, a member of e-Learning Taskforce and research officer of Governing Board of the European Crohn's and Colitis Organisation (ECCO), member of the International Inflammatory Bowel Disease Organisation (IOIBD), member of the Global Interventional Inflammatory Bowel Disease Group, sits on the ESGE advanced imaging in colorectal neoplasia guidelines committee and IBD quality improvement committee working group. She has delivered key plenary talks at prestigious international conferences such as the American Gastroenterology Association/ American Society of Gastrointestinal Endoscopy, International Organisation for Study of IBD, European Crohn's and Colitis Organization and European Society of Gastrointestinal Endoscopy.

Research Field

Prof Marietta Iacucci is a leading researcher in AI and a pioneer in 'Endo-Histo-Barrier -Omics', which fuses endoscopic and histologic information with 'multi-omics data' in Inflammatory Bowel Disease. Her goal is to drive transdisciplinary precision medicine research in IBD and colon cancer.

Main Scientific Publications

1. Marietta Iacucci, Giovanni Santacroce, Yasuharu Maeda, Subrata Ghosh,
   AI-driven Personalized Medicine: Transforming Clinical Practice in Inflammatory Bowel Disease,
   Gastroenterology,2025, (epub ahead)

2. Iacucci M, Maeda Y, Santacroce G, Ghosh S. AI-enabled 'endo-histo-omics': breaking down intestinal barriers in IBD. Nat Rev Gastroenterol Hepatol. 2025 Mar 3. doi: 10.1038/s41575-025-01051-1. Epub ahead of print.

3. Majumder S, Santacroce G, Maeda Y, Zammarchi I, Puga-Tejada M,Ditonno I,Hayes B, Crotty R, Fennell E, Shivaji UN, Abdawn Z, Hejmadi R,Parigi TL,Nardone OM, Murray P, Burke L, Ghosh S, **Iacucci M**. *Endocytoscopy with automated multispectral intestinal barrier pathology imaging for assessment of deep healing to predict outcomes in ulcerative colitis.* Gut. 2024;73:1603-1606.

4. Kuroki T, MaedaY, Kudo S,Ogata N,**Iacucci M**, Takishima K,Ide Y,Shibuya T,Semba S, Kawashima J,Kato S, Ogawa Y,Ichimasa K,Nakamura H, Hayashi T, Wakamura K,Miyachi H,Baba T, Nemoto T,Ohtsuka K, Misawa M .*A novel artificial intelligence -assisted "vascular -healing "diagnosis for prediction of future clinical relapse in patients with Ulcerative Colitis: a prospective cohort study* .Gastrointest Endosc 2024 {Epub ahead}

5. Ogata N, Maeda Y, Misawa M, Takenaka K, Takabayashi K, **Iacucci M**, et al *Artificial intelligence-assisted video colonoscopy for disease monitoring of ulcerative colitis: A prospective study.* J Crohns Colitis. 2025 Jan 11;19(1) {Epub ahead}

6. Ohara J, Maeda Y, Ogata N, Kuroki T, Misawa M, Kudo S, Nemoto T, Yamochi T, **Iacucci M.**
   Automated Neutrophil Quantification and Histological Score Estimation in Ulcerative Colitis. Clin Gastroenterol Hepatol 2024 {Epub ahead print)

7. Kuroki T, Maeda Y, Kudo SE, Ogata N, **Iacucci M**, Takishima K, Ide Y, Shibuya T, Semba S, Kawashima J, Kato S, Ogawa Y, Ichimasa K, Nakamura H, Hayashi T, Wakamura K, Miyachi H, Baba T, Nemoto T, Ohtsuka K, Misawa M.*A novel artificial intelligence-assisted "vascular healing" diagnosis for prediction of future clinical relapse in patients with Ulcerative colitis:a prospective cohort study (with video).*Gastrointest Endosc2024:1:97-108

8. **Iacucci M**, Santacroce G, Zammarchi I, Maeda Y, Del Amor R, Meseguer P, Kolawole BB, Chaudhari U, Di Sabatino A, Danese S, Mori Y, Grisan E, Naranjo V, Ghosh S. *Artificial intelligence and endo-histo-omics: new dimensions of precision endoscopy and histology in inflammatory bowel disease.* Lancet Gastroenterol Hepatol. 2024 Aug;9(8):758-772.

9. **Iacucci M,** Parigi TL, Del Amor R, Meseguer P, Mandelli G, Bozzola A, Bazarova A, Bhandari P, Bisschops R, Danese S, De Hertogh G, Ferraz JG, Goetz M, Grisan E, Gui X, Hayee B, Kiesslich R, Lazarev M, Panaccione R, Parra-Blanco A, Pastorelli L, Rath T, Røyset ES, Tontini GE, Vieth M, Zardo D, Ghosh S, Naranjo V, Villanacci V. *Artificial Intelligence Enabled Histological Prediction of Remission or Activity and Clinical Outcomes in Ulcerative Colitis. Gastroenterology 2023; 7:1180-1188*

10. **Iacucci M,** Cannatelli R, Parigi TP, Nardone OM, Tontini GE, Labarile N, Buda A, Rimondi A, Bazarova A, Bisschops R, del Amor R, Meseguer P, Naranjo V,   PICaSSO Group[†], Ghosh S, Grisan E *A Virtual Chromoendoscopy Artificial Intelligence system to detect endoscopic and histologic activity/remission and predict clinical outcomes in Ulcerative Colitis.* Endoscopy 2023; 4:332-341

11. Byrne MF, Panaccione R, East JE, **Iacucci M**, Parsa N, Kalapala R, Reddy DN, Ramesh Rughwani H, Singh AP, Berry SK, Monsurate R, Soudan F, Laage G, Cremonese ED, St-Denis L, Lemaître P, Nikfal S, Asselin J, Henkel ML, Travis SP.*Application of Deep Learning Models to Improve Ulcerative Colitis Endoscopic Disease Activity Scoring Under Multiple Scoring Systems*. J Crohns Colitis 2023; 17:463-471

12. **Iacucci M**, Jeffery L, Acharjee A, Grisan E, Buda A, Nardone OM, Smith SCL, Labarile N , Zardo D , Ungar B , Hunter S , Mao R, Cannatelli R, Shivaji U, Parigi TL, Reynolds GM , Gkoutos GV, Ghosh S *Computer-aided imaging analysis of Probe-Based Confocal Laser Endomicroscopy with molecular labelling and gene expression predicts response to biological therapy in IBD patients: "The End-Omics study***"** Inflamm Bowel Dis. 2022 {Epub print ahead}

13. Gui XG, Villanacci V, Bazarova A, del Amor R, Vieth M, De Hertogh G, Zardo D, Parigi TL, Røyset E, Shivaji U, Monica M, Mandelli G, Bhandari P, Danese S, Ferraz J, Goetz M, Hayee B, Lazarev, Parra-Blanco A, Pastorelli L, Panaccione R, Rath T, Tontini GE, Kiesslich R, Bisschops R, Grisan E, Naranjo V, **Iacucci M.** *PICaSSO Histologic Remission Index (PHRI) in Ulcerative Colitis – Development of a Novel Simplified Histological Score for Monitoring Mucosal Healing and Predicting Clinical Outcomes and its Applicability in an Artificial Intelligence System.* Gut. 2022; 5:889-898.