

Curriculum vitae of Dr. Paola Mattiolo

Name and Surname: Paola Mattiolo

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DOB: 09/10/1993

Educational qualification and positions:

2012: High school – scientific graduation, Este (Padua), Italy

2019: Medicine and Surgery Degree, MD qualification, University of Padua, Padua, Italy

2023: Surgical Pathology Degree, University of Verona, Verona, Italy

2023 (12/01/2023-02/28/2025): Research Fellow at University of Verona, Verona, Italy

2024 (02/01/2024-04/30/2024): Clinical and Research Fellow at Heinrich-Heine-Universität und Universitätsklinikum Düsseldorf (Heinrich Heine University and University Hospital of Düsseldorf) Düsseldorf, Nordrhein-Westfalen, Germany

2024 (05/06/2024-07/26/2024): Observership at Mayo Clinic, Rochester (MN), United States of America

2024 (ongoing): PhD Candidate, PhD School University of Verona, Course of Inflammation, Immunity, and Cancer.

2024 (03/01/2025-ongoing): Assistant Professor of Pathology, Department of Diagnostics and Public Health, Section of Pathology, University of Verona, Italy

Main research fields and diagnostic activities:

Surgical Pathology, Histopathological diagnosis of gastrointestinal and pancreatic tumors, immunohistochemistry, Molecular pathology.

Scientific Publications:

Scientific articles as first name author (*=co-first author):

1. **Mattiolo P**, Hong SM, Paolino G, Rusev BC, Marchegiani G, Salvia R, Andrianello S, Capelli P, Piccoli P, Parolini C, Scarpa A, Lawlor RT, Luchini C. CD117 Is a Specific Marker of Intraductal Papillary Mucinous Neoplasms (IPMN) of the Pancreas, Oncocytic Subtype. *Int J Mol Sci*. 2020 Aug 12;21(16):5794. doi: 10.3390/ijms21165794. PMID: 32806726; PMCID: PMC7461050.
2. **Mattiolo P**, Fiadone G, Paolino G, Chatterjee D, Bernasconi R, Piccoli P, Parolini C, El Aidi M, Sperandio N, Malleo G, Salvia R, Brosens LA, Wood LD, Scarpa A, Lawlor RT, Luchini C. Epithelial-mesenchymal transition in undifferentiated carcinoma of the pancreas with and without osteoclast-like giant cells. *Virchows Arch*. 2021 Feb;478(2):319-326. doi: 10.1007/s00428-020-02889-3. Epub 2020 Jul 13. PMID: 32661742; PMCID: PMC7969490.
3. Munari G*, Businello G*, **Mattiolo P***, Pennelli G, Sbaraglia M, Borga C, Pucciarelli S, Spolverato G, Mescoli C, Galuppini F, Sommariva A, Bellan E, Lonardi S, Loupakis F, Luchini C, Dei Tos AP, Fassan M. Molecular profiling of appendiceal serrated lesions, polyps and mucinous neoplasms: a single-centre experience. *J Cancer Res Clin Oncol*. 2021 Mar 12. doi: 10.1007/s00432-021-03589-4. PMID: 33712927.

4. Lawlor RT*, **Mattiolo P***, Mafficini A, Hong SM, Piredda ML, Taormina SV, Malleo G, Marchegiani G, Pea A, Salvia R, Kryklyva V, Shin JI, Brosens LA, Milella M, Scarpa A, Luchini C. Tumor Mutational Burden as a Potential Biomarker for Immunotherapy in Pancreatic Cancer: Systematic Review and Still-Open Questions. *Cancers (Basel)*. 2021 Jun 22;13(13):3119. doi: 10.3390/cancers13133119. PMID: 34206554; PMCID: PMC8269341.
5. **Mattiolo P**, Kryklyva V, Brosens LA, Mafficini A, Lawlor RT, Milella M, Scarpa A, Corbo V, Luchini C. Refining targeted therapeutic approaches in pancreatic cancer: from histology and molecular pathology to the clinic. *Expert Opin Ther Targets*. 2022 Jan;26(1):1-4. doi: 10.1080/14728222.2022.2021397. Epub 2021 Dec 30. PMID: 34936525. (Editorial)
6. **Mattiolo P**, Mafficini A, Lawlor RT, Marchegiani G, Malleo G, Pea A, Salvia R, Piccoli P, Sciammarella C, Santonicco N, Parisi A, Silvestris N, Milella M, Adsay V, Scarpa A, Luchini C. "Pure" hepatoid tumors of the pancreas harboring CTNNB1 somatic mutations: a new entity among solid pseudopapillary neoplasms. *Virchows Arch*. 2022 Mar 31. doi: 10.1007/s00428-022-03317-4. PMID: 35359182.
7. **Mattiolo P**, Scarpa A, Luchini C. Hepatoid tumors of the gastrointestinal / pancreatobiliary district: morphology, immunohistochemistry and molecular profiles. *Hum Pathol*. 2022 Jun 14:S0046-8177(22)00156-3. doi: 10.1016/j.humpath.2022.06.011. PMID: 35714834.
8. **Mattiolo P**, Gkoutakos A, Centonze G, Bevere M, Piccoli P, Ammendola S, Pedrazzani C, Landoni L, Cingarlini S, Milella M, Milione M, Luchini C, Scarpa A, Simbolo M. Transcriptome analysis of primary sporadic neuroendocrine tumours of the intestine identified three different molecular subgroups. *Pathol Res Pract*. 2023 Aug;248:154674. doi: 10.1016/j.prp.2023.154674. Epub 2023 Jul 7. PMID: 37454491.
9. **Mattiolo P**, Wang H, Basturk O, Brosens LAA, Hong SM, Adsay V, Scarpa A, Luchini C. Comprehensive characterisation of acinar cystic transformation of the pancreas: a systematic review. *J Clin Pathol*. 2023 Aug 29:jcp-2023-209103. doi: 10.1136/jcp-2023-209103. PMID: 37643836.
10. **Mattiolo P***, De Bellis M*, Mafficini A, Fassan M, Bevere M, Ciulla C, Bersani S, Lawlor RT, Milella M, Scarpa A, Luchini C, Ruzzenente A. Long-Term Survivor of Intrahepatic Cholangiocarcinoma for over 18 Years: Case Study with Longitudinal Histo-molecular and Tumor Immune Microenvironment Characterization and Systematic Review of the Literature. *J Gastrointest Cancer*. 2024 Sep 16. doi: 10.1007/s12029-024-01113-8. PMID: 39283582.
11. **Mattiolo P**, Bevere M, Mafficini A, Verschuur AVD, Calicchia M, Hackeng WM, Simbolo M, Paiella S, Dreijerink KMA, Landoni L, Pedron S, Cingarlini S, Salvia R, Milella M, Lawlor RT, Valk GD, Vriens MR, Scarpa A, Brosens LA, Luchini C. Glucagon-Producing Pancreatic Neuroendocrine Tumors (Glucagonomas) are Enriched in Aggressive Neoplasms with ARX and PDX1 Co-expression, DAXX/ATRX Mutations, and ALT (Alternative Lengthening of Telomeres). *Endocr Pathol*. 2024 Sep 27. doi: 10.1007/s12022-024-09826-z. PMID: 39331358.
12. Lionetto G*, **Mattiolo P***, Ciulla C, Savegnago G, Casciani F, De Pastena M, Paiella S, Pea A, Esposito A, Crovetto A, Donadelli M, Franzina C, Fassan M, Scarpa A, Salvia R, Malleo G, Luchini C. Morphologic characterization of pancreatic ductal adenocarcinoma following post-neoadjuvant pancreatectomy and clinical value of intratumor heterogeneity. *Ann Surg [In Press]*
13. **Mattiolo P**. Practical hints for the diagnosis of mixed neuroendocrine-non-neuroendocrine neoplasms of the digestive system. *World J Gastrointest Oncol*. 2024 Nov 15;16(11):4326-4332. doi: 10.4251/wjgo.v16.i11.4326. PMID: 39554731; PMCID: PMC11551634. (Editorial)
14. **Mattiolo P**, Zen Y, Zhang X, Scarpa A, Luchini C, Graham RP. Biliary adenofibroma and cholangiocarcinoma: neighbors or relatives? A systematic and critical review. *Hum Pathol*. 2025 Jul 12:105872. doi: 10.1016/j.humpath.2025.105872. Epub ahead of print. PMID: 40659165.

Other published scientific articles:

15. Luchini C, Grillo F, Fassan M, Vanoli A, Capelli P, Paolino G, Ingravallo G, Renzulli G, Doglioni C, D'Amuri A, **Mattiolo P**, Pecori S, Parente P, Florena AM, Zamboni G, Scarpa A. Malignant epithelial/exocrine tumors of the pancreas. *Pathologica*. 2020 Sep;112(3):210-226. doi: 10.32074/1591-951X-167. PMID: 33179623.
16. Luchini C, Paolino G, **Mattiolo P**, Piredda ML, Cavaliere A, Gaule M, Melisi D, Salvia R, Malleo G, Shin JI, Cargnin S, Terrazzino S, Lawlor RT, Milella M, Scarpa A. KRAS wild-type pancreatic ductal adenocarcinoma: molecular pathology and therapeutic opportunities. *J Exp Clin Cancer Res*. 2020 Oct 28;39(1):227. doi: 10.1186/s13046-020-01732-6. PMID: 33115526; PMCID: PMC7594413.
17. Bazzichetto C, Luchini C, Conciatori F, Vaccaro V, Di Cello I, **Mattiolo P**, Falcone I, Ferretti G, Scarpa A, Cognetti F, Milella M. Morphologic and Molecular Landscape of Pancreatic Cancer Variants as the Basis of New Therapeutic Strategies for Precision Oncology. *Int J Mol Sci*. 2020 Nov 22;21(22):8841. doi: 10.3390/ijms21228841. PMID: 33266496; PMCID: PMC7700259.
18. Luchini C, Pelosi G, Scarpa A, **Mattiolo P**, Marchiori D, Maragliano R, Sessa F, Uccella S. Neuroendocrine neoplasms of the biliary tree, liver and pancreas: a pathological approach. *Pathologica*. 2021 Feb;113(1):28-38. doi: 10.32074/1591-951X-231. PMID: 33686308.
19. Piredda ML, Ammendola S, Sciammarella C, Turri G, Bagante F, Fassan M, Mafficini A, Mombello A, Cataldi S, Paolino G, **Mattiolo P**, Florena AM, Genna M, Fior F, Cheng L, Lawlor RT, Scarpa A, Pedrazzani C, Luchini C. Colorectal cancer with microsatellite instability: Right-sided location and signet ring cell histology are associated with nodal metastases, and extranodal extension influences disease-free survival. *Pathol Res Pract*. 2021 Jun 8;224:153519. doi: 10.1016/j.prp.2021.153519. Epub 2021 Jun 8. PMID: 34119815.
20. Luchini C, Lawlor RT, Bersani S, Vicentini C, Paolino G, **Mattiolo P**, Pea A, Cingarlini S, Milella M, Scarpa A. Alternative Lengthening of Telomeres (ALT) in Pancreatic Neuroendocrine Tumors: Ready for Prime-Time in Clinical Practice? *Curr Oncol Rep*. 2021 Jul 16;23(9):106. doi: 10.1007/s11912-021-01096-w. PMID: 34269919.
21. Sciammarella C, Bencivenga M, Mafficini A, Piredda ML, Tsvetkova V, Paolino G, Mastrosimini MG, Hetoja S, de Manzoni G, **Mattiolo P**, Borga C, Fassan M, Scarpa A, Luchini C, Lawlor RT. Molecular Analysis of an Intestinal Neuroendocrine/Non-neuroendocrine Neoplasm (MiNEN) Reveals MLH1 Methylation-driven Microsatellite Instability and a Monoclonal Origin: Diagnostic and Clinical Implications. *Appl Immunohistochem Mol Morphol*. 2022 Feb 1;30(2):145-152. doi: 10.1097/PAI.0000000000000969. PMID: 34483242.
22. Lawlor RT, Mafficini A, Sciammarella C, Cantù C, Rusev BC, Piredda ML, Antonello D, Grimaldi S, Bonizzato G, Sperandio N, Marchegiani G, Malleo G, Pea A, Salvia R, Mombello A, Mazzoleni G, Nottegar A, Hanspeter E, Riva G, Tomezzoli A, Bencivenga M, de Manzoni G, Pedron S, Paolino G, **Mattiolo P**, Brosens LA, Silvestris N, Fassan M, Cooke SL, Beer PA, Milella M, Adsay VN, Cheng L, Scarpa A, Luchini C. Genomic characterization of hepatoid tumors: context matters. *Hum Pathol*. 2021 Dec;118:30-41. doi: 10.1016/j.humpath.2021.09.006. Epub 2021 Sep 22. PMID: 34562502.
23. Luchini C, Mafficini A, Chatterjee D, Piredda ML, Sciammarella C, Navale P, Malleo G, **Mattiolo P**, Marchegiani G, Pea A, Salvia R, Brosens LA, Paolino G, Mastrosimini MG, Silvestris N, Milella M, Cheng L, Adsay VN, Lawlor RT, Scarpa A. Histo-molecular characterization of pancreatic cancer with microsatellite instability: intra-tumor heterogeneity, B2M inactivation, and the importance of metastatic sites. *Virchows Arch*. 2022 Jun;480(6):1261-1268. doi: 10.1007/s00428-021-03205-3. Epub 2021 Oct 6. PMID: 34613461.
24. Simbolo M, Bersani S, Vicentini C, Taormina SV, Ciaparrone C, Bagante F, Rusev B, Centonze G, Montresor M, Brunelli M, Pedron S, Mafficini A, Paolino G, **Mattiolo P**, Conci S, Milione M, Guglielmi A, Ruzzenente A, Scarpa A, Luchini C. Molecular characterization of extrahepatic

- cholangiocarcinoma: perihilar and distal tumors display divergent genomic and transcriptomic profiles. *Expert Opin Ther Targets*. 2021 Dec;25(12):1095-1105. doi: 10.1080/14728222.2021.2013801. Epub 2021 Dec 22. PMID: 34873971.
25. Mafficini A, Brosens LAA, Piredda ML, Conti C, **Mattiolo P**, Turri G, Mastrosimini MG, Cingarlini S, Crinò SF, Fassan M, Piccoli P, Simbolo M, Nottegar A, Lawlor RT, Guglielmi A, Scarpa A, Pedrazzani C, Luchini C. Juvenile polyposis diagnosed with an integrated histological, immunohistochemical and molecular approach identifying new SMAD4 pathogenic variants. *Fam Cancer*. 2022 Oct;21(4):441-451. doi: 10.1007/s10689-022-00289-x. Epub 2022 Jan 25. PMID: 35075588; PMCID: PMC9636285.
 26. Luchini C, Pantanowitz L, Adsay V, Asa SL, Antonini P, Girolami I, Veronese N, Nottegar A, Cingarlini S, Landoni L, Brosens LA, Verschuur AV, **Mattiolo P**, Pea A, Mafficini A, Milella M, Niazi MK, Gurcan MN, Eccher A, Cree IA, Scarpa A. Ki-67 assessment of pancreatic neuroendocrine neoplasms: Systematic review and meta-analysis of manual vs. digital pathology scoring. *Mod Pathol*. 2022 Jun;35(6):712-720. doi: 10.1038/s41379-022-01055-1. Epub 2022 Mar 5. PMID: 35249100; PMCID: PMC9174054.
 27. Vanoli A, Grami O, Klersy C, Milanetto AC, Albarello L, Fassan M, Luchini C, Grillo F, Spaggiari P, Inzani F, Uccella S, Parente P, Nappo G, **Mattiolo P**, Milione M, Pietrabissa A, Cobianchi L, Schiavo Lena M, Partelli S, Di Sabatino A, Sempoux C, Capella C, Pasquali C, Doglioni C, Sessa F, Scarpa A, Rindi G, Paulli M, Zerbi A, Falconi M, Solcia E, La Rosa S. Ampullary Neuroendocrine Neoplasms: Identification of Prognostic Factors in a Multicentric Series of 119 Cases. *Endocr Pathol*. 2022 Jun;33(2):274-288. doi: 10.1007/s12022-022-09720-6. Epub 2022 May 13. PMID: 35553369; PMCID: PMC9135850.
 28. Paolino G, Esposito I, Hong SM, Basturk O, **Mattiolo P**, Kaneko T, Veronese N, Scarpa A, Adsay V, Luchini C. Intraductal tubulopapillary neoplasm (ITPN) of the pancreas: a distinct entity among pancreatic tumors. *Histopathology*. 2022 Sep;81(3):297-309. doi: 10.1111/his.14698. Epub 2022 May 27. PMID: 35583805; PMCID: PMC9544156.
 29. Gkountakos A, Mafficini A, Lou E, Malleo G, Salvia R, Calicchia M, Silvestris N, Racila E, Amin K, Veronese N, Brunetti O, Antonini P, Ingravallo G, **Mattiolo P**, Saponaro C, Nappo F, Simbolo M, Bariani E, Lonardi S, Fassan M, Milella M, Lawlor RT, Scarpa A, Luchini C. Genomic characterization of undifferentiated sarcomatoid carcinoma of the pancreas. *Hum Pathol*. 2022 Oct;128:124-133. doi: 10.1016/j.humpath.2022.07.011. Epub 2022 Jul 16. PMID: 35850360.
 30. Mafficini A, Simbolo M, Shibata T, Hong SM, Pea A, Brosens LA, Cheng L, Antonello D, Sciammarella C, Cantù C, **Mattiolo P**, Taormina SV, Malleo G, Marchegiani G, Sereni E, Corbo V, Paolino G, Ciaparrone C, Hiraoka N, Pallaoro D, Jansen C, Milella M, Salvia R, Lawlor RT, Adsay V, Scarpa A, Luchini C. Integrative characterization of intraductal tubulopapillary neoplasm (ITPN) of the pancreas and associated invasive adenocarcinoma. *Mod Pathol*. 2022 Dec;35(12):1929-1943. doi: 10.1038/s41379-022-01143-2. Epub 2022 Sep 2. PMID: 36056133; PMCID: PMC9708572.
 31. Maggino L, Malleo G, Crippa S, Belfiori G, Nobile S, Gasparini G, Lionetto G, Luchini C, **Mattiolo P**, Schiavo-Lena M, Doglioni C, Scarpa A, Bassi C, Falconi M, Salvia R. CA19.9 Response and Tumor Size Predict Recurrence Following Post-neoadjuvant Pancreatectomy in Initially Resectable and Borderline Resectable Pancreatic Ductal Adenocarcinoma. *Ann Surg Oncol*. 2023 Jan;30(1):207-219. doi: 10.1245/s10434-022-12622-w. Epub 2022 Oct 13. PMID: 36227391; PMCID: PMC9726670.
 32. Luchini C, **Mattiolo P**, Basturk O, Mafficini A, Ozcan K, Lawlor RT, Hong SM, Brosens LA, Marchegiani G, Pea A, Manfrin E, Sciacca G, Zampieri F, Polati R, De Robertis R, Milella M, D'Onofrio M, Malleo G, Salvia R, Adsay V, Scarpa A. Acinar Cystic Transformation of the Pancreas: Histomorphology and Molecular Analysis to Unravel its Heterogeneous Nature. *Am J Surg Pathol*. 2023 Mar 1;47(3):379-386. doi: 10.1097/PAS.0000000000002017. Epub 2023 Jan 16. PMID: 36649476.
 33. Maggino L, Malleo G, Crippa S, Belfiori G, Bannone E, Lionetto G, Gasparini G, Nobile S, Luchini C, **Mattiolo P**, Schiavo-Lena M, Doglioni C, Scarpa A, Ferrone C, Bassi C, Fernández-Del Castillo C, Falconi M, Salvia R. Pathological staging in postneoadjuvant pancreatectomy for pancreatic cancer:

- implications for adjuvant therapy. *Br J Surg*. 2023 Jul 17;110(8):973-982. doi: 10.1093/bjs/znad146. PMID: 37260079.
34. Perri G, Marchegiani G, Partelli S, Andreasi V, Luchini C, Bariani E, Bannone E, Fermi F, **Mattiolo P**, Falconi M, Salvia R, Bassi C. Either High or low Risk: The Acinar Score at the Resection Margin Dichotomizes the Risk Spectrum Of Pancreas-specific Complications After Pancreatoduodenectomy. *Ann Surg*. 2023 Dec 1;278(6):e1242-e1249. doi: 10.1097/SLA.0000000000005943. Epub 2023 Jun 16. PMID: 37325905.
 35. Mastrosimini MG, Mafficini A, Tondulli L, Milella M, Piccoli P, **Mattiolo P**, Fassan M, Hong SM, Scarpa A, Luchini C. Recurrent gastric amphicrine tumor with neuroendocrine and pancreatic acinar cell differentiation and somatic MEN1 inactivation arisen during immunotherapy. *Virchows Arch*. 2023 Sep;483(3):415-419. doi: 10.1007/s00428-023-03624-4. Epub 2023 Aug 15. PMID: 37581694.
 36. Malleo G, Lionetto G, Crippa S, Qadan M, Moser G, Belfiori G, Scarpa A, Schiavo-Lena M, Casciani F, **Mattiolo P**, Paiella S, Esposito A, Luchini C, Ferrone CR, Lillemoe KD, Fernández-Del Castillo C, Falconi M, Salvia R. Reappraising the Role of Intraoperative Neck Margin Revision in Post-Neoadjuvant Pancreatoduodenectomy for Pancreatic Ductal Adenocarcinoma: A Multi-Institutional Analysis. *Ann Surg*. 2024 May 6. doi: 10.1097/SLA.0000000000006322. **Epub ahead of print**. PMID: 38708617.
 37. Masetto M, Mafficini A, Saka B, Armutlu A, Chatterjee D, Jang KT, Zen Y, Navale P, Fassan M, Bacchi CE, **Mattiolo P**, Simbolo M, Ruzzenente A, Lawlor RT, Reid M, Basturk O, Adsay V, Scarpa A, Luchini C. Tubulocystic carcinoma of bile ducts: a distinct type of cholangiocarcinoma associated with adenofibroma-type lesions. *Am J Surg Pathol*. 2024 Sep 1;48(9):1082-1092. doi: 10.1097/PAS.0000000000002278. Epub 2024 Jul 1. PMID: 38946053.
 38. Paolino G, Basturk O, Esposito I, Hong SM, Brosens LA, Tarcan Z, Wood LD, Gkountakos A, Omori Y, **Mattiolo P**, Ciulla C, Marchegiani G, Pea A, Bevere M, De Robertis R, D'Onofrio M, Salvia R, Cheng L, Furukawa T, Scarpa A, Adsay V, Luchini C. Comprehensive characterization of intraductal oncocytic papillary neoplasm (IOPN) of the pancreas: a systematic and critical review. *Mod Pathol*. Sep;37(9):100554. doi: 10.1016/j.modpat.2024.100554. Epub 2024 Jun 29. PMID: 38950698.
 39. Veronese N, Luchini C, Ciriminna S, Spinelli K, Fruscione S, **Mattiolo P**, Belluzzo M, Messina V, Smith L, Barbagallo M, Mazzucco W. Potentialities and critical issues of liquid biopsy in clinical practice: An umbrella review. *Transl Oncol*. 2025 Jan 15;52:102172. doi: 10.1016/j.tranon.2024.102172. Epub 2025 Jan 15. PMID: 39817953.
 40. Vanoli A, Piva N, Inzani FS, Grillo F, Klersy C, Uccella S, Spaggiari P, Albarello L, Schiavo Lena M, Milione M, Antoniacomi C, Milanetto AC, Zerbi A, Di Sabatino A, Falconi M, Anderloni A, **Mattiolo P**, Luchini C, Scarpa A, Fassan M, Parente P, Luinetti O, Rindi G, Paulli M, La Rosa S. Clinicopathological Correlates of Hormone Expression-Based Subtypes of Non-Functioning Duodenal/Ampullary Neuroendocrine Tumors: A Multicenter Study of 151 Cases. *Endocr Pathol*. 2025 May 10;36(1):18. doi: 10.1007/s12022-025-09861-4. PMID: 40347392; PMCID: PMC12065733.
 41. Pea A, Bevere M, Gkountakos A, Pasini D, Fiorini D, Mafficini A, Golovco S, Simbolo M, Pedron S, Sciammarella C, **Mattiolo P**, Mombello A, Villanova M, Franzina C, Masetto F, Ciulla C, Sperandio N, Fujikura K, Ahadi MS, Samra JS, Johns AL, Verheij J, Stommel MWJ, van Santvoort H, Schubert Santana L, Malleo G, Milella M, Brosens LAA, Wood LD, Chang DK, De Robertis R, D'Onofrio M, Gill AJ, Salvia R, Corbo V, Lawlor RT, Scarpa A, Luchini C. Mucinous cystic neoplasms and simple mucinous cysts are two distinct precursors of pancreatic cancer: clinicopathological, genomic, and transcriptomic characterization. *J Pathol*. 2025 Aug;266(4-5):421-434. doi: 10.1002/path.6437. Epub 2025 May 15. PMID: 40371932; PMCID: PMC12256392.
 42. Luchini C, Franzina C, Caldart F, De Pretis N, Crestani M, Donadelli M, **Mattiolo P**, Fiore A, Danzi F, De Robertis R, Bevere M, Baldan R, Tommasi L, Vianini N, Bernardi P, Galiè M, Pea A, Ciccocioppo R, D'Onofrio M, Salvia R, Verbeke C, Sbarbati A, Scarpa A, Veronese N, Frulloni L. Fatty Pancreas Disease: An Integrated Study on Frozen Tissues Shows Distinct Compartments of

- Interlobular/Intralobular, Intra-Acinar, and Intra-Islet Fat Deposition. *Lab Invest.* 2025 Nov;105(11):104214. doi: 10.1016/j.labinv.2025.104214. Epub 2025 Aug 19. PMID: 40840644.
43. de Pretis N, Mastella P, Baldan R, Martinelli L, Mantovani W, Caldart F, Crucillà S, Luchini C, **Mattiolo P**, Scarpa A, et al. Solid Pseudopapillary Neoplasm of the Pancreas: EUS Features and Diagnostic Accuracy of EUS-Guided Fine Needle Biopsy Using a 22-Gauge Fork-Tip Needle in a High-Volume Center. *Applied Sciences.* 2025; 15(22):12313. <https://doi.org/10.3390/app152212313>
 44. Franzina C, Bevere M, Bersani S, Mattiolo P, Ceccon C, Piccoli P, Malleo G, Lawlor RT, Salvia R, Milella M, Fassan M, Scarpa A, Luchini C. High fidelity of Claudin-18.2 expression in primary and matched metastatic (lymph nodes, peritoneum, and liver) pancreatic ductal adenocarcinoma: a foundation for targeted therapy. *Hum Pathol.* 2025 Dec 11;168:106014. doi: 10.1016/j.humpath.2025.106014. Epub ahead of print. PMID: 41389898.

Abstracts:

1. Maddalo G, Fassan M, **Mattiolo P**, Rugge M, Farinati F, Zingone F, DUODENUM FINDINGS IN GASTRIC DISEASES: A RETROSPECTIVE HISTOLOGICAL EVALUATION. Abstracts of the 25th National Congress of Digestive Diseases / Digestive and Liver Disease 51/S2 (2019) e71–e243.
2. Mafficini A, **Mattiolo P**, Brosens LAA, Luchini C. An integrated histological, immunohistochemical and molecular approach, identifying new *SMAD4* somatic mutations, for the diagnosis of a case of juvenile polyposis. Italian Society of Pathology Congress, Online Only Meeting, November 2021.
3. **Mattiolo P**, Mafficini A, Lawlor RT, Scarpa A, Luchini C. Histo-molecular characterization of pancreatic cancer with microsatellite instability. Italian Society of Pathology Congress, Online Only Meeting, November 2021.
4. **Mattiolo P**, Sciammarella C, Mafficini A, Lawlor RT, Luchini C. Molecular analysis of an intestinal neuroendocrine-non neuroendocrine neoplasm (MiNEN) reveals microsatellite instability and a monoclonal origin: diagnostic and clinical implications. Italian Society of Pathology Congress, Online Only Meeting, November 2021.
5. Maggino L, Malleo G, Crippa S, Belfiori G, Bannone E, Gasparini G, Nobile S, Luchini C, **Mattiolo P**, Schiavo-Lena M, Doglioni C, Scarpa A, Bassi C, Falconi M, Salvia R. Differential effect of adjuvant therapy across staging classes in patients receiving post-neoadjuvant pancreatectomy for pancreatic ductal adenocarcinoma. XLV National Congress AISP (Italian Association for the Study of the Pancreas) BERGAMO, September 9th/10th 2021

Posters:

1. Mafficini A, **Mattiolo P**, Brosens L A A, Luchini C. An integrated histological, immunohistochemical and molecular approach, identifying new *SMAD4* pathogenic mutations, for the diagnosis of a case of juvenile polyposis. Congresso Annuale di Anatomia Patologica SIAPEC IAP 2021 (annual congress of Italian Academy of Pathology)
2. **Mattiolo P**, Mafficini A, Lawlor R T, Scarpa A Luchini C. Histo-molecular characterization of pancreatic cancer with microsatellite instability. Congresso Annuale di Anatomia Patologica SIAPEC IAP 2021 (annual congress of Italian Academy of Pathology)
3. **Mattiolo P**, Sciammarella C, Mafficini A, Lawlor R T, Luchini C. Molecular analysis of an intestinal neuroendocrine / non neuroendocrine neoplasm (MiNEN) reveals microsatellite instability and a monoclonal origin: diagnostic and clinical implications. Congresso Annuale di Anatomia Patologica SIAPEC IAP 2021 (annual congress of Italian Academy of Pathology)
4. **Mattiolo P**, Mafficini A, Lawlor R T, Marchegiani G, Malleo G, Pea A, Salvia R, Adsay V, Scarpa A, Luchini C. “Pure” hepatoid tumors of the pancreas harboring *CTNNB1* somatic mutations: a new

- entity among solid-pseudopapillary neoplasms. 54th Meeting of the European Pancreatic Club Kyiv, Ukraine (2022)
5. Mafficini A, Simbolo M, Shibata T, Hong S, Pea A, Brosens L, Cheng L, Antonello D, Sciammarella C, Cantù C, **Mattiolo P**, Taormina S, Malleo G, Marchegiani G, Sereni E, Corbo V, Paolino G, Ciaparrone C, Hiraoka N, Pallaoro D, Jansen C, Milella M, Salvia R, Lawlor R, Adsay V, Scarpa A, Luchini C. Integrative characterization of intraductal tubulopapillary neoplasm (ITPN) of the pancreas and associated invasive adenocarcinoma. 54th Meeting of the European Pancreatic Club Kyiv, Ukraine (2022)
 6. Luchini C, Simbolo M, Silvestris N, Mafficini A, Maggino L, Malleo G, **Mattiolo P**, Salvia R, Lawlor R, Scarpa A. Integrative characterization of pancreatic ductal adenocarcinoma with poorly cohesive / signet ring cells. 54th Meeting of the European Pancreatic Club Kyiv, Ukraine (2022)
 7. Shin J, Lee S J, Shin J, **Mattiolo P**, Luchini C, Hong S. Venous invasion of undifferentiated carcinoma and undifferentiated carcinoma with osteoclast-like giant cells of the pancreas. 34th European Congress of Pathology (2022)
 8. **Mattiolo P**, Basturk O, Mafficini A, Kerem O, Lawlor R T, Hong S, Brosens L A, Adsay V, Scarpa A, Luchini C. Acinar cystic transformation of the pancreas: clinical and molecular analysis for unravelling its heterogeneous nature. 34th European Congress of Pathology (2022)

Poster/Abstract:

1. **Mattiolo P**, Wuang H, Scarpa A, Luchini C. Comprehensive characterization of acinar cystic transformation of the pancreas: a systematic review. 35th European Congress of Pathology (2023) *poster*; Virchows Archiv (2023) 483 (Suppl 1):S226 *abstract*

Book Chapters:

1. Scarpa A, **Mattiolo P**, Luchini C. Chapter on molecular pathology ("Patologia molecolare e terapeutica) in an Italian textbook on pathology "Manuale di Anatomia Patologica funzionale". Minerva Medica Ed., Turin - Rome, 2021.
2. **Mattiolo P**, Lever V, Nottegar A, Luchini C. Haemochromatosis. Encyclopedia of Pathology (Pancreatic pathology). H.V.Krieken ed. (I. Esposito for pancreatic pathology). Springer, 2020.

Participation at congresses as speaker:

1. Meeting of neuropathology: "Meeting primaverile GINP con updates sulla nuova WHO classification dei tumori del SNC *quinta edizione*" – Slide seminar presentation. Date: 05/13/2021. Virtual meeting
2. Meeting of digital pathology: "Implementazione digitale dei percorsi diagnostici in anatomia patologica tra formazione, competenza e innovazione" Date: 04/08/2022. Bozen, Italy
3. 34th European Congress of Pathology: "Acinar cystic transformation of the pancreas: clinical and molecular analysis for unravelling its heterogenous nature". Date 09/04/2022. Basel, Switzerland
4. 9th Triennial Italian Congress of Pathology SIAPeC IAP 2022: "Acinar cystic transformation of the pancreas: clinical and molecular analysis for unravelling its heterogenous nature". Date 10/12/2022. Padua, Italy
5. 9th Triennial Italian Congress of Pathology SIAPeC IAP 2022: "Troubleshooting in patologia molecolare". Date 10/13/2022. Padua, Italy

6. Meeting: “Comparing solid & liquid biopsy data in solid tumors: an emerging scenario” Date: 06/30/2023. Verona, Italy
7. Annual Italian Congress of Pathology SIAPeC IAP 2023: “Intestinal neuroendocrine tumors: transcriptome analysis identified three different molecular subgroups with potentially clinical implications.” Date 10/20/2023. Naples, Italy
8. LXV Congreso 2024 del Colegio y Asociación Mexicana de Patólogos (LXV Congress 2024 of the Mexican College and Association of Pathologists): “Pancreatic cysts: histology, immunohistochemistry, and molecular pathology for the diagnostic algorithm” Date: 05/03/2024.
9. 36th European Congress of Pathology ECP 2024: “Gastric differentiation in pancreatic tumours and their precursors” Date: 09/09/2024. Florence, Italy
10. XLVIII National Congress AISP (Italian Association for the Study of the Pancreas): “Il ruolo dell’anatomia patologica nello studio dei tumori del pancreas”. Date 09/12/2024. Bergamo, Italy
11. ARENA 2025 Pancreas Multidisciplinare Multimodale (Congress about the multidisciplinary approach to pancreatic pathology): “Caratteristiche cito-istologiche delle lesioni cistiche”. Date 04/12/2025. Verona, Italy
12. 37th European Congress of Pathology ECP 2025: “Mucin producing neoplasms of the pancreas” Date: 09/09/2025. Vienna, Austria

Educational activity

- Appointed as “cultore della materia”* (in surgical pathology) by the Department of Diagnostics and Public Health, University of Verona, since 12/12/2023

**The role of “cultore della materia” (translation “subject expert”) is regulated by Italian Laws and Regulations (R.D. 4 Giugno 1938 n. 1269) and entitles to be part of the commissions for teaching, profit, and degree exams in universities.*

- Co-teaching activities in the course “Diagnostic and Laboratory Methodologies”, module of Molecular Pathology, Bachelor’s degree in Biomedical Laboratory Techniques, for a total of 6 hours;
- Co-teaching activities in the course “Pathological Anatomy”, module of Medicine and Surgery degree, for a total of 5 hours;
- Member of the examination committee of General Pathological Anatomy, course of the Medicine and Surgery Degree:
 - N.1 session, (01/18/2024), winter session 2023-2024;
 - N.1 session, (02/01/2024), winter session 2023-2024;
 - N.1 session, (09/27/2024), summer session 2023-2024;
 - N.1 session, (01/13/2025), winter session 2024-2025.

Third mission activity

- Author of “Pancreatic Pseudocysts” chapter on the general reference website PathologyOutlines (<https://www.pathologyoutlines.com/topic/pancreaspseudocyst.html>).
- Author of “Nesidioblastosis” chapter on the general reference website PathologyOutlines (<https://www.pathologyoutlines.com/topic/pancreasnesidio.html>).

Activity as Scientific Reviewer for Peer-Reviewed Journals

Scientific Reviewer for 22 Peer-Reviewed Journals, for a total of 48 Manuscripts

Journal	Impact factor	Reviewer since	Number of reviews
Pancreatic disorder and Therapy	no	2020	1
BMC Gastroenterology	yes	2021	2
Scientific Reports	yes	2021	4
International Journal of Immunopathology and Pharmacology	yes	2021	1
Diagnostic Pathology	yes	2022	3
BMC Neurology	yes	2022	2
Heliyon	yes	2023	8
World Journal of Gastrointestinal Oncology	yes	2023	3
World Journal of Clinical Cases	yes	2023	1
Virchows Archives	yes	2023	7
Digestive Surgery	yes	2023	1
World Journal of Stem Cells	Yes	2023	1
BMC Cancer	Yes	2023	3
World Journal of Clinical Oncology	Yes	2024	1
JNCI Cancer Spectrum	Yes	2024	1
World Journal of Gastroenterology	Yes	2024	1
Discovery Oncology	Yes	2024	1
Journal of Gastrointestinal Cancer	Yes	2024	2
World Journal of Transplantation	Yes	2024	2
Pathology - Research and Practice	Yes	2024	6
World Journal of Diabetes	Yes	2024	1
Journal of Cancer Research and Clinical Oncology	Yes	2025	1
Human Pathology reports	Yes	2025	2
British journal of cancer	Yes	2025	1
Modern Pathology	Yes	2025	3
Human Pathology	Yes	2025	2