

**Prof. Panteghini Mauro**

**TITOLO DI STUDIO** Laurea in Medicina e Chirurgia, Specializzazione in Medicina di Laboratorio

**POSIZIONE RICOPERTA** Professore Ordinario di Biochimica Clinica e Biologia Molecolare Clinica  
Direttore Cattedra di Biochimica Clinica e Biologia Molecolare Clinica  
Dipartimento di Scienze Biomediche e Cliniche "Luigi Sacco"  
Facoltà di Medicina e Chirurgia - Polo Didattico di Vialba - Università degli Studi di Milano

Direttore della Scuola di Specializzazione in Patologia Clinica e Biochimica Clinica,  
Università degli Studi di Milano

Coordinatore Scientifico, Centro Interdipartimentale di Ricerca sulla Riferibilità  
Metrologica in Medicina di Laboratorio (CIRME), Università degli Studi di Milano

Direttore Dipartimento di Medicina di Laboratorio e Diagnostica per Immagini, ASST  
Fatebenefratelli-Sacco

Direttore (in convenzione con l'Università di Milano) U.O.C. Patologia Clinica, ASST Fatebenefratelli-Sacco

**PRINCIPALI INCARICHI SCIENTIFICI  
INTERNAZIONALI**

Componente dell'Executive Board del Joint Committee on Traceability in Laboratory  
Medicine (JCTLM), 2006-2010 e 2017-presente

Coordinatore della Task Force on Reference Measurement System Implementation (TF-RMSI)  
del JCTLM, 2019-presente

Vice-Chair del JCTLM Database Working Group - Analyte Group 2, 2017-presente

Componente dell'European Commission Expert Panels in the Field of Medical Devices, 2020-  
presente

Componente dell'International Federation of Clinical Chemistry & Laboratory Medicine (IFCC)  
Working Group on Commutability in Metrological Traceability (WG-CMT), 2020-presente

Componente dell'IFCC Working Group of Standardization of Troponin I (WG-TNI), 2010-  
presente

Componente dell'IFCC Working Group of Standardisation of Albumin Assay in Urine (WG-  
SAU), 2010-presente

Componente del U.S. National Kidney Disease Education Program's (NKDEP) Laboratory  
Working Group, 2003-presente

Presidente della European Federation of Clinical Chemistry and Laboratory Medicine (EFLM),  
2014-2015

Presidente del 20<sup>th</sup> IFCC-EFLM European Congress of Clinical Chemistry & Laboratory  
Medicine, Milano IT, 2013

Coordinatore della Scientific Division IFCC, 2006-2010

Visiting Lecturer in the Asian-Pacific Region for the IFCC (Agosto-Settembre 2008) in  
Giappone, Taiwan, Hong Kong, Malesia, Indonesia e Australia - (Ottobre 2009) in Cina

Visiting Professor in the Bydgoszcz Collegium Medicum, Nicolaus Copernicus University in  
Torun, Poland (2018-2019)

Componente dell'Editorial Board di Clinica Chimica Acta, 2004-presente

Componente dell'Editorial Board di Clinica Chemistry & Laboratory Medicine, 2009-presente

Chairman dello Steering Committee della IFCC-Roche Diagnostics Bergmeyer Conference  
(2006-2010)

**ATTIVITÀ SCIENTIFICA**

**592 pubblicazioni edite a stampa, delle quali 387 su riviste recensite in Medline PubMed  
e 458 su riviste recensite in Scopus**

**H-index 63 (Google Scholar) & H-index 52 (Scopus)**

480 abstract di presentazioni a congressi internazionali e nazionali  
123 letture ad invito a Congressi Internazionali  
19 premi o riconoscimenti in campo internazionale e nazionale  
Organizzazione di 40 eventi scientifici a carattere nazionale ed internazionale.

**PUBBLICAZIONI PIU' CITATE**

- Myers GL, Miller WG, Coresh J, Fleming J, Greenberg N, Greene T, Hostetter T, Levey AS, Panteghini M, Welch M, Eckfeld JH. Recommendations for improving serum creatinine measurement: A report from the Laboratory Working Group of the National Kidney Disease Education Program. *Clin Chem* 2006;52:5-18
- Apple FS, Wu AHB, Mair J, Ravkilde J, Panteghini M, Tate J, et al. Future biomarkers for detection of ischemia and risk stratification in acute coronary syndrome. *Clin Chem* 2005;51:810-24
- Apple FS, Wu AHB, Jaffe AS, Panteghini M; Christenson RH. National Academy of Clinical Biochemistry and IFCC Committee for Standardization of Markers of Cardiac Damage Laboratory Medicine practice guidelines: Analytical issues for biomarkers of heart failure. *Circulation* 2007;116:e95-8
- Saenger AK, Beyrau R, Braun S, Cooray R, Dolci A, Freidank H, Giannitsis E, Gustafson S, Handy B, Katus H, Melanson SE, Panteghini M, et al. Multicenter analytical evaluation of a high-sensitivity troponin T assay. *Clin Chim Acta* 2011;412:748-54
- Panteghini M; Pagani F, Yeo KTJ, et al. Evaluation of imprecision for cardiac troponin assays at low-range concentrations. *Clin Chem* 2004;50:327-32
- Schumann G, Bonora R, Ceriotti F, Clerc-Renaud P, Ferard G, Ferrero CA, Franck PFH, Gella FJ, Hoelzel W, Jorgensen PJ, Kanno T, Kessner A, Klauke R, Kristiansen N, Lessinger JM, Linsinger TPJ, Misaki H, Panteghini M, et al. IFCC primary reference procedures for the measurement of catalytic activity concentrations of enzymes at 37° C. Part 4. Reference procedure for the measurement of catalytic concentration of alanine aminotransferase. *Clin Chem Lab Med* 2002;40:718-24
- Mueller C, Giannitsis E, Christ M, Ordóñez-Llanos J, deFilippi C, McCord J, Body R, Panteghini M, et al. Multicenter evaluation of a 0-hour/1-hour algorithm in the diagnosis of myocardial infarction with high-sensitivity cardiac troponin T. *Ann Emerg Med* 2016;68:76-87
- Sandberg S, Fraser CG, Horvath AR, Jansen R, Jones G, Oosterhuis W, Petersen PH, Schimmel H, Sikaris K, Panteghini M. Defining analytical performance specifications: Consensus Statement from the 1st Strategic Conference of the European Federation of Clinical Chemistry and Laboratory Medicine. *Clin Chem Lab Med* 2015;53:833-5
- Dolci A, Dominici R, Cardinale D, Sandri MT, Panteghini M. Biochemical markers for prediction of chemotherapy-induced cardiotoxicity. *Am J Clin Pathol* 2008;130:688-95
- Hicks J, Muller M, Panteghini M, et al. Consensus statement on the worldwide standardization of the hemoglobin A1C measurement. *Diabetes Care* 2007;30:2399-400
- Panteghini M. Role and importance of biochemical markers in clinical cardiology. *Eur Heart J* 2004;25:1187-96
- Ceriotti F, Boyd JC, Klein G, Henny J, Queraltó J, Kairisto V, Panteghini M; on behalf of the IFCC Committee on Reference Intervals Decision Limits (C-RIDL). Reference intervals for serum creatinine concentrations: assessment of available data for global application. *Clin Chem* 2008;54:559-66
- Panteghini M, Gerhardt W, Apple FS, Dati F, Ravkilde J, Wu AH. Quality specifications for cardiac troponin assays. *Clin Chem Lab Med* 2001;39:174-8
- Ferraro S, Braga F, Lanzoni M, Boracchi P, Biganzoli EM, Panteghini M. Serum human epididymis protein 4 vs carbohydrate antigen 125 for ovarian cancer diagnosis: a systematic review. *J Clin Pathol* 2013;66:273-81
- Apple FS, Panteghini M, Ravkilde J, Mair J, Wu AHB, Tate J, et al. Quality specifications for B-type natriuretic peptide assays. *Clin Chem* 2005;51:486-93
- Ceriotti F, Hinzmann R, Panteghini M. Reference intervals: the way forward. *Ann Clin Biochem* 2009;46:8-17
- Panteghini M. Enzymatic assays for creatinine: time for action. *Scand J Clin Lab Invest* 2008;68(suppl 241):84-8
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#### PROCEEDINGS EDITOR

Braga F, Panteghini M (eds.). Measurement uncertainty in medical laboratories: Friend or foe? *Clin Biochem* 2018;57: issue 57, Pp 64

Krintus M, Plebani M, Panteghini M (eds.). Improving laboratory performance through quality indicators. *Clin Biochem* 2017;50: issues 10-11, Pp 91

Panteghini M, Sandberg S (eds.). 1<sup>st</sup> EFLM Strategic Conference "Defining analytical performance goals - 15 years after the Stockholm conference". *Clin Chem Lab Med* 2015;53: issue 6, Pp 129

Tate JR, Johnson R, Barth JH, Panteghini M (eds.). Harmonization of laboratory testing. *Clin Chim Acta* 2014; issue 432, Pp 166

Panteghini M, Gillery P (eds.). IFCC Scientific Division: an update of the ongoing activities. *Clin Chem Lab Med* 2010;48: issue 11, Pp 92

Kallner A, Baumann F, Panteghini M (eds.). Novel biomarkers: from discovery to clinical application. *Scand J Clin Lab Invest* 2010;70(suppl 242), Pp 123

Panteghini M (ed.) Cardiac biomarkers. *Clin Chem Lab Med* 2008;46: issue 11, Pp 66

Kallner A, Panteghini M, Smith J, Baumann F (eds.). Markers of Kidney Disease. *Scand J Clin Lab Invest* 2008;68(suppl 241), Pp 112

Kallner A, Panteghini M, Holz W (eds.). Markers for Cardiac Damage - Current Status and Future Trends. *Scand J Clin Lab Invest* 1999;59(suppl 230), Pp 181

#### PUBBLICAZIONI PIU' RECENTI

Borrillo F, Infusino I, Birindelli S, Panteghini M. Use of Neurosoft expert system improves turnaround time in a laboratory section specialized in protein diagnostics: a two-year experience. *Clin Chem Lab Med*. 2021 Mar 5. doi: 10.1515/cclm-2021-0146. Epub ahead of print.

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Pasqualetti S, Aloisio E, Panteghini M. Letter to the Editor: Serum Albumin in COVID-19: A Good Example in Which Analytical and Clinical Performance of a Laboratory Test Are Strictly Intertwined. *Hepatology*. 2021 Mar 4. doi: 10.1002/hep.31791. Epub ahead of print.

Ferraro S, Bussetti M, Panteghini M. Serum Prostate-Specific Antigen Testing for Early Detection of Prostate Cancer: Managing the Gap between Clinical and Laboratory Practice. *Clin Chem*. 2021 Feb 23:hvab002. doi: 10.1093/clinchem/hvab002. Epub ahead of print.

Aloisio E, Falvella FS, Carnevale A, Panteghini M. SARS-CoV-2 serologic tests: do not forget the good laboratory practice. *Clin Chem Lab Med*. 2020 Dec 2:cclm-2020-1554. doi: 10.1515/cclm-2020-1554. Epub ahead of print. PMID: 33554559.

Dolci A, Robbiano C, Aloisio E, Chibireva M, Serafini L, Falvella FS, Pasqualetti S, Panteghini M. Searching for a role of procalcitonin determination in COVID-19: a study on a selected cohort of hospitalized patients. *Clin Chem Lab Med* 2021;59(2):433-440.

Ferraro S, Bussetti M, Simona Rossi R, Piero Incarbono G, Panteghini M. Is pre-biopsy serum prostate specific antigen retesting always justified? A study of the influence of individual and analytical

factors on decision making for biopsy referral. *Clin Chim Acta*. 2021 Jan 29;50009-8981(21)00033-4. doi: 10.1016/j.cca.2021.01.017. Epub ahead of print.

Szoke D, Caruso S, Aloisio E, Pasqualetti S, Dolci A, Panteghini M. Serum potassium concentrations in COVID-19. *Clin Chim Acta* 2021;512:26-27.

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Massari M, Novielli C, Mandò C, Di Francesco S, Della Porta M, Cazzola R, Panteghini M, Savasi V, Maggini S, Schaefer E, Cetin I. Multiple Micronutrients and Docosahexaenoic Acid Supplementation during Pregnancy: A Randomized Controlled Study. *Nutrients*. 2020 Aug 13;12(8):2432. doi: 10.3390/nu12082432.

Falvella FS, Serafini L, Birindelli S, Panteghini M. Validation of the reticulocyte channel of Sysmex XN-9000 system for blood cell count in samples with suspected cold agglutination for use in a total laboratory automation setting. *J Clin Pathol* 2020 Dec;73(12):847-848.

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Aloisio E, Serafini L, Chibireva M, Dolci A, Panteghini M. Hypoalbuminemia and elevated D-dimer in COVID-19 patients: a call for result harmonization. *Clin Chem Lab Med* 2020;58(11):e255-e256.

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Braga F, Panteghini M. Derivation of performance specifications for uncertainty of serum C-reactive protein measurement according to the Milan model 3 (state of the art). *Clin Chem Lab Med* 2020;58(11):e263-e265.

Ferraro S, Braga F, Luksch R, Terenziani M, Caruso S, Panteghini M. Measurement of Serum Neuron-Specific Enolase in Neuroblastoma: Is There a Clinical Role? *Clin Chem* 2020;66(5):667-75.

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Panteghini M ed. Interpretazione degli esami di laboratorio. Trattato Italiano di Medicina di Laboratorio. Vol VII. Piccin, Padova 2008

Salit ML, Ciesiolka T, Greenberg N, Miller RR, Miller WG, Myers GL, Panteghini M, et al. Metrological traceability and its implementation; a report. Clinical and Laboratory Standards Institute, Wayne PA, 2006

Bozzetti E, Bozzetti F, Combetti E, Migliorati T, Milanesi B, Pagani F, Panteghini M, Peretti P, Rota G. Idee direttive in Medicina di Laboratorio. Piccin ed. Padova, 1991

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Bais R, Panteghini M. Enzyme and rate analyses. In: "Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics". 8th ed. N Rifai, AR Horvath, CT Wittwer, eds. pp. 215-35. Elsevier Saunders:

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Panteghini M, Bais R. Serum enzymes. In: "Tietz Textbook of Clinical Chemistry and Molecular Diagnostics". 6th ed. N Rifai, AR Horvath, CT Wittwer, eds. pp. 404-34. Elsevier Saunders: St. Louis, 2018.

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Panteghini M, Bais R. Serum enzymes. In: "Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics". 7th ed. CA Burtis, DE Bruns eds. pp. 318-36. Elsevier Saunders: St. Louis, 2015.

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Panteghini M, Bais R. Serum enzymes. In: "Tietz Textbook of Clinical Chemistry and Molecular Diagnostics". 5th ed. CA Burtis, ER Ashwood, DE Bruns eds. pp. 565-98. Elsevier Saunders: St. Louis, 2012.

Bais R, Panteghini M. Enzyme and rate analysis. In: "Tietz Textbook of Clinical Chemistry and Molecular Diagnostics". 5th ed. CA Burtis, ER Ashwood, DE Bruns eds. pp. 355-77. Elsevier Saunders: St. Louis, 2012.

Panteghini M. Laboratory evaluation of the pancreas. In: Clarke W ed. Contemporary practice in clinical chemistry. 2nd ed. Washington DC: AACC Press, 2011:333-41.

Tate JR, Panteghini M. Troponins. In: "Methods in clinical chemistry". Hickman PE, Koerbin G, eds. pp. 1224-45. Pesce Kaplan Publishers, 2009.

Panteghini M. Lactate dehydrogenase and lactate dehydrogenase isoenzymes. In: "Methods in clinical chemistry". Hickman PE, Koerbin G, eds. pp. 793-6. Pesce Kaplan Publishers, 2009.

Panteghini M. Creatine kinase isoenzymes. In: "Methods in clinical chemistry". Hickman PE, Koerbin G, eds. pp. 436-9. Pesce Kaplan Publishers, 2009.

Panteghini M. Creatine kinase. In: "Methods in clinical chemistry". Hickman PE, Koerbin G, eds. pp. 430-5. Pesce Kaplan Publishers, 2009.

Panteghini M, Bais R. Enzymes. In: "Tietz Fundamentals of Clinical Chemistry". 6th ed. CA Burtis, ER Ashwood, DE Bruns eds. pp. 317-36. Elsevier Saunders: St. Louis, 2008

Bais R, Panteghini M. Principles of clinical enzymology. In: "Tietz Fundamentals of Clinical Chemistry". 6th ed. CA Burtis, ER Ashwood, DE Bruns eds. pp. 140-54. Elsevier Saunders: St. Louis, 2008

Panteghini M, Clerico A. Cardiac natriuretic hormones as markers of cardiovascular disease: methodological aspects. In: "Natriuretic peptides. The hormones of the heart". A Clerico, M Emdin eds. pp. 65-89. Springer: Berlin, 2006

Panteghini M, Bais R, van Solinge WW. Enzymes. In: "Tietz textbook of Clinical Chemistry and Molecular Diagnostics". 4th ed. CA Burtis, ER Ashwood, DE Bruns eds. pp. 597-643. Elsevier Saunders: St. Louis, 2006

Bais R, Panteghini M. Principles of clinical enzymology. In: "Tietz textbook of Clinical Chemistry and Molecular Diagnostics". 4th ed. CA Burtis, ER Ashwood, DE Bruns eds. pp. 191-218. Elsevier Saunders: St. Louis, 2006

Panteghini M. Standardization of cardiac markers. In: "Cardiac markers". 2nd ed. AHB Wu ed. pp. 213-29. Humana Press: Totowa, 2003

Plebani M, Panteghini M. Troponin I: structure, physiology and its role in risk stratification of angina patients. In: "Myocardial damage: Early detection by novel biochemical markers". JC Kaski & W Holt eds. pp. 41-52. Kluwer Academic Publisher: Norwell, 1998

Panteghini M. Myosin light and heavy chains. In: "Cardiac markers". AHB Wu ed. pp. 245-56. Humana Press: Totowa, 1998

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