



DIPARTIMENTO DI SANITA' PUBBLICA E MALATTIE INFETTIVE
CURRICULUM DIDATTICO-SCIENTIFICO DEL PROF. CLAUDIO M. MASTROIANNI

DATI PERSONALI

Nome e Cognome

Claudio M. Mastroianni

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Settore Scientifico-Disciplinare: Malattie Infettive MED17

Orario di Ricevimento: mercoledì 14-18



ATTUALE POSIZIONE

➤ Professore Ordinario di Malattie Infettive

CARRIERA E TITOLI

1981: Laurea in Medicina e Chirurgia con lode

1984: Specializzazione in Malattie Infettive con lode

1990: Dottorato di Ricerca in Scienze Infettivologiche

1990-1999 Funzionario tecnico strutturato

2000-2005 Professore Associato di Malattie Infettive

2005 a tutt'oggi: Professore Ordinario di Malattie infettive

2010: Presidente Sezione Regionale Società Italiana di Malattie Infettive e Tropicali

2011: Membro del gruppo romano di lavoro sulla Tubercolosi

2021-2023: Presidente della Società Italiana di Malattie Infettive e Tropicali (SIMIT)

2023 a tutt'oggi: Presidente del Collegio dei Professori Ordinari di Malattie Infettive

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ATTIVITA' DIDATTICA

- 1) Coordinatore di semestre V Anno CLM A in Medicina e Chirurgia,
- 2) Titolare Insegnamento di Malattie Infettive nei Corso di Patologia Integrata V del CLM "A"
- 3) Direttore della Scuola di Specializzazione in Malattie Infettive e Tropicali, Membro del Collegio dei Docenti del Dottorato di Ricerca in Malattie Infettive, Microbiologia e Sanità Pubblica

ATTIVITA' SCIENTIFICA

Principali settori di ricerca: HIV, tubercolosi, infezioni e immunità, infezioni del SNC, infezioni virali, patologie infettive emergenti, Antimicrobico-resistenza, COVID-19



H-index 45

Coordinatore di varie sperimentazioni cliniche sulla terapia dell'infezione da HIV; in particolare, è stato coordinatore di vari studi clinici ACTG effettuati in collaborazione con il National Institute of Health degli USA. Coordinatore di Progetti di Ricerca per la lotta all'AIDS finanziati dall'ISS; Responsabile scientifico di progetti di ricerca universitari.

Principali collaborazioni nazionali e internazionali:

- Guelph University in Canada (Prof. Prescott) e Ospedale di San Paolo in Brasile (Adele Caterino-de-Araujo): Studi sull'infezione da Rhodococcus equi.
- Università Tor Vergata di Roma: Studi sull'infezione da HIV e farmaci antiretrovirali
- Dipartimento di Biochimica e Biologia Molecolare, Università di Bari: Studi sul ruolo delle metalloproteinasi in patologia infettiva, con particolare riguardo all'infezione da HIV
- Istituto Cochin, Parigi: Studio sulle cellule dendritiche
- Emory University of Atlanta (USA): Studi sulla patogenesi dell'infezione da HIV
- ICONA Foundation Study Group, Milano: Studi di coorte su HIV
- Progetto MINGHA sulla trasmissione materno infantile di HIV in una zona rurale del Camerun. Collaborazione con ONG locali e con l'Università di Dschang
- Fondazione Eleonora Lorillard Spencer Cenci, Roma: studi sulle patologie infettive polmonari
- Istituto Superiore di Sanità, Roma: HIV e malattie emergenti

ATTIVITA' ASSISTENZIALE

- 1) 1990-2004: Dirigente Medico di Malattie Infettive presso il Dipartimento di Malattie Infettive e Tropicali dell'Azienda Policlinico Umberto I
- 2) 2004-2017: Direttore UOC di Malattie Infettive, Azienda ASL di Latina
- 3) dal 2017 a tutt'oggi Direttore UOC Malattie Infettive, AOU Policlinico Umberto 1
- 4) Dal 2020 a tutt'oggi Direttore del DAI Medicina Interna, Scienze endocrino-metaboliche e Malattie Infettive

PUBBLICAZIONI SCIENTIFICHE (max 30 su un totale di 300)

A. Peer reviewed publications of NOME COGNOME: selezionate (ultimi 15 anni)

#	Riferimento	Impact Factor
1	di Marzo Veronese F, Arnott D, Barnaba V, Loftus DJ, Sakaguchi K, Thompson CB, Salemi S, Mastroianni C , Sette A, Shabanowitz J, Hunt DF, Appella E. Autoreactive cytotoxic T lymphocytes in human immunodeficiency virus type 1-infected subjects. <i>J Exp Med.</i> 1996;183:2509-16.	14.776
2	Mastroianni CM , Lichtner M, Mengoni F, D'Agostino C, Forcina G, d'Ettorre G, Santopadre P, Vullo V. Improvement in neutrophil and monocyte function during highly active	5.842



- antiretroviral treatment of HIV-1-infected patients.
AIDS. 1999;13:883-90.
- 3 Nicastrì E, Sarmati L, Ercoli L, Mancino G, D'Ambrosio E, d'Ettorre G, **Mastroianni CM**, Vullo V, Andreoni M. 5.842
Reduction of IFN-gamma and IL-2 production by peripheral lymphocytes of HIV-exposed seronegative subjects.
AIDS. 1999;13:1333-6.
 - 4 **Mastroianni CM**, d'Ettorre G, Forcina G, Lichtner M, Mengoni F, D'Agostino C, Corpolongo A, Massetti AP, Vullo V. 10.558
Interleukin-15 enhances neutrophil functional activity in patients with human immunodeficiency virus infection.
Blood. 2000;96:1979-84
 - 5 **Mastroianni CM**, Mengoni F, Lichtner M, D'Agostino C, d'Ettorre G, Forcina G, Marzi M, Russo G, Massetti AP, Vullo V. 6.228
Ex vivo and in vitro effect of human immunodeficiency virus protease inhibitors on neutrophil apoptosis.
J Infect Dis. 2000;182:1536-9.
 - 6 **Mastroianni CM**, d'Ettorre G, Forcina G, Lichtner M, Corpolongo A, Coletta S, Vullo V. 5.842
Rhabdomyolysis after cerivastatin-gemfibrozil therapy in an HIV-infected patient with protease inhibitor-related hyperlipidemia.
AIDS. 2001;15:820-1.
 - 7 d'Ettorre G, Forcina G, Lichtner M, Mengoni F, D'Agostino C, Massetti AP, **Mastroianni CM**, Vullo V. 5.842
Interleukin-15 in HIV infection: immunological and virological interactions in antiretroviral-naive and -treated patients.
AIDS. 2002;16:181-8.
 - 8 D'Ettorre G, Forcina G, Andreotti M, Sarmati L, Palmisano L, Galluzzo CM, Nicastrì E, **Mastroianni CM**, Vullo V, Vella S, Andreoni M. 5.842
Discordant response to antiretroviral therapy: HIV isolation, genotypic mutations, T-cell proliferation and cytokine production.
AIDS. 2002;16:1877-85
 - 9 Liuzzi GM, **Mastroianni CM**, Latronico T, Mengoni F, Fasano A, Lichtner M, Vullo V, Riccio P. 9.230
Anti-HIV drugs decrease the expression of matrix metalloproteinases in astrocytes and microglia.
Brain. 2004;127(Pt 2):398-407.
 - 10 **Mastroianni CM**, d'Ettorre G, Forcina G, Vullo V. 9.533
Teaching tired T cells to fight HIV: time to test IL-15 for immunotherapy?



Trends Immunol. 2004;25:121-5.

- 11 Ciervo A, **Mastroianni CM**, Ajassa C, Pinto A, Ciceroni L. Rapid identification of *Bartonella henselae* by real-time polymerase chain reaction in a patient with cat scratch disease. **2.426**
Diagn Microbiol Infect Dis. 2005;53:75-77.
- 11 d'Ettorre G, **Mastroianni CM**, Massetti AP, Lichtner M, D'Agostino C, Vullo V. Switching from protease inhibitors to a single-class regimen of abacavir/lamivudine/zidovudine plus tenofovir in patients with HIV load suppression. **5.842**
AIDS 2005; 20;19:841-2.
- 12 Lichtner M, Mengoni F, **Mastroianni CM**, Sauzullo I, Rossi R, De Nicola M, Vullo V, Ghibelli L **3.043**
HIV protease inhibitor therapy reverses neutrophil apoptosis in AIDS patients by direct calpain inhibition.
Apoptosis 2006;11:781-787.
- 13 Lichtner M, Rossi R, Mengoni F, Vignoli S, Colacchia B, Massetti AP, Kamga I, Hosmalin A, Vullo V, **Mastroianni CM**. Circulating dendritic cells and interferon-alpha production in patients with tuberculosis: correlation with clinical outcome and treatment response. **3.134**
Clin Exp Immunol. 2006;143:329-337.
- 14 Latronico T, Liuzzi, GM, Riccio P, Lichtner M, Mengoni F, D'Agostino C, Vullo V, **Mastroianni CM**. Antiretroviral therapy inhibits matrix metalloproteinase-9 from blood mononuclear cells of HIV-infected patients. **5.842**
AIDS 2007; 21:677-684.
- 15 Mancini G, Erario L, Gianfreda R, Oliva A, Massetti AP, **Mastroianni CM**, Vullo V. Tuberculosis and *Legionella pneumophila* pneumonia in a patient receiving anti-tumour necrosis factor-alpha (anti-TNF-alpha) treatment. **4.728**
Clin Microbiol Infect. 2007, 13:1036-7.
- 16 Rawson PM, Molette C, Videtta M, Altieri L, Franceschini D, Donato T, Finocchi L, Propato A, Paroli M, Meloni F, **Mastroianni CM**, d'Ettorre G, Sidney J, Sette A, Barnaba V. Cross-presentation of caspase-cleaved apoptotic self antigens in HIV infection. **26.382**
Nat Med. 2007 13:1431-1439.
- 17 **Mastroianni CM**, Liuzzi GM. Matrix metalloproteinase dysregulation in HIV infection: implications for therapeutic strategies. **7.244**
Trends Mol Med. 2007 13:449-459.
- 18 Lichtner M, Rossi R, Rizza MC, Mengoni F, Sauzullo I, Massetti AP, Luzi G, Hosmalin A, **Mastroianni CM**, Vullo V. Plasmacytoid dendritic cells count in antiretroviral-treated patients is predictive of HIV load control independent of CD4+



- T-cell count.
Curr HIV Res. 2008;6:19-27.
- 19 Sauzullo I, Mengoni F, Lichtner M, Rossi R, Massetti AP, **Mastroianni CM**, Vullo V. QuantiFERON-TB Gold and selected region of difference 1 peptide-based assays for the detection of Mycobacterium tuberculosis infection in a cohort of patients enrolled with suspected tuberculosis. **2.426**
Diagn Microbiol Infect Dis. 2008;6:395-40.
- 20 Lichtner M, Cuomo MR, Rossi R, Strano S, Massetti AP, **Mastroianni CM**, Vullo V. Increased carotid intima media thickness is associated with depletion of circulating myeloid dendritic cells in HIV-infected patients on suppressive antiretroviral treatment. **4.522**
Atherosclerosis 2009;204:e1-3.
- 21 Orsi GB, **Mastroianni CM**, Giordano A, Monaco M, Venditti M. Lack of community-associated MRSA in Rome. **3.078**
J Hosp Infect. 2009;7:374-6.
- 22 Sauzullo I, Mengoni F, Lichtner M, Massetti AP, Rossi R, Iannetta M, Marocco R, Del Borgo C, Soscia F, Vullo V, **Mastroianni CM**. In vivo and in vitro effects of antituberculosis treatment on mycobacterial Interferon-gamma T cell response. **4.610**
PLoS One 2009;4:e5187-5296.
- 23 Del Borgo C, Soscia F, **Mastroianni CM**. Case 11-2009: a man with fever, headache, rash, and vomiting. **53.484**
N Engl J Med. 2009;361:312-3.
- 24 D'Agostino C, Lichtner M, **Mastroianni CM**, Ceccarelli G, Iannetta M, Antonucci S, Vullo V, Massetti AP. In Vivo Release of Alpha-Defensins in Plasma, Neutrophils and CD8 T-Lymphocytes of Patients with HIV Infection. **1.923**
Curr HIV Res. 2009;7:650-555.
- 25 Russo G, Lichtner M, Carnevalini M, Mascellino MT, Mengoni F, Oliva A, Miccoli GA, Iannetta M, Trinchieri V, Massetti AP, **Mastroianni CM**, Vullo V. Primary retroperitoneal abscesses due to Rhodococcus equi in a patient with severe nephrotic syndrome: successful antibiotic treatment with linezolid and tigecycline. **2.529**
Int J Infect Dis. 2010;14:e533-5.
- 26 Rossi R, Lichtner M, Sauzullo I, Mengoni F, Marocco R, Massetti AP, **Mastroianni CM**, Vullo V. Downregulation of Leukocyte Migration After Treatment With CCR5 Antagonist Maraviroc. **4.207**
J Acquir Immune Defic Syndr. 2010;54:e13-4.
- 27 Rago A, Lichtner M, Mecarocci S, Marocco R, Cenfra N, Belvisi V, Del Borgo C,



- Cimino G, **Mastroianni CM**. Antiviral treatment including entecavir plus tenofovir disoproxil fumarate for HBV reactivation following a rituximab-based regimen. *Antivir Ther.* 2010;15:929-32. 4.322
- 28** Oliva A, Belvisi V, Iannetta M, Andreoni C, Mascellino MT, Lichtner M, Vullo V, **Mastroianni CM**. Pacemaker lead endocarditis due to multi-drug resistant *Corynebacterium striatum* detected with sonication of the device. *J Clin Microbiol.* 2010 48:4669-71. 4.162
- 29** Lichtner M, **Mastroianni CM**, Rossi R, Russo G, Belvisi V, Marocco R, Mascia C, Del Borgo C, Mengoni F, Sauzullo I, d'Ettorre G, D'Agostino C, Massetti AP, Vullo V. Severe and persistent depletion of circulating plasmacytoid dendritic cells in patients with 2009 pandemic H1N1 infection. *Plos One* 2011; 6:e19872. 4.610
- 30** Sauzullo I, Massetti AP, Mengoni F, Rossi R, Lichtner M, Ajassa C, Vullo V, **Mastroianni CM**. Influence of previous tuberculin skin test on serial IFN- γ release assays. *Tuberculosis* 2011;91:322-6.
- Lichtner M, Mastroianni CM, Rossi R, Russo G, Belvisi V, Marocco R, Mascia C, Del Borgo C, Mengoni F, Sauzullo I, d'Ettorre G, D'Agostino C, Massetti AP, Vullo V.. Severe and Persistent Depletion of Circulating Plasmacytoid Dendritic Cells in Patients with 2009 Pandemic H1N1 Infection. *Plos One* 2011; 6(5):e19872.
- Oliva A, Nguyen BL, Mascellino MT, D'Abramo A, Iannetta M, Ciccaglioni A, Vullo V, Mastroianni CM. Sonication of explanted cardiac implants improves microbial detection in cardiac device infections. *J Clin Microbiol.* 2013 Feb;51(2):496-502.
- Sauzullo I, Mengoni F, Marocco R, Potenza C, Skroza N, Tieghi T, Lichtner M, Vullo V, Mastroianni CM. IFN- γ release assay for tuberculosis in psoriasis patients treated with TNF antagonists: in vivo and in vitro analysis. *Br J Dermatol.* 2013 Aug 2. doi: 10.1111/bjd.12544. [Epub ahead of print].
- Tieghi T, Marocco R, Belvisi V, Del Borgo C, Savinelli S, Lichtner M, Mastroianni CM. *Legionella pneumophila* pneumonia during telaprevir-based triple therapy for HCV chronic hepatitis has now been published in the following paginated issue of *Infection*: Volume 42, Issue 1 (2014), Page 225-226.
- Mastroianni CM, Lichtner M, Mascia C, Zuccalà P, Vullo V. Molecular mechanisms of liver fibrosis in HIV/HCV coinfection. *Int J Mol Sci.* 2014 May 26;15(6):9184-208.
- Sauzullo I, Scivo R, Mengoni F, Ermocida A, Coppola M, Valesini G, Vullo V, Mastroianni CM. Multi-functional flow cytometry analysis of CD4+ T cells as an immune biomarker for latent tuberculosis status in patients treated with tumour necrosis factor (TNF) antagonists. *Clin Exp Immunol.* 2014 Jun;176(3):410-7. 2.650
- Belvisi V, Orsi GB, Del Borgo C, Fabietti P, Ianari A, Albertoni F, Porcelli P, Potenza C,



Mastroianni CM. Large Nosocomial Outbreak Associated with a Norwegian Scabies Index Case Undergoing TNF- α Inhibitor Treatment: Management and Control. *Infect Control Hosp Epidemiol.* 2015 Aug 19:1-3.

Sauzullo I, Vullo V, Mastroianni CM. Detecting latent tuberculosis in compromised patients. *Curr Opin Infect Dis.* 2015 Jun;28(3):275-82.

Salpini R, Colagrossi L, Bellocchi MC, Surdo M, Becker C, Alteri C, Aragri M, Ricciardi A, Armenia D, Pollicita M, Di Santo F, Carioti L, Louzoun Y, Mastroianni CM, Lichtner M, Paoloni M, Esposito M, D'Amore C, Marrone A, Marignani M, Sarrecchia C, Sarmati L, Andreoni M, Angelico M, Verheyen J, Perno CF, Svicher V. Hepatitis B surface antigen genetic elements critical for immune escape correlate with hepatitis B virus reactivation upon immunosuppression. *Hepatology.* 2015 Mar;61(3):823-33.

Latronico T, Pati I, Ciavarella R, Fasano A, Mengoni F, Lichtner M, Vullo V, **Mastroianni CM**, Liuzzi GM. In vitro effect of antiretroviral drugs on cultured primary astrocytes: analysis of neurotoxicity and matrix metalloproteinase inhibition. *J Neurochem.* 2018 Feb;144(3):271-284. doi: 10.1111/jnc.14269. Epub 2018 Jan 9.

Zingaropoli MA, Iannetta M, Pontecorvo S, Anzivino E, Prezioso C, Rodio DM, Morreale M, D'Abramo A, Oliva A, Lichtner M, Cortese A, Frontoni M, Pietropaolo V, Francia A, **Mastroianni CM**, Vullo V, Ciardi MR. JC Virus-DNA Detection Is Associated with CD8 Effector Accumulation in Peripheral Blood of Patients with Multiple Sclerosis under Natalizumab Treatment, Independently from JC Virus Serostatus. *Biomed Res Int.* 2018 Feb 27;2018:5297980. doi: 10.1155/2018/5297980. eCollection 2018.

De Rosa A, Mutters NT, **Mastroianni CM**, Kaiser SJ, Günther F. Distribution of carbapenem resistance mechanisms in clinical isolates of XDR *Pseudomonas aeruginosa*. *Eur J Clin Microbiol Infect Dis.* 2019 Aug;38(8):1547-1552. doi: 10.1007/s10096-019-03585-0. Epub 2019 May 31.

Chiacchio T, Petruccioli E, Vanini V, Cuzzi G, Massafra U, Baldi G, Navarra A, Scrivo R, **Mastroianni C**, Sauzullo I, Esposito C, Palmieri F, Cantini F, Goletti D. Characterization of QuantiFERON-TB-Plus results in latent tuberculosis infected patients with or without immune-mediated inflammatory diseases. *J Infect.* 2019 Jul;79(1):15-23. doi: 10.1016/j.jinf.2019.04.010. Epub 2019 Apr 11.

Goletti D, Navarra A, Petruccioli E, Cimaglia C, Compagno M, Cuzzi G, De Carli G, Fondaco L, Franzetti F, Giannetti A, Gori A, Lapadula G, Lichtner M, **Mastroianni CM**, Mazzotta V, Orchi N, Pavone P, Piacentini D, Pirriatore V, Pontali E, Sarmati L, Spolti A, Tacconelli E,



Galli M, Antinori A, Calcagno A, Girardi E.

Latent tuberculosis infection screening in persons newly-diagnosed with HIV infection in Italy: a multicentre study promoted by the Italian Society of Infectious and Tropical Diseases.

Int J Infect Dis. 2019 Dec 27. pii: S1201-9712(19)30504-1. doi: 10.1016/j.ijid.2019.12.031. [Epub ahead of print]

Luigi Rosa, Maria Stefania Lepanto, Antimo Cutone, Francesca Berlutti, Massimiliano De Angelis BioTimer assay as complementary method to vortex-sonication-vortex technique for the microbiological diagnosis of implant associated infections Vincenzo Vullo, Claudio Maria Mastroianni, Piera Valenti, Alessandra Oliva
Sci Rep. 2019; 9: 7534.

Serena Vita, Paola Zuccalà, Stefano Savinelli, Claudia Mascia, Raffaella Rossi, Francesco Schiavone, Raffaella Marocco, Tiziana Tieghi, Marco Iannetta, Parni Nijhawan, Maria Antonella Zingaropoli, Gabriella d'Ettore, Vincenzo Vullo, Claudio Maria Mastroianni, Miriam Lichtner Impact of IFN-Free and IFN-Based Treatment on Blood Myeloid Dendritic Cell, Monocyte, Slan-DC, and Activated T Lymphocyte Dynamics during HCV Infection J Immunol Res. 2020; 2020: 2781350.

Zingaropoli MA, Nijhawan P, Carraro A, Pasculli P, Zuccalà P, Perri V, Marocco R, Kertusha B, Siccardi G, Del Borgo C, Curtolo A, Ajassa C, Iannetta M, Ciardi MR, Mastroianni CM, Lichtner M. Increased sCD163 and sCD14 Plasmatic Levels and Depletion of Peripheral Blood Pro-Inflammatory Monocytes, Myeloid and Plasmacytoid Dendritic Cells in Patients With Severe COVID-19 Pneumonia. Front Immunol 2021 Feb 26;12:627548. doi: 10.3389/fimmu.2021.627548.

Cogliati Dezza F, Oliva A, Cancelli F, Savelloni G, Valeri S, Mauro V, Calabretto M, Russo G, Venditti M, Turriziani O, Mastroianni CM. Determinants of prolonged viral RNA shedding in hospitalized patients with SARS-CoV-2 infection. Diagn Microbiol Infect D2021 Feb 12;100(2):115347. doi: 10.1016/j.diagmicrobio.2021.115347.

Alhamar G, Maddaloni E, Al Shukry A, Al-Sabah S, Al-Haddad M, Al-Youha S, Jamal M, Almazeedi S, Al-Shammari AA, Abu-Farha M, Abubaker J, Alattar AT, AlOzairi E, Alessandri F, D'Onofrio L, Leto G, Mastroianni CM, Mignogna C, Pascarella G, Pugliese F, Ali H, Al Mulla F, Buzzetti R, Pozzilli P.
Development of a clinical risk score to predict death in patients with COVID-19.
Diabetes Metab Res Rev. 2022 Mar 9:e3526. doi: 10.1002/dmrr.3526.
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LIBRI (max 5)

- 1) *"Malattie Infettive"* di F. Sorice e L. Ortona, Edizioni UTET, Torino, 2000
- 2) *Manuale di Malattie Infettive* di M. Moroni, S. Antinori, V. Vullo, Ed Masson – Elsevier , Milano 2015
- 3) *Le micosi invasive in corso di infezione da HIV* di V. Vullo, C.M. Mastroianni, Carocci Editore, Roma, 2009.