

Marianna Meschiari, MD

CURRICULUM VITAE

CONTACT INFORMATION

Name: Marianna Meschiari

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EDUCATION

- School-leaving examination at "Tassoni" Scientific Liceo in Modena, Italy, passed in July 2002 with full marks
- Graduated in Medicine and Surgery at the University of Modena and Reggio Emilia, Italy, with full marks and honors with a degree thesis entitled "Quantitative and qualitative immunological alteration during CD4-guided treatment interruptions" of July 2008
- June 2015: Infectious Disease Specialist with full marks (Board Certified with a thesis entitled "A multi-faced intervention to fight the spread of carbapenem resistant Klebsiella pneumoniae (CRKP) in an Italian endemic hospital: reduction of CRKP incidence thanks to implemented hand hygiene and antimicrobial stewardship") at Modena and Reggio Emilia University Teaching Hospital, Italy
- In 2013 intensive theoretical-practical course on the strategies of control of Hospital Infection Control, held by Prof. D.Pittet and S.Harbarth - Hôpital Cantonal- Geneve

LICENCE AND CERTIFICATIONS

- February 2009: license to practice medicine in Italy (Albo Medici Chirurghi di Modena n. 6302)

EMPLOYMENT

- Since september 2015-present: physician in the Infectious Diseases Clinic, Modena and Reggio Emilia University Teaching Hospital, Italy

Main activities and responsibilities

- Since 2017 Member of the Emilia Romagna Region working group "PNCAR" for the implementation of the national action plan on AMR
- Since 2015 Active member of the infection control Group and antimicrobial stewardship Group in Azienda Ospedaliero-Universitaria Policlinico di Modena

TEACHING EXPERIENCE AND STUDENT SUPERVISION

- Since september 2015-present: Co-supervisor of medical students, University of Modena and Reggio Emilia, Modena, Italy
- Co-supervisor for thesis dissertation since 2016, University of Modena and Reggio Emilia, Modena, Italy

SCIENTIFIC RESERCHES AS COLLABORATOR

- ISS-T002, "A phase II randomized, open label, immunogenicity and safety trial of the vaccine based on the recombinant biologically active HIV-1 TAT protein in anti-TAT negative HIV-1 infected HAART-treated adult subjects"
- ISS-P002, "A phase I, open label, safety and immunogenicity vaccine trial based on the association of recombinant HIV-1 biologically active TAT and V2-deleted ENV proteins in HIV uninfected healthy adult volunteers"
- PARTNER study, "A study in HIV discordant partnerships to estimate the rate of transmission of HIV and to investigate factors associated with condom use"
- ESBL-PREDICT study, Validation of a clinical prediction rule for third-generation cephalosporin resistant bacteremias
- CAZ AVI Global Access Program
- A Multicenter, Randomized, Open-label Clinical Study of S-649266 or Best Available Therapy for the Treatment of Severe Infections Caused by Carbapenem-resistant Gram-negative Pathogens
- Predictive factors for early and late mortality and evaluation of therapeutic efficacy in patients with *Acinetobacter baumannii* MDR
- Periodic collaboration with Prof.Dr.med Uwe Frank, infection control Department, Freiburg University Hospital
- Thresholds Study Group

PUBLICATIONS IN PEER-REVIEWED SCIENTIFIC PAPERS

- Capetti A, Landonio S, Meraviglia P, Di Biagio A, Lo Caputo S, Sterrantino G, Ammassari A, Menzaghi B, Franzetti M, De Socio GV, Pellicanò G, Mazzotta E, Soria A, Meschiari M, Trezzi M, Sasset L, Celesia BM, Zucchi P, Melzi S, Ricci E, Rizzardini G. 96 Week follow-up of HIV-infected patients in rescue with raltegravir plus optimized backbone regimens: a multicentre Italian experience. *PLoS One*. 2012;7(7):e39222
- Cocchi S, Franceschini E, Meschiari M, Codeluppi M, Rompianesi G, Di Benedetto F, Gerunda GE, Mussini C, Guaraldi G. Aseptic osteonecrosis: a newly diagnosed complication in HIV-infected patients undergoing liver transplantation. *Transplantation*. 2012 Aug 15;94(3):e20-1
- Cossarizza A, Bertoncelli L, Nemes E, Lugli E, Pinti M, Nasi M, De Biasi S, Gibellini L, Montagna JP, Vecchia M, Manzini L, Meschiari M, Borghi V, Guaraldi G, Mussini C. T cell activation but not polyfunctionality after primary HIV infection predicts control of viral load and length of the time without therapy. *PLoS One*. 2012;7(12):e50728

- Capetti A, Meraviglia P, Landonio S, Sterrantino G, Di Biagio A, Lo Caputo S, Ammassari A, Menzaghi B, De Socio GV, Franzetti M, Soria A, Meschiari M, Sasset L, Pellicanò G, Mazzotta E, Trezzi M, Celesia BM, Melzi S, Carezzi L, Ricci E, Rizzardini G. Four years data of raltegravir-based salvage therapy in HIV-1-infected, treatment-experienced patients: the SALIR-E Study. *Int J Antimicrob Agents*. 2014 Feb;43(2):189-94
- A. Bedini, E. Garlassi, C. Stentarelli, S. Petrella, M. Meacci, B. Meccugni, M. Meschairs, E. Franceschini, S. Cerri, A. Brasacchio, F. Rumpianesi, L. Richeldi, C. Mussini “Multidrug-resistant tuberculosis outbreak in an Italian prison: tolerance of pyrazinamide plus levofloxacin prophylaxis and serial interferon-gamma release assays” *New Microbes and New Infections*. 2016.12; 45-51
- A. Bedini, N. De Maria, M. Del Buono, M. Bianchini, M. Mancini, C. Binda, A. Brasacchio, G. Orlando, E. Franceschini, M. Meschiari, A. Sartini, S. Zona, S. Paioli, E. Villa, I. C. Gyssens, C. Mussini. “Antimicrobial Stewardship in a Gastroenterology Department: Impact on Antimicrobial Consumption, Antimicrobial Resistance and Clinical Outcome”. *Digestive and Liver Disease*. 2016 Oct; 48(10):1142-7
- Riva N, Franconi I, Meschiari M, Franceschini E, Puzzolante C, Cuomo G, Bianchi A, Cavalleri F, Genovese M, Mussini C. Acute human herpes virus 7 (HHV-7) encephalitis in an immunocompetent adult patient: a case report and review of literature. *Infection*. 2017 Jun;45(3):385-388
- Sgadari C, Monini P, Tripiciano A, Picconi O, Casabianca A, Orlandi C, Moretti S, Francavilla V, Arancio A, Paniccia G, Campagna M, Bellino S, Meschiari M, Nozza S, Sighinolfi L, Latini A, Muscatello A, Saracino A, Di Pietro M, Galli M, Cafaro A, Magnani M, Ensoli F, Ensoli B. Continued Decay of HIV Proviral DNA Upon Vaccination With HIV-1 Tat of Subjects on Long-Term ART: An 8-Year Follow-Up Study. *Front Immunol*. 2019 Feb; 13(10):233
- Iacopo Franconi, Caterina Monari, Marco Tutone, Giacomo Ciusa, Luca Corradi, Erica Franceschini, Marianna Meschiari, Cinzia Puzzolante, William Gennari, Monica Pecorari, Giovanni Guaraldi, and Cristina Mussini. Pneumocystosis as a complication of H1N1 Influenza A Infection in an HIV-positive Patient on Effective cART. *Open Forum Infect Dis*. 2019 Mar 7; 6(4):ofz105

2020:

- Cossarizza A, Gibellini L, De Biasi S, Lo Tartaro D, Mattioli M, Paolini A, Fidanza L, Bellinazzi C, Borella R, Castaniere I, Meschiari M, Sita M, Manco G, Clini E, Gelmini R, Girardis M, Guaraldi G, Mussini C. Cossarizza A Handling and Processing of Blood Specimens from Patients with COVID-19 for Safe Studies on Cell Phenotype and Cytokine Storm. *Cytometry A*. 2020 Apr
- Guaitoli G, Baldessari C, Maur M, Mussini C, Meschiari M, Barbieri F, Cascinu S, Bertolini F. Guaitoli G. Treating cancer with immunotherapy in HIV-positive patients: A challenging reality. *Crit Rev Oncol Hematol*. 2020 Jan; 145:102836
- Sgadari C, Monini P, Tripiciano A, Picconi O, Casabianca A, Orlandi C, Moretti S, Francavilla V, Arancio A, Paniccia G, Campagna M, Bellino S, **Meschiari M**, Nozza S, Sighinolfi L, Latini A, Muscatello A, Saracino A, Di Pietro M, Galli M, Cafaro A, Magnani M, Ensoli F, Ensoli B. Sgadari C Continued Decay of HIV Proviral DNA Upon Vaccination With HIV-1 Tat of Subjects on Long-Term ART: An 8-Year Follow-Up Study. *Front Immunol*. 2019 Feb 13; 10:233.
- Marietta M, Vandelli P, Mighali P, Vicini R, Coluccio V, D'Amico R; COVID-19 HD Study Group Randomised controlled trial comparing efficacy and safety of high versus low Low-Molecular Weight Heparin dosages in hospitalized patients with severe COVID-19 pneumonia and coagulopathy not requiring invasive mechanical ventilation (COVID-19 HD): a structured summary of a study protocol. *Trials*. 2020 Jun 26;21(1):574.
- Giovanni Guaraldi*, **Marianna Meschiari***, Alessandro Cozzi-Lepri, Jovana Milic, Roberto Tonelli, et al. Tocilizumab in patients with severe COVID-19: a retrospective cohort study. *Lancet Rheumatology* June 24, 2020:2665-9913(20)30173-9
- De Biasi S, **Meschiari M**, Gibellini L, et al. Marked T cell activation, senescence, exhaustion and skewing towards TH17 in patients with COVID-19 pneumonia. *Nat Commun*. 2020 Jul 6;11(1):3434. doi: 10.1038/s41467-020-17292-4.

- Cossarizza A, Gibellini L, De Biasi S, Lo Tartaro D, Mattioli M, Paolini A, Fidanza L, Bellinazzi C, Borella R, Castaniere I, **Meschiari M**, Sita M, Manco G, Clini E, Gelmini R, Girardis M, Guaraldi G, Mussini C. Handling and Processing of Blood Specimens from Patients with COVID-19 for Safe Studies on Cell Phenotype and Cytokine Storm. *Cytometry A*. 2020 Jul;97(7):668-673. doi: 10.1002/cyto.a.24009. Epub 2020 Apr 10.
- Bartoletti M, Giannella M, Scudeller L, Tedeschi S, Rinaldi M, Bussini L, Fornaro G, Pascale R, Pancaldi L, Pasquini Z, Trapani F, Badia L, Campoli C, Tadolini M, Attard L, Puoti M, Merli M, Mussini C, Menozzi M, **Meschiari M**, Codeluppi M, Barchiesi F, Cristini F, Saracino A, Licci A, Rapuano S, Tonetti T, Gaibani P, Ranieri VM, Viale P; PREDICO study group. Development and validation of a prediction model for severe respiratory failure in hospitalized patients with SARS-CoV-2 infection: a multicentre cohort study (PREDI-CO study). *Clin Microbiol Infect*. 2020 Nov;26(11):1545-1553. doi: 10.1016/j.cmi.2020.08.003. Epub 2020 Aug 8.
- COVID-19 RISK and Treatments (CORIST) Collaboration. Use of hydroxychloroquine in hospitalised COVID-19 patients is associated with reduced mortality: Findings from the observational multicentre Italian CORIST study. *Eur J Intern Med*. 2020 Aug 25:S0953-6205(20)30335-6. doi: 10.1016/j.ejim.2020.08.019.
- Busani S, Dall'Ara L, Tonelli R, Clini E, Munari E, Venturelli S, **Meschiari M**, Guaraldi G, Cossarizza A, Ranieri VM, Girardis M. Surfactant replacement might help recovery of low-compliance lung in severe COVID-19 pneumonia. *Ther Adv Respir Dis*. 2020 Jan-Dec;14:1753466620951043. doi: 10.1177/1753466620951043.
- Vacchi C, **Meschiari M**, Milic J, Marietta M, et al. COVID-19-associated vasculitis and thrombotic complications: from pathological findings to multidisciplinary discussion. *Rheumatology (Oxford)*. 2020 Sep 24:keaa581. doi: 10.1093/rheumatology/keaa581.
- Gibellini L, De Biasi S, Paolini A, Borella R, Boraldi F, Mattioli M, Lo Tartaro D, Fidanza L, Caro-Maldonado A, **Meschiari M**, Iadiserchia V, Bacca E, Riva G, Cicchetti L, Quaglino D, Guaraldi G, Busani S, Girardis M, Mussini C, Cossarizza A. Altered bioenergetics and mitochondrial dysfunction of monocytes in patients with COVID-19 pneumonia. *EMBO Mol Med*. 2020 Oct 19:e13001. doi: 10.15252/emmm.202013001.
- Busani S, Bedini A, Biagioni E, Serio L, Tonelli R, **Meschiari M**, et al. Modena Covid-19 Working Group (MoCo19). Two fatal cases of acute liver failure due to HSV-1 infection in COVID-19 patients following immunomodulatory therapies. *Clin Infect Dis*. 2020 Aug 25:ciaa1246. doi: 10.1093/cid/ciaa1246.
- De Biasi S, Lo Tartaro D, **Meschiari M**, Gibellini L, Bellinazzi C, Borella R, Fidanza L, Mattioli M, Paolini A, Gozzi L, Jaacoub D, Faltoni M, Volpi S, Milić J, Sita M, Sarti M, Pucillo C, Girardis M, Guaraldi G, Mussini C, Cossarizza A. Expansion of plasmablasts and loss of memory B cells in peripheral blood from COVID-19 patients with pneumonia. *Eur J Immunol*. 2020 Sep;50(9):1283-1294. doi: 10.1002/eji.202048838.
- Ferrari D, Milic J, Tonelli R, Ghinelli F, **Meschiari M**, et al. Machine learning in predicting respiratory failure in patients with COVID-19 pneumonia—Challenges, strengths, and opportunities in a global health emergency. *PLoS One*. 2020 Nov 12;15(11):e0239172. doi: 10.1371/journal.pone.0239172.
- Santoro A, Franceschini E, **Meschiari M**, Menozzi M, Zona S, Venturelli C, Digaetano M, Rogati C, Guaraldi G, Paul M, Gyssens IC, Mussini C. Epidemiology and Risk Factors Associated With Mortality in Consecutive Patients With Bacterial Bloodstream Infection: Impact of MDR and XDR Bacteria. *Open Forum Infect Dis*. 2020 Sep 30;7(11):ofaa461.
- Vena A, Giacobbe DR, Castaldo N, Cattelan A, Mussini C, Luzzati R, Rosa FG, Del Puente F, Mastroianni CM, Cascio A, Carbonara S, Capone A, Boni S, Sepulcri C, **Meschiari M**, Raumer F, Oliva A, Corcione S, Bassetti M. Clinical Experience with Ceftazidime-Avibactam for the Treatment of Infections due to Multidrug-Resistant Gram-Negative Bacteria Other than Carbapenem-Resistant Enterobacterales. *Antibiotics (Basel)*. 2020 Feb 9;9(2):71.
- Gentile B, Grottola A, Orlando G, Fregni Serpini G, Venturelli C, **Meschiari M**, Anselmo A, Fillo S, Fortunato A, Lista F, Pecorari M, Mussini C. Gentile BA Retrospective Whole-Genome Sequencing Analysis of Carbapenem and Colistin-Resistant *Klebsiella Pneumoniae* Nosocomial Strains Isolated during an MDR Surveillance Program. *Antibiotics (Basel)*. 2020 May 12;9(5):246.

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- Fiorentini C, Bedini A, Mandel VD, Bacca E, Menozzi M, Reggiani C, De Pace B, **Meschiari M**, Santoro A, Franceschini E, Mussini C, Terrenato I, Giacomelli L, Magnoni C. Comparison of two perioperative antibiotic schedules in patients undergoing surgical reconstruction with dermal matrix after excision of skin cancer. *Int Wound J.* 2020 Mar 30.
- Kernis Solen, Lucet Jean-Christophe, Santoro Antonella, **Meschiari Marianna**. Individual and collective impact of Klebsiella pneumoniae carbapenemase (KPC) -producing K.pneumoniae in patients admitted to the intensive care unit. *JAC* 2020 accepted
- Carrara Elena, Conti Michela, **Meschiari Marianna**, Mussini Cristina. The role of Antimicrobial Stewardship in preventing KPC-producing Klebsiella pneumoniae. *JAC* 2020 accepted
- **Meschiari M**, Franconi I, Bacca E, Bianco V, Orlando G, Cuomo G, Bedini A, Mussini C. Ceftazidime/avibactam and ceftolozane/tazobactam for the treatment of extensively drug-resistant Pseudomonas aeruginosa post-neurosurgical infections: three cases and a review of the literature. *Infection.* 2020 Oct 19:1–5. doi: 10.1007/s15010-020-01539-9.
- Franceschini E, Santoro A, Menozzi M, Bacca E, Venturelli C, Zona S, Bedini A, Digaetano M, Puzzolante C, **Meschiari M**, Cuomo G, Orlando G, Sarti M, Guaraldi G, Cozzi-Lepri A, Mussini C. Epidemiology and Outcomes of Bloodstream Infections in HIV-Patients during a 13-Year Period. *Microorganisms.* 2020 Aug 8;8(8):1210. doi: 10.3390/microorganisms8081210.

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Modena, November 28th 2020