

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
- Since 2015 Coordinator of antimicrobial stewardship Group and Active member of the infection control Group and in Azienda Ospedaliero-Universitaria Policlinico di Modena

Main activities and responsibilities

- Since 2017 panel member of the Emilia Romagna Region working group "PNCAR" for the implementation of the national action plan on AMR

- Since 2017 panel member of the Emilia Romagna Region working group for the antibiotic resistance surveillance " Micro-RER "

Scientific Society:

- Since September 2018 Member of Gruppo Italiano di Stewardship antimicrobica (GISA)
- Since September 2018 Member of Italian Society of Infectious and Tropical Diseases (SIMIT)
- Since 2017 Member of ESCMID and since 2020 panel Member of ESCMID Study Group for infectious in the Elderly (ESGIE)

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 RESEARCHES 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 bacteremia
- 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: THReshold Estimation to Help Optimise Local Decisions on antibiotic Stewardship

López-Lozano, JM., Lawes, T., Nebot, C. et al. A nonlinear time-series analysis approach to identify thresholds in associations between population antibiotic use and rates of resistance. *Nat Microbiol* 4, 1160–1172 (2019). <https://doi.org/10.1038/s41564-019-0410-0>

- QUARANTINE study group: QUantifying change in Antibiotic Resistance, ANTibiotic use and INfection control during COVID-19 Epidemics

Awards and Honors:

- Impact of antimicrobial stewardship and infection control programmes on the incidence of carbapenem-resistant *Klebsiella pneumoniae*: a nonlinear time-series analysis: congress awards 30th ECCMID in Paris, 2020
- Impact of antimicrobial stewardship and infection control programmes on the incidence of Carbapenem-resistant *Pseudomonas aeruginosa*: a nonlinear time-series analysis: congress awards SHARE – Sharing Hospital Anti-infective Real-Life Experiences 2019, Napoli.

Research activities and publications

Research activity has focused mainly on the study of viral and bacterial infections in the critically ill patient, antibiotic resistance, infections with multi-resistant microorganisms, antimicrobial stewardship strategies and appropriate use of antibiotics including newly developed ones.

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
- Rodger A. J., Cambiano V., Phillips A. N., Bruun T., Raben D., Lundgren J., Vernazza P., Collins S., Degen O., Corbelli G. M., Estrada V., Geretti A. M., Beloukas A., Beloukas A., Coll P., Antinori A., Nwokolo N., Rieger A., Prins J. M., Blaxhult A., Weber R., Van Eeden A., Brockmeyer N. H., Clarke A., del Romero Guerrero J., Raffi F., Bogner J. R., Wandeler G., Gerstoft J., Gutierrez F., et al. (2019). Risk of HIV transmission through condomless sex in serodifferent gay couples with the HIV-positive partner taking suppressive antiretroviral therapy (PARTNER): final results of a multicentre, prospective, observational study. *THE LANCET*, vol. 393, p. 2428-2438, ISSN: 0140-6736, doi: 10.1016/S0140-6736(19)30418-0
- 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. Meschiari, E. Franceschini, S. Cerri, A. Brasacchio, F. Rompianesi, 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
- Puzzolante, Cinzia, Cuomo, Gianluca, Meschiari, Marianna, Bedini, Andrea, Bonazza, Aurora, Venturelli, Claudia, Sarti, Mario, Mussini, Cristina (2019). Granulicatella adiacens and Abiotrophia defectiva Native Vertebral Osteomyelitis: Three Cases and Literature Review of Clinical Characteristics and Treatment Approach. *CASE REPORT IN INFECTIOUS DISEASES*, vol. 2019, p. 1-8, ISSN: 2090-6625, doi: 10.1155/2019/5038563
- Alfano, Gaetano, Ferrari, Annachiara, Fontana, Francesco, Mori, Giacomo, Ligabue, Giulia, Giovanella, Silvia, Magistroni, Riccardo, Meschiari, Marianna, Franceschini, Erica, Menozzi, Marianna, Cuomo, Gianluca, Orlando, Gabriella, Santoro, Antonella, Di Gaetano, Margherita, Puzzolante, Cinzia, Carli, Federica, Bedini, Andrea, Milic, Jovana, Mussini, Cristina, Cappelli, Gianni, Guaraldi, Giovanni (2021). Twenty-four-hour serum creatinine variation is associated with poor outcome in the novel coronavirus disease 2019 (COVID-19) patients. *KIDNEY RESEARCH AND CLINICAL PRACTICE*, vol. 40, p. 231-240, ISSN: 2211-9132, doi: 10.23876/j.krcp.20.177
- Rodger A. J., Cambiano V., Phillips A. N., Bruun T., Raben D., Lundgren J., Vernazza P., Collins S., Degen O., Corbelli G. M., Estrada V., Geretti A. M., Beloukas A., Beloukas A., Coll P., Antinori A., Nwokolo N., Rieger A., Prins J. M., Blaxhult A., Weber R., Van Eeden A., Brockmeyer N. H., Clarke A., del Romero Guerrero J., Raffi F., Bogner J. R., Wandeler G., Gerstoft J., Gutierrez F., et al. (2019). Risk of HIV transmission through condomless sex in serodifferent gay couples with the HIV-positive partner taking suppressive antiretroviral therapy (PARTNER): final results of a multicentre, prospective, observational study. *THE LANCET*, vol. 393, p. 2428-2438, ISSN: 0140-6736, doi: 10.1016/S0140-6736(19)30418-0

2020:

- 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
- 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
- Bassetti M, Vena A, Giacobbe DR, Falcone M, Tiseo G, Giannella M, Pascale R, **Meschiari M**, Digaetano M, Oliva A, Rovelli C, Carannante N, Losito AR, Carbonara S, Mariani MF, Mastroianni A, Angarano G, Tumbarello M, Tascini C, Grossi P, Mastroianni CM, Mussini C, Viale P, Menichetti F, Viscoli C, Russo A. Ceftolozane/Tazobactam for Treatment of Severe ESBL-Producing Enterobacterales Infections: A Multicenter Nationwide Clinical Experience (CEFTABUSE II Study). *Open Forum Infect Dis*. 2020 Apr 21;7(5):ofaa139
- 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. Fiorentini 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.
- **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.
- Alfano G, Ferrari A, Fontana F, Perrone R, Mori G, Ascione E, Magistrone R, Venturi G, Pederzoli S, Margiotta G, Romeo M, Piccinini F, Franceschi G, Volpi S, Faltoni M, Ciusa G, Bacca E, Tutone M, Raimondi A, Menozzi M, Franceschini E, Cuomo G, Orlando G, Santoro A, Di Gaetano M, Puzzolante C, Carli F, Bedini A, Milic J, **Meschiari M**, Mussini C, Cappelli G, Guaraldi G; Modena Covid-19 Working Group (MoCo19). Hypokalemia in Patients with COVID-19. *Clin Exp Nephrol*. 2021 Apr;25(4):401-409. doi: 10.1007/s10157-020-01996-4. Epub 2021 Jan 4. PMID: 33398605; PMCID: PMC7781399.
- Guaraldi G, **Meschiari M***, Milic J, Cozzi-Lepri A, Mussini C. Tocilizumab for severe COVID-19 pneumonia - Authors' reply. *Lancet Rheumatol*. 2020 Nov;2(11):e660-e661. doi: 10.1016/S2665-9913(20)30285-X. Epub 2020 Aug 17. PMID: 32838326; PMCID: PMC7431126.

2021:

- Di Castelnuovo A, Costanzo S, ...**Meschiari M**, Milic J..., Iacoviello L. Heparin in COVID-19 Patients Is Associated with Reduced In-Hospital Mortality: the Multicenter Italian CORIST Study. *Thromb Haemost*. 2021 Jan 7. doi: 10.1055/a-1347-6070. Epub ahead of print. PMID: 33412596.
- Mussini C, Falcone M, Nozza S, Sagnelli C, Parrella R, **Meschiari M**, Tavio M; Italian Society of Infectious and Tropical Diseases. Therapeutic strategies for severe COVID-19: a position paper from the Italian Society of Infectious and Tropical Diseases (SIMIT). *Clin Microbiol Infect*. 2021 Mar;27(3):389-395. doi: 10.1016/j.cmi.2020.12.011. Epub 2021 Jan 18. PMID: 33359375; PMCID: PMC7833273.
- Mussini C, Cozzi-Lepri A, Menozzi M, **Meschiari M**, Modena Covid-19 Working Group (MoCo19); Office of information and communication technologies of Policlinico di Modena. Better prognosis in females with severe COVID-19 pneumonia: possible role of inflammation as potential mediator. *Clin Microbiol Infect*. 2021 Jan 20:S1198-743X(20)30765-5. doi: 10.1016/j.cmi.2020.12.010. Epub ahead of print. PMID: 33359539; PMCID: PMC7816626.
- Capriotti V, Mattioli F, Guida F, Marcuzzo AV, Lo Manto A, Martone A, Molinari G, Fabbris C, Menegaldo A, Calvanese L, Latini G, Cingolani C, Gradoni P, Boscolo Nata F, De Sisti C, Selle V, Leone G, Indelicato P, Pilloli F,

- Mevio N, Roncoroni L, Papi S, **Meschiari M**, Tominz R, D'Ascanio L, Dragonetti A, Torelli L, Trenti L, Spinato G, Boscolo-Rizzo P, Bussi M, Cossarizza A, Presutti L, Tirelli G. COVID-19 in the tonsillectomised population. *Acta Otorhinolaryngol Ital.* 2021 May 6. doi: 10.14639/0392-100X-N1436. Epub ahead of print. PMID: 33970896.
- Busani S, Roat E, Tosi M, Biagioni E, Coloretti I, **Meschiari M**, Gelmini R, Brugioni L, De Biasi S, Girardis M. Adjunctive Immunotherapy With Polyclonal Ig-M Enriched Immunoglobulins for Septic Shock: From Bench to Bedside. The Rationale for a Personalized Treatment Protocol. *Front Med (Lausanne).* 2021 Feb 18;8:616511. doi: 10.3389/fmed.2021.616511. PMID: 33681248; PMCID: PMC7930614.
 - 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. doi: 10.1371/journal.pone.0050728. Epub 2012 Dec 7. PMID: 23236388; PMCID: PMC3517542.
 - Grasselli G, Scaravilli V, Mangioni D, Scudeller L, Alagna L, Bartoletti M, **Meschiari M**, Messina A, Monti G, Morelli P, Muscatello A, Redaelli S, Stefanini F, Tonetti T, Antonelli M, Cecconi M, Foti G, Fumagalli R, Girardis M, Ranieri M, Viale P, Raviglione M, Pesenti A, Gori A, Bandera A. Hospital-Acquired Infections in Critically Ill Patients With COVID-19. *Chest.* 2021 Apr 20:S0012-3692(21)00679-6. doi: 10.1016/j.chest.2021.04.002. Epub ahead of print. PMID: 33857475; PMCID: PMC8056844.
 - Tumbarello M, Raffaelli F, Giannella M, **Meschiari M**, Shbaklo N, Spanu T, Cauda R, Viale P. Ceftazidime-avibactam use for KPC-Kp infections: a retrospective observational multicenter study. *Clin Infect Dis.* 2021 Feb 22:ciab176. doi: 10.1093/cid/ciab176. Epub ahead of print. PMID: 33618353.
 - **Meschiari M**, Kaleci S, Orlando G, Selmi S, Santoro A, Bacca E, Menozzi M, Franceschini E, Puzzolante C, Bedini A, Sarti M, Venturelli C, Vecchi E, Mussini C. Risk factors for nosocomial rectal colonization with carbapenem-resistant *Acinetobacter baumannii* in hospital: a matched case-control study. *Antimicrob Resist Infect Control.* 2021 Apr 8;10(1):69. doi: 10.1186/s13756-021-00919-6. PMID: 33832538; PMCID: PMC8028794.
 - Carrara E, Conti M, **Meschiari M**, Mussini C. The role of antimicrobial stewardship in preventing KPC-producing *Klebsiella pneumoniae*. *J Antimicrob Chemother.* 2021 Jan 29;76(Supplement_1):i12-i18. doi: 10.1093/jac/dkaa493. PMID: 33534879.
 - Kernéis S, Lucet JC, Santoro A, **Meschiari M**. Individual and collective impact of *Klebsiella pneumoniae* carbapenemase (KPC)-producing *K. pneumoniae* in patients admitted to the ICU. *J Antimicrob Chemother.* 2021 Jan 29;76(Supplement_1):i19-i26. doi: 10.1093/jac/dkaa494. PMID: 33534878.
 - Mussini C, Cozzi-Lepri A, Menozzi M, **Meschiari M**, Franceschini E, Guaraldi G. Development and validation of a prediction model for tocilizumab failure in hospitalized patients with SARS-CoV-2 infection. *PLoS One.* 2021 Feb 23;16(2):e0247275. doi: 10.1371/journal.pone.0247275. PMID: 33621264; PMCID: PMC7901750.
 - Milic J, Novella A, **Meschiari M**, Menozzi M, Santoro A, Bedini A, Cuomo G, Franceschini E, Digaetano M, Carli F, Ciusa G, Volpi S, Bacca E, Franceschi G, Yaacoub D, Rogati C, Tutone M, Burastero G, Faltoni M, Iadisernia V, Dolci G, Cossarizza A, Mussini C, Pasina L, Guaraldi G. Darunavir/Cobicistat Is Associated with Negative Outcomes in HIV-Negative Patients with Severe COVID-19 Pneumonia. *AIDS Res Hum Retroviruses.* 2021 Apr;37(4):283-291. doi: 10.1089/AID.2020.0305. PMID: 33619997
 - Guaraldi G, Banchelli F, Milic J, Dolci G, Massari M, Corsini R, **Meschiari M**, Girardis M, Busani S, Cossarizza A, Salvarani C, Mussini C, D'Amico R. Methylprednisolone as rescue therapy after tocilizumab failure in patients with severe COVID-19 pneumonia. *Clin Exp Rheumatol.* 2021 Mar 3. Epub ahead of print. PMID: 33666158.
 - Cozzi-Lepri A, Guaraldi G, **Meschiari M**, Mussini C. Re: Methodological evaluation of bias in observational COVID-19 studies on drug. *Clin Microbiol Infect.* 2021 May 6:S1198-743X(21)00214-7. doi: 10.1016/j.cmi.2021.04.026. Epub ahead of print. PMID: 33964408; PMCID: PMC8099537.
 - Alfano G, Fontana F, Mori G, Giaroni F, Ferrari A, Giovannella S, Ligabue G, Ascione E, Cazzato S, Ballestri M, Di Gaetano M, **Meschiari M**, Menozzi M, Milic J, Andrea B, Franceschini E, Cuomo G, Magistroni R, Mussini C,

Cappelli G, Guaraldi G; Modena Covid-19 Working Group (MoCo19). Acid base disorders in patients with COVID-19. *Int Urol Nephrol*. 2021 Jun 11;1–6. doi: 10.1007/s11255-021-02855-1.

- Gagliotti C, Bolzoni L, Carretto E, Sarti M, Ricchizzi E, Ambretti S, Barozzi A, Bracchi C, Confalonieri M, Menozzi I, Morganti M, Pedna MF, Sambri V, Scaltriti E, Schiavo R, Soliani L, Tambassi M, Venturelli C, Biagetti C, Buttazzi R, Calderaro A, Casadio C, **Meschiari M**, Tumietto F, Diegoli G, Pongolini S, Moro ML. Reduction trend of mcr-1 circulation in Emilia-Romagna Region, Italy. *Eur J Clin Microbiol Infect Dis*. 2021 Aug 5.
- De Biasi S, Tartaro DL, Gibellini L, Paolini A, Quong A, Petes C, Awong G, Douglas S, Lin D, Nieto J, Galassi FM, Borella R, Fidanza L, Mattioli M, Leone C, Neri I, **Meschiari M**, Cicchetti L, Iannone A, Trenti T, Sarti M, Girardis M, Guaraldi G, Mussini C, Facchinetti F, Cossarizza A. Endogenous control of inflammation characterizes pregnant women with asymptomatic or paucisymptomatic SARS-CoV-2 infection. *Nat Commun*. 2021 Jul 29;12(1):4677.
- Cozzi-Lepri A, Guaraldi G, **Meschiari M**, Mussini C. Re: 'Methodological evaluation of bias in observational COVID-19 studies on drug effectiveness' by Wolkewitz et al. *Clin Microbiol Infect*. 2021 Jul;27(7):1043-1044. doi: 10.1016/j.cmi.2021.04.026.
- Coloretti I, Busani S, Biagioni E, Venturelli S, Munari E, Sita M, DallAra L, Tosi M, Clini E, Tonelli R, Fantini R, Mussini C, **Meschiari M**, Guaraldi G, Cossarizza A, Alfano G, Girardis M. Effects of cytokine blocking agents on hospital mortality in patients admitted to ICU with acute respiratory distress syndrome by SARS-CoV-2 infection: retrospective cohort study. *Multidiscip Respir Med*. 2021 May 17;16(1):737.
- Milic J, Banchelli F, **Meschiari M**, Franceschini E, Ciusa G, Gozzi L, Volpi S, Faltoni M, Franceschi G, Iadisernia V, Yaacoub D, Dolci G, Bacca E, Rogati C, Tutone M, Burastero G, Raimondi A, Menozzi M, Cuomo G, Corradi L, Orlando G, Santoro A, Digaetano M, Puzzolante C, Carli F, Bedini A, Busani S, Girardis M, Cossarizza A, Miglio R, Mussini C, Guaraldi G, D'Amico R. The impact of tocilizumab on respiratory support states transition and clinical outcomes in COVID-19 patients. A Markov model multi-state study. *PLoS One*. 2021 Aug 12;16(8):e0251378. doi: 10.1371/journal.pone.0251378.
- Bacca E., Digaetano M., Meschiari M., Franceschini E., Menozzi M., Cuomo G., Mussini C. (2021). Immunomodulation for the management of severe SARS-CoV2 infections. State of the art and review of the literature. *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*, vol. 538, p. 151-155, ISSN: 0006-291X, doi: 10.1016/j.bbrc.2020.11.084
- Guaraldi G., Borghi V., Milic J., Carli F., Cuomo G., Menozzi M., Santoro A., Orlando G., Puzzolante C., Meschiari M., Franceschini E., Bedini A., Ferrari F., Gennari W., Sarti M., Mussini C. (2021). The Impact of COVID-19 on UNAIDS 90-90-90 Targets: Calls for New HIV Care Models. *OPEN FORUM INFECTIOUS DISEASES*, vol. 8, p. 1-4, ISSN: 2328-8957, doi: 10.1093/ofid/ofab283
- **Meschiari M**, Lòpez-Lozano JM, Di Pilato V, Gimenez-Esparza C, Vecchi E, Bacca E, Orlando G, Franceschini E, Sarti M, Pecorari M, Grottola A, Venturelli C, Busani S, Serio L, Girardis M, Rossolini GM, Gyssens IC, Monnet DL, Mussini C. A five-component infection control bundle to permanently eliminate a carbapenem-resistant *Acinetobacter baumannii* spreading in an intensive care unit. *Antimicrob Resist Infect Control*. 2021 Aug 19;10(1):123.
- **Meschiari, M.**; Orlando, G.; Kaleci, S.; Bianco, V.; Sarti, M.; Venturelli, C.; Mussini, C. Combined resistance to Ceftolozane-tazobactam and Ceftazidime-avibactam in extensively drug resistant (XDR) and multi drug resistant (MDR) *Pseudomonas aeruginosa*: resistance predictors and impact on clinical outcomes besides implications for antimicrobial stewardship programs. *Antibiotics* 2021, 9, x.
- Meschiari M, Cozzi-Lepri A, Tonelli R, Bacca E, Menozzi M, Franceschini E, Cuomo G, Bedini A, Volpi S, Milic J, Brugioni L, Romagnoli E, Pietrangelo A, Corradini E, Coloretti I, Biagioni E, Busani S, Girardis M, Cossarizza A, Clini E, Guaraldi G, Mussini C; Modena COVID-19 Working Group (MoCo19). First and second waves among hospitalised patients with COVID-19 with severe pneumonia: a comparison of 28-day mortality over the 1-year pandemic in a tertiary university hospital in Italy. *BMJ Open*. 2022 Jan 3;12(1):e054069. doi: 10.1136/bmjopen-2021-054069. PMID: 34980623; PMCID: PMC8724593.

- Meschiari M, Volpi S, Faltoni M, Dolci G, Orlando G, Franceschini E, Menozzi M, Sarti M, Del Fabro G, Fumarola B, Guarneri F, Lanza P, Lorenzotti S, Sacconi B, Signorini L, Van Hauwermeiren E, Gatti M, Pea F, Castelli F, Mussini C. Real-life experience with compassionate use of cefiderocol for difficult-to-treat resistant *Pseudomonas aeruginosa*(DTR-P) infections. JAC Antimicrob Resist. 2021 Dec 11;3(4):dlab188. doi: 10.1093/jacamr/dlab188. PMID: 34909691; PMCID: PMC8665210.

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-Special Issue "Carbapenem-Resistant Organisms (CRO) as Leading Cause of Hospital Associated Infections"

- Special Issue "Antimicrobial Use and Stewardship during the COVID-19 Era"

The undersigned authorizes the handling of personal data in accordance with Law 196/2003 on privacy.

Modena, February 2th 2022

