



Federica Anna Maria Giardina

Date of birth: 24/07/1992

Nationality: Italian

Gender: Female

CONTACT

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WORK EXPERIENCE

05/04/2017 – 30/06/2017

● Voluntary Attendance

Molecular Virology Unit , Fondazione IRCCS Policlinico San Matteo, Pavia

Pavia, Italy

01/07/2017 – 30/06/2020

● Research Fellowship

Molecular Virology Unit , Fondazione IRCCS Policlinico San Matteo, Pavia

Titolare di una Borsa di Studio per attività di Ricerca dal titolo "Sviluppo di saggi molecolari innovativi per la diagnosi delle infezioni virali".

Le attività relative al progetto comprendono esperimenti di Biologia molecolare come l'estrazione di acidi nucleici da campioni biologici, amplificazione genica mediante PCR, real time-PCR o tecnologia LAMP, sequenziamento genico con metodo Sanger.

Pavia, Italy

01/08/2020 – CURRENT – Pavia

● Freelance Professional Researcher

Molecular Virology Unit , Fondazione IRCCS Policlinico San Matteo, Pavia

Titolo del Progetto: Antibody therapy against Coronavirus (COVID 2019) - ATAC

EDUCATION AND TRAINING

04/10/2021 – CURRENT

● PhD Genetic, Molecular and Cellular Biology

University of Pavia

01/2018 – CURRENT – Pavia, Italy

● Microbiology and Virology Specialization School

University of Pavia

Specialization School aims to train Specialists in Bacteriology, Virology, Mycology and Parasitology with theoretical and practical lessons.

07/2017 – Pavia, Italy

● State Examination-Biologist

University of Pavia

14/10/2014 – 23/02/2017 – Pavia, Italy

● Master's Degree – Sperimental and Applied Biology

University of Pavia

16/09/2011 – 20/11/2014 – Pavia, Italy

● **Bachelor's Degree – Biological Sciences**

University of Pavia

09/2006 – 07/2011 – Canicattì, Italy

● **High School Diploma**

Liceo Scientifico "A. Sciascia"

Mathematics, Physics, Chemistry, Biology

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

OTHER LANGUAGE(S):

English

Listening
B1

Reading
C1

**Spoken
production**
B1

**Spoken
interaction**
B1

Writing
B1

French

Listening
A1

Reading
A1

**Spoken
production**
A1

**Spoken
interaction**
A1

Writing
A1

PUBLICATIONS

Publications (2018)

- Piralla A, Principi N, Ruggiero L, Girello A, **Giardina F**, De Sando E, Caimmi S, Bianchini S, Marseglia GL, Lunghi G, Baldanti F, Esposito S. Enterovirus D68 (EV-D68) in pediatric patients with respiratory infection: the circulation of a new B3 clade in Italy. *Journal of Clinical Virology*, 2018 Feb-Mar; 99-100:91-96.
- Piralla A, **Giardina F**, Rovida F, Campanini G, Baldanti F. Cellular DNA quantification in respiratory samples for the normalization of viral load: a real need? *Journal of Clinical Virology*, 2018 Oct; 107:6-10.

Publications (2019)

- Rovida F, Brianese N, Piralla A, Sarasini A, Girello A, **Giardina F**, Cassaniti I, Fornabaio C, Seminari E, Monteverdi A, Piro A, Baggieri M, Cereda D, Pan A, Magurano F, Baldanti F. Outbreak of measles genotype H1 in Northern Italy originated from a case imported from Southeast Asia, 2017. *Clinical microbiology and infection*, 2019 Apr;25(4):526-528-
- Pellegrinelli L, **Giardina F**, Lunghi G, Uceda Renteria SC, Greco L, Fratini A, Galli C, Piralla A, Binda S, Pariani E, Baldanti F. Emergence of divergent enterovirus (EV) D68 sub-clade D1 strains, Northern Italy, September to October 2018. *Euro Surveillance*, 2019 Feb;24(7).
- Piralla A, Pariani E, **Giardina F**, Galli C, Sapia D, Pellegrinelli L, Novazzi F, Anselmi G, Rovida F, Mojoli F, Cereda D, Senatore S, Baldanti F. Molecular Characterization of Influenza Strains in Patients Admitted to Intensive Care Units during the 2017-2018 Season. *International Journal of Molecular Sciences*. 2019;20(11): 2664. Published 2019 May 30.
- Piralla A, Perniciaro S, Ossola S, **Giardina F**, De Carli A, Bossi A, Agosti M, Baldanti F. Human parechovirus type 5 neurological infection in a neonate with a favourable outcome: A case report. *International Journal of Infectious Diseases*. 2019;89:175-178.

Publications (2020)

- Rovida F, Nepita EV, **Giardina F**, Piralla A, Campanini G, Baldanti F. Rotavirus molecular epidemiology in hospitalized patients, Northern Italy, 2015-2018. *New Microbiologica*. 2020;43(1):1-5.
- Cassaniti I, Novazzi F, **Giardina F**, Salinaro F, Sachs M, Perlini S, Bruno R, Mojoli F, Baldanti F, San Matteo Pavia COVID-19 Task Force. Performance of VivaDiag COVID-19 IgM/IgG Rapid Test is inadequate for diagnosis of COVID-19 in acute patients referring to emergency room department [published online ahead of print, 2020 Mar 30]. *Journal of Medical Virology*. 2020;10.1002/jmv.25800.
- Bordi L, Piralla A, Lalle E, **Giardina F**, Colavita F, Tallarita M, Sberna G, Novazzi F, Meschi S, Castilletti C, Brisci A, Minnucci G, Tettamanzi V, Baldanti F, Capobianchi MR. Rapid and sensitive detection of SARS-CoV-2 RNA using the Simplexa™ COVID-19 direct assay [published online ahead of print, 2020 May 4]. *Journal of Clinical Virology*. 2020;128:104416.
- Colaneri M, Seminari E, Piralla A, Zuccaro V, Di Filippo A, Baldanti F, Bruno R, Mondelli MU, San Matteo Pavia COVID-19 Task Force. Lack of SARS-CoV-2 RNA environmental contamination in a tertiary referral hospital for infectious diseases in Northern Italy [published online ahead of print, 2020 Mar 19]. *Journal of Hospital Infection*. 2020;S0195-6701(20)30117-1.

- Seminari E, Colaneri M, Sambo M, Gallazzi I, Di Matteo A, Roda S, Bruno R, San Matteo Pavia COVID-19 Task Force. SARS Cov-2 infection in a renal-transplanted patient: A case report [published online ahead of print, 2020 Apr 3]. *American Journal of Transplantation*. 2020;10.1111/ajt.15902.

Publications (2020)

- Colaneri M, Sacchi P, Zuccaro V, Biscarini S, Sachs M, Roda S, Pieri TC, Valsecchi P, Piralla A, Seminari E, Di Matteo A, Novati S, Maiocchi L, Pagnucco L, Tirani M, Baldanti F, Mojoli F, Perlini S, Bruno R, San Matteo Pavia COVID-19 Task Force. Clinical characteristics of coronavirus disease (COVID-19) early findings from a teaching hospital in Pavia, North Italy, 21 to 28 February 2020. *Euro Surveill*. 2020;25(16):2000460.
- Colaneri M, Seminari E, Novati S, Asperges E, Biscarini S, Piralla A, Percivalle E, Cassaniti I, Baldanti F, Bruno R, Mondelli MU; COVID19 IRCCS San Matteo Pavia Task Force; ID Staff; ID Residents; Emergency Care Unit: ECU Staff; ECU Residents; Intensive Care Unit; Paediatric Unit; Virology Staff; Virology Technical staff; Virology Residents; Research Laboratories, Division of Infectious Diseases and Immunology; Pharmacy Unit; Hospital Management; Data Unit. SARS-CoV-2 RNA contamination of inanimate surfaces and virus viability in a health care emergency unit. *Clinical Microbiology and Infection*. 2020 May 22:S1198-743X(20)30286-X.
- Asperges E, Novati S, Muzzi A, Biscarini S, Sciarra M, Lupi M, Sambo M, Gallazzi I, Peverini M, Lago P, Mojoli F, Perlini S, Bruno R; COVID-19 IRCCS San Matteo Pavia Task Force. Rapid response to COVID-19 outbreak in Northern Italy: how to convert a classic infectious disease ward into a COVID-19 response centre. *Journal of Hospital Infection*. 2020 Mar 20:S0195-6701(20)30119-5.
- Perlini S, Canevari F, Cortesi S, Sgromo V, Brancaglione A, Contri E, Pettenazza P, Salinaro F, Speciale F, Sechi G, Mare C, Cutti S, Novelli V, Marena C, Muzzi A, Bruno R, Palo A; COVID19 IRCCS San Matteo Pavia Task Force. Emergency Department and Out-of-Hospital Emergency System (112-AREU 118) integrated response to Coronavirus Disease 2019 in a Northern Italy centre. *Internal and Emergency Medicine*. 2020 Jun 8:1-9.

Publications (2020)

- Colaneri M, Bogliolo L, Valsecchi P, Sacchi P, Zuccaro V, Brandolino F, Montecucco C, Mojoli F, Giusti EM, Bruno R, The Covid Irccs San Matteo Pavia Task Force. Tocilizumab for Treatment of Severe COVID-19 Patients: Preliminary Results from SMAtteo COvid19 REgistry (SMACORE). *Microorganisms*. 2020 May 9;8(5):E695.
- Rovida F, Cereda D, Novati S, Licari A, Triarico A, Marseglia GL, Bruno R, Baldanti F; San Matteo Pavia COVID-19 Task Force The San Matteo Pavia COVID-19 Task Force consisted of: ECU Staff Emergency Care Unit; ECU Resident Emergency Care Unit; Intensive Care Unit; Pediatric Unit; Virology Staff; Virology Technical staff; Virology Resident; Pharmacy Unit; Hospital Management. Low risk for SARS-CoV2 symptomatic infection and early complications in pediatric patients during the ongoing CoVID19 epidemics in Lombardy. *Clin Microbiol Infect*. 2020 Jun 11:S1198-743X(20)30346-3. doi: 10.1016/j.cmi.2020.06.006. Epub ahead of print. PMID: 32535148; PMCID: PMC7289743.
- Piralla A, Pellegrinelli L, **Giardina F**, Galli C, Binda S, Pariani E, Baldanti F. Contribution of Enteroviruses to Acute Central Nervous System or Systemic Infections in Northern Italy (2015-2017): Is It Time to Establish a National Laboratory-Based Surveillance System? *Biomed Res Int*. 2020 Jul 1;2020:9393264.

Publications (2021)

- Alteri C, Cento V, Piralla A, Costabile V, Tallarita M, Colagrossi L, Renica S, **Giardina F**, Novazzi F, Gaiarsa S, Matarazzo E, Antonello M, Vismara C, Fumagalli R, Epis OM, Puoti M, Perno CF, Baldanti F. Genomic epidemiology of SARS-CoV-2 reveals multiple lineages and early spread of SARS-CoV-2 infections in Lombardy, Italy. *Nat Commun.* 2021 Jan 19;12(1):434. doi: 10.1038/s41467-020-20688-x. PMID: 33469026; PMCID: PMC7815831.
- Paolucci S, Cassaniti I, Novazzi F, Fiorina L, Piralla A, Comolli G, Bruno R, Maserati R, Gulminetti R, Novati S, Mojoli F, Baldanti F; San Matteo Pavia COVID-19 Task Force. EBV DNA increase in COVID-19 patients with impaired lymphocyte subpopulation count. *Int J Infect Dis.* 2021 Mar;104:315-319. doi: 10.1016/j.ijid.2020.12.051. Epub 2020 Dec 21. PMID: 33359064; PMCID: PMC7833117.
- De Gasparo R, Pedotti M, Simonelli L, Nickl P, Muecksch F, Cassaniti I, Percivalle E, Lorenzi JCC, Mazzola F, Magrì D, Michalcikova T, Haviernik J, Honig V, Mrazkova B, Polakova N, Fortova A, Tureckova J, Iatsiuk V, Di Girolamo S, Palus M, Zudova D, Bednar P, Bukova I, Bianchini F, Mehn D, Nencka R, Strakova P, Pavlis O, Rozman J, Gioria S, Sammartino JC, **Giardina F**, Gaiarsa S, Pan-Hammarström Q, Barnes CO, Bjorkman PJ, Calzolari L, Piralla A, Baldanti F, Nussenzweig MC, Bieniasz PD, Hatzioannou T, Prochazka J, Sedlacek R, Robbiani DF, Ruzek D, Varani L. Bispecific IgG neutralizes SARS-CoV-2 variants and prevents escape in mice. *Nature.* 2021 May;593(7859):424-428. doi: 10.1038/s41586-021-03461-y. Epub 2021 Mar 25. Erratum in: *Nature.* 2021 Sep;597(7874):E2. PMID: 33767445.
- De Gasparo R, Pedotti M, Simonelli L, Nickl P, Muecksch F, Cassaniti I, Percivalle E, Lorenzi JCC, Mazzola F, Magrì D, Michalcikova T, Haviernik J, Honig V, Mrazkova B, Polakova N, Fortova A, Tureckova J, Iatsiuk V, Girolamo SD, Palus M, Zudova D, Bednar P, Bukova I, Bianchini F, Mehn D, Nencka R, Strakova P, Pavlis O, Rozman J, Gioria S, Camilla Sammartino J, **Giardina F**, Gaiarsa S, Hammarström QP, Barnes CO, Bjorkman PJ, Calzolari L, Piralla A, Baldanti F, Nussenzweig MC, Bieniasz PD, Hatzioannou T, Prochazka J, Sedlacek R, Robbiani DF, Ruzek D, Varani L. Bispecific antibody neutralizes circulating SARS-CoV-2 variants, prevents escape and protects mice from disease. *bioRxiv [Preprint].* 2021 Mar 5:2021.01.22.427567. doi: 10.1101/2021.01.22.427567. PMID: 33501434; PMCID: PMC7836104.
- **Giardina F**, Galli C, Pellegrinelli L, Paolucci S, Tallarita M, Pariani E, Piralla A, Baldanti F. No evidence of SARS-CoV-2 circulation in the framework of influenza surveillance between October 2019 and February 2020 in Lombardy, Italy. *Travel Med Infect Dis.* 2021 Mar-Apr;40:102002. doi: 10.1016/j.tmaid.2021.102002. Epub 2021 Feb 26. PMID: 33647467; PMCID: PMC7988398.

Publications (2021)

- Rovida F, Cassaniti I, Paolucci S, Percivalle E, Sarasini A, Piralla A, **Giardina F**, Sammartino JC, Ferrari A, Bergami F, Muzzi A, Novelli V, Meloni A, Cutti S, Grugnetti AM, Grugnetti G, Rona C, Daglio M, Marena C, Triarico A, Lilleri D, Baldanti F. SARS-CoV-2 vaccine breakthrough infections with the alpha variant are asymptomatic or mildly symptomatic among health care workers. *Nat Commun.* 2021 Oct 15;12(1):6032. doi: 10.1038/s41467-021-26154-6. PMID: 34654808; PMCID: PMC8521593.

CONFERENCES AND SEMINARS

Conferences (2017)

June 25-28th, 2017, Milano: **Congresso Nazione SIV-ISV.**

Poster n.1: Influenza A virus NS1 protein's variability during the period 2009-2016.

F. Giardina, G. Campanini, A. Piralla, F. Baldanti

Poster n.2: Outbreak of measles genotype H1 in Northern Italy originated from a case imported from South-East Asia, 2017.

F. Rovida, N. Brianese, A. Piralla, A. Sarasini, A. Girello, **F. Giardina**, C. Fornabaio, E. Seminari, A. Monteverdi, A. Piro, A. Pan, D. Cereda, M. Gramegna, F. Magurano, F. Baldanti.

September 13-16th, 2017, Stresa: **20th ESCV Congress 2017**

Poster n.1 : Q-LAMP assay for detection of Polyomavirus BK.

F. Giardina, F. Genco, G. Campanini, V. Meroni, F. Baldanti.

Poster n.2: Evaluation of cellular load in respiratory samples for the normalization of viral load.

A. Piralla, **F. Giardina**, F. Rovida, G. Campanini, S. Castriciano, F. Baldanti.

Poster n.3: EV-D68 in pediatric patients with a respiratory syndrome: the circulation of a new B3 clade in Italy.

A. Piralla, N. Principi, L. Ruggiero, A. Girello, **F. Giardina**, E. De Sando, G.L. Marseglia, S. Esposito, F. Baldanti.

Presentazione orale: Multiple measles outbreaks sustained by different genotypes in Lombardy region during an ongoing epidemic involving Italy since January 2017.

F. Rovida, A. Piralla, A. Sarasini, A. Girello, **F. Giardina**, F. Baldanti.

October 20th-21st, 2017, Desenzano del Garda: **5th Italian experience in biomedical research: young minds at work.**

Presentazione Orale: Influenza A virus NS1 protein's variability during the period 2009-2016.

F. Giardina, G. Campanini, A. Piralla, F. Baldanti

Conferences (2018)

April 21st-24th, 2018, Madrid: **28th European Congress of Clinical Microbiology and Infectious Diseases.**

Presentazione orale: Multiple measles outbreaks in Lombardy Region during an ongoing epidemic involving Italy in 2017.

F. Rovida, A. Piralla, A. Sarasini, A. Girello, **F. Giardina**, M. Premoli, F. Baldanti.

September 23rd-26th, 2018, Atene: **21st ESCV Congress 2018.**

Poster: Molecular analysis of Measles F protein to identify molecular signature associated with neurological infection.

A. Piralla, **F. Giardina**, F. Rovida, A. Fratini, F. Baldanti.

November 10-13th, 2018, Rimini: **XLVII Congresso Nazionale AMCLI**

Poster: Quantificazione del DNA cellulare in campioni respiratori per la normalizzazione della carica virale: reale necessità?

F. Giardina, A. Piralla, F. Rovida, G. Campanini, F. Baldanti.

Conferences (2019)

April 13-16th, 2019, Amsterdam: **29th European Congress of Clinical Microbiology and Infectious Diseases.**

Poster: Comparative evaluation of a laboratory-developed real-time PCR assay and Respiratory Viral ELITE MGB Panel for quantitative detection of influenza A/B and respiratory syncytial viruses.

F. Giardina, A. Piralla, A. Fratini, D. Sapia, F. Novazzi, F. Rovida, F. Baldanti.

September 11-14th, 2019, Copenhagen: **22nd ESCV Congress 2019.**

Presentazione orale: Molecular epidemiology of Rhinoviruses/Enteroviruses and their role on cause severe and prolonged infections among hospitalized patients.

F. Giardina, A. Piralla, A. Fratini, F. Novazzi, F. Rovida, F. Baldanti.

November 9-12th, 2019, Rimini: **XLVIII Congresso Nazionale AMCLI.**

Poster: Molecular epidemiology of Rhinoviruses/Enteroviruses ad their role on cause severe and prolonged infection among hospitalized patients.

F. Giardina, A. Piralla, A. Fratini, F. Novazzi, F. Rovida, F. Baldanti.

COMMUNICATION AND INTERPERSONAL SKILLS



Communication and interpersonal skills

Good communication and teamwork skills

WORKSHOP



Workshop

June 24-25th, 2019, Valencia: 2nd ESCV Workshop on Next Generation Sequencing in Clinical Virology.