
EVA PIANO MORTARI

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Birth: 19/01/1985

PROFESSIONAL SUMMARY

I'm extremely motivated. During my studies I successfully changed different research area and always obtained strong results and published in several peer-reviewed journal. I'm extremely organized and independent. I speak and write fluently English and I have an excellent level of oral and written French.

SKILLS

- Team Collaboration
- Staff Leadership
- Well Organized
- Published author
- Quick learner
- Oral communication
- RNAseq
- ELISA
- Single Cell RNASeq
- Immunology
- Cellular biology
- Molecular biology
- FACS (FlowJo software)
- Immunofluorescence
- Statistical analysis
- ELISpot
- Next Generation Sequencing
- Antibody Sequencing

WORK HISTORY

Faculty, 09/2018 to Current
Temple University – Roma, Italy
Teacher of the contemporary biology course

Organizing committee, 09/2020 to Current
Immunology Journal Club – Roma, Italy

Postdoctoral Researcher, 01/2015 to Current
Ospedale Pediatrico Bambino Gesù – Roma, Italy
Discover the role of EPG5, a protein involved in the autophagy pathway, in the signalling from the TLRs and in the development and maintenance of memory B cells.
Study the cellular and molecular characterization of transitional and memory B cells derived from haematopoietic stem cells of cord blood, bone marrow or peripheral blood isolated from transplanted patients. Discover two types of memory B cells based on the level of CD27 expression. Study the immune system during SARS-CoV-2 infection and the difference between asymptomatic, mild and severe disease.

PhD Student, 12/2011 to 12/2014
Ospedale Pediatrico Bambino Gesù – Roma, Italy
Investigate the role of memory B cells and their development both in healthy children and in those with immune deficiencies or born without spleen. The results of this research have been presented at conferences and published, as of 2014. The most significant among these investigations, still under study, is the identification, within IgM memory B cells population of three subtypes with different developmental pathway.

Fellowship, 12/2010 to 11/2011
Istituto di Scienze e Tecnologie della Cognizione (CNR) – Roma, Italy
Investigate factors affecting the learning of abstract concepts in nonhuman primates. Study the cognitive, decision-making and learning processes in capuchin monkeys (*Sapajus spp.*). These researched led to some publications and presentations to congress from 2010 to 2016.

EDUCATION

P.h.D: Immunology, 2014
Università di Roma La Sapienza – Roma, Italy

Qualification of the profession of Biologist: Biology
Università di Roma Tor Vergata – Roma, Italy

Master Degree: Neurobiology, 2010
Università di Roma La Sapienza – Roma, Italy

Bachelor Degree: Biotechnology, 2007
Università degli Studi di Milano – Milano, Italy

PUBLICATION

- 1) Truppa, V., Garofoli, D., Castorina, G., Piano Mortari, E., Natale, F. & Visalberghi, E. *Identity concept learning in matching-to-sample tasks by tufted capuchin monkeys (Cebus apella)*. **Animal Cognition**. 2010 Nov;13(6):835-48. doi: 10.1007/s10071-010-0332-y.
- 2) Truppa V., Piano Mortari E., Garofoli D., Privitera S. & Visalberghi, E. *Same/different concept learning by capuchin monkeys in matching-to-sample tasks*. **PLoS ONE** 2011;6(8):e23809. doi: 10.1371/journal.pone.0023809.
- 3) Truppa V., De Simone D., Piano Mortari E., De Lillo C. *Effects of brief time delays on matching-to-sample abilities in capuchin monkeys (Sapajus spp.)*. **Behavioural Brain Research** 2014 Sep 1;271:240-8. doi: 10.1016/j.bbr.2014.05.0236.
- 4) Truppa V., Spinozzi G., Laganà T., Piano Mortari E., Sabbatini G. *Versatile grasping ability in power grip actions by tufted capuchin monkeys (Sapajus spp.)*. **American Journal of Physical Anthropology** 2016 Jan;159(1):63-72. doi: 10.1002/ajpa.22836.
- 5) Truppa V., Spinozzi G., Laganà T., Piano Mortari E., Sabbatini G. *Flexible power-grip use by capuchin monkeys (Sapajus spp.): from the study of object manipulation to the links between cognition and action*. "Sistemi intelligenti" 1/2016, pp. 69-82, doi: 10.1422/83836.
- 6) Marasco E., Farroni C., Cascioli S., Marcellini V., Scarsella M., Giorda E., Piano Mortari E., Leonardi L., Scarselli A., Valentini D., Cancrini C., Duse M., Grimsholm O., Carsetti R. *B-cell activation with CD40L with CD40L or CpG measures the function of B-cell subsets and identifies specific defects in patients with immunodeficiency*. **European Journal of Immunology** . doi: 10.1002/eji.201646574.
- 7) Aranburu A.*, Piano Mortari E.*, Anwar B., Giorda E., Cantarutti N., Corbelli S., De Vito R., Inserra A., Carsetti R. *Human B-cell memory is shaped by age- and tissue-specific T-independent and GC-dependent events*. **European Journal of Immunology**. doi: 10.1002/eji.201646642. *co-first author.
- 8) Piano Mortari E., Anwar B., Cantarutti N., Bocci C., Adorisio R., Carsetti R. *Heterotaxy Syndrome with and without spleen: different infection risk and management*. **Journal of Allergy and Clinical Immunology**. doi: 10.1016/j.jaci.2016.10.014.
- 9) Piano Mortari E.*, Folgiero V.*, Marcellini V., Romania P., Bellacchio E., D'Alicandro V., Bocci C., Carrozzo R., Martinelli D., Petrini S., Axiotis E., Farroni C., Locatelli F., Schara U., Pilz D., Jungbluth H., Dionisi-Vici C. and Carsetti R. *The Vici syndrome protein EPG5 regulates intracellular nucleic acid trafficking linking autophagy to innate and adaptive immunity*. **Autophagy**. Doi: 10.1080/15548627.2017.1389356*. co-first author.
- 10) Marcellini, V.*, Piano Mortari*, E., Fedele, G., Gesualdo, F., Pandolfi, E., Midulla, F., Stefanelli, P., Tozzi, AE., The Pertussis Study Group, Carsetti, R. *Protection against Pertussis in Humans Correlates to Elevated Serum Antibodies and Memory B Cells*. **Frontiers in Immunology**. Doi:10.3389/fimmu.2017.01158. *co-first author.
- 11) Baban A., Cantarutti N., Adorisio R., Lombardi R., Calcagni G., Piano Mortari E., Francesco P., Iorio F.S., Digilio M.C., Giannico S., Drago F., Carotti A. *Long Term Survival and Phenotypic Spectrum in Children with Heterotaxy Syndrome: a 25 Year Follow Up Analysis*. **International Journal of Cardiology**. Doi: 10.1016/j.ijcard.2018.02.05
- 12) Rosado MM., Aranburu A., Scarsella M., Cascioli G., Giorda E., Del Chierico F., Levi Mortera S., Piano Mortari E., Petrini S., Putignani L., Carsetti R. *Spleen Development Is*

Modulated By Neonatal Gut Microbiota. Immunology Letters. Doi: 10.1016/j.imlet.2018.04.010

13) Piano Mortari E., Bocci C., Carsetti R. *Regolazione epigenetica della risposta immunitaria. Immunologia e allergologia pediatrica – II edizione Pacini editore.*

14) Carsetti Rita, Di Sabatino Antonio, Rosado Maria Manuela, Cascioli Simona, Piano Mortari Eva, Milito Cinzia, Grimsholm Ola, Aranburu Alaitz, Giorda Ezio, Tinozzi Francesco Paolo, Pulvirenti Federica, Donato Giuseppe, Morini Francesco, Bagolan Pietro, Corazza Gino Roberto, Quinti Isabella. *Lack of Gut Secretory Immunoglobulin A in Memory B-Cell Dysfunction-Associated Disorders: A Possible Gut-Spleen Axis. Frontiers in Immunology. doi: 10.3389/fimmu.2019.02937*

15) Grimsholm O.*, Piano Mortari E.*, Davydov A.N., Shugay M., Obratsova A.S., Bocci C., Marasco E., Marcellini V., Aranburu A., Farroni C., Silvestris D.A., Cristofolletti C., Giorda E., Scarsella M., Cascioli S., Barresi S., Lougaris V., Plebani A., Cancrini C., Finocchi A., Moschese V., Valentini D., Vallone C., Signore F., de Vincentiis G., Zaffina S., Russo G., Gallo A., Locatelli F., Tozzi A.E., Tartaglia M., Chudakov D.M., Carsetti R., “*The interplay between CD27dull and CD27bright B cells ensures the flexibility, stability and resilience of human B-cell memory*”, *Cell Reports*, **P2963-2977.E6**, doi:10.1016/j.celrep.2020.02.022. *co-first author

16) Cifaldi C., Cotugno N., Di Cesare S., Giliani S., Di Matteo G., Amodio D., Piano Mortari E., Chiriaco M., Buonsenso D., Zangari P., Pagliara D., Gaspari S., Carsetti R., Palma P., Finocchi A., Locatelli F., Rossi P., Doria M., Cancrini C., “*Partial T cell defects and expanded CD56bright NK cells in a SCID patient carrying hypomorphic mutation in the IL2RG gene*”, *Journal of Leukocyte Biology*, doi:10.1002/jlb.5ma0220-239r.

17) Carsetti R., Quintarelli C., Quinti I., Piano Mortari E., Zumla A., Ippolito G., Locatelli F. “*The immune system of children: the key to understanding SARS-CoV-2 susceptibility?*” *Lancet Child Adolesc Health*. doi:10.1016/S2352-4642(20)30135-8.

18) Bozzola E., Carsetti R., Piano Mortari E., Masci M., Spina G., Villani, A. “*The link between varicella and immune system: which children will develop acute cerebellitis?*” *Italian journal of pediatrics*, doi.org:10.1186/s13052-020-00840-5.

19) Carsetti R., Zaffina S., Piano Mortari E., Terreri S., Corrente F., Capponi C., Palomba P., Mirabella M., Cascioli S., Palange P., Cuccaro I., Milito C., Zumla A., Maeurer M., Camisa V., Vinci M.R., Santoro A., Cimini E., Marchioni L., Nicastrì E., Palmieri F., Agrati C., Ippolito G., Porzio O., Concato C., Onetti Muda A., Raponi M., Quintarelli C., Quinti I., Locatelli F. “*Different innate and adaptive immune response to SARS-CoV-2 infection of asymptomatic, mild and severe cases*”. *Frontiers in Immunology*, doi: 10.3389/fimmu.2020.610300.

20) Colucci M., Piano Mortari E., Zotta F., Corrente F., Concato C., Carsetti R., Emma F., Vivarelli M. “*Evaluation of immune competence in steroid-sensitive nephrotic syndrome pediatric patients*”. *Frontiers in Immunology*, doi: 10.3389/fimmu.2021.602826.

21) Cinicola B., Conti MG, Terrin G., Sgrulletti M., Elfeky R., Carsetti R., Fernandez Salinas A., Piano Mortari E., Brindisi G., De Curtis M., Zicari AM, Moschese V., Duse M. “*The protective role of maternal immunization in early life*”. *Frontiers in Pediatrics*, doi:10.3389/fped.2021.638871.

21) Quinti I., Piano Mortari E., Romania P. Milito C., Carsetti R. “*IgA antibodies and IgA Deficiency in SARS-CoV-2 infection*”. *Frontiers Cellular and Infection Microbiology*, doi: 10.3389/fcimb.2021.655896.