



## Eva Piano Mortari

**Nationality:** Italian

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**Date of birth:** 19/01/1985

**Gender:** Female

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**Address:** Via Riccardo Zandonai 75, 00135 ROMA (Italy)

### WORK EXPERIENCE

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#### Fellowship

**Istituto di Scienze e Tecnologie della Cognizione (CNR)** [ 01/12/2010 – 01/11/2011 ]

City: Roma

Country: 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.

#### PhD

**Bambino Gesù Children Hospital** [ 01/12/2011 – 01/12/2014 ]

City: Roma

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.

#### PostDoc Researcher

**Bambino Gesù Children Hospital** [ 01/01/2015 – Current ]

City: Roma

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. Evaluating the response to anti-COVID19 vaccine (Pfizer) in health care Workers and in immune compromised patients.

#### Teacher

**Temple University** [ 01/09/2018 – 20/01/2022 ]

City: Roma

Teacher of the course of Contemporary Biology

## EDUCATION AND TRAINING

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### **Bachelor Degree in Veterinary Biotechnologies**

*Università degli Studi di Milano* [ 01/09/2003 – 01/07/2007 ]

Address: Via Festa del Perdono, 7, 20122 Milano (Italy)

### **Master Degree in Neurobiology**

*Università di Roma La Sapienza* [ 01/09/2007 – 11/06/2010 ]

Address: Piazzale Aldo Moro, 5, 00185 Roma

### **Qualification of the profession of Biologist**

*Università di Roma Tor Vergata* [ 01/07/2013 ]

Address: Via della Ricerca Scientifica, 1, 00133 Roma (Italy)

### **PhD in Scienze Immunologiche, Ematologiche e Reumatologiche**

*Dipartimento di Medicina molecolare - Università di Roma La Sapienza* [ 01/12/2011 – 30/01/2015 ]

Address: Viale del Policlinico, 155, 00185 Roma (Italy)

## LANGUAGE SKILLS

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Mother tongue(s): **Italian** | **French**

Other language(s):

### **English**

**LISTENING B2 READING C1 WRITING B2**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

## DIGITAL SKILLS

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Microsoft Word / Microsoft Powerpoint / Google Drive / Outlook / Zoom / Microsoft Excel / Graph pad / R Scripts / Good listener and communicator / Team-work oriented / Google Docs / Molecular and Cellular Biology / RT qPCR, PCR / FlowJo program / Flow Cytometry Analysis (FACS) / Antibodies / Enzyme-Linked Immunosorbent Assay (ELISA)

## PUBLICATIONS

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### **Persistent B-cell memory after SARS-CoV-2 vaccination is functional during breakthrough infections**

[2022]

Cell Host & Microbes, doi.org/10.1016/j.chom.2022.01.003

\*first name

### **COVID-19 associated multisystem inflammatory syndrome in a neonate with atypical coronary artery involvement**

[2022]

American Journal of Perinatology, doi: 10.1055/a-1733-4163

### **Identification of a novel mutation in TNFAIP3 in a family with poly-autoimmunity**

[2022]

Frontiers in Immunology, doi.org/10.3389/fimmu.2022.804401

**Highly-specific memory B cells generation after the 2nd dose of BNT162b2 vaccine compensate for the decline of serum antibodies and absence of mucosal IgA.**

[2021]

Cells, doi: 10.3390/cells10102541

\*first name

**SARS-CoV-2 Vaccine Induced Atypical Immune Responses in Antibody Defects: everybody does their best.**

[2021]

Journal of Clinical Immunology. doi: 10.1007/s10875-021-01133-0.

**Severe Acute Respiratory Syndrome Coronavirus 2 Monoclonal Antibody Combination Therapy in Patients With Coronavirus Disease 2019 and Primary Antibody Deficiency**

[2021]

The Journal of Infectious Diseases, doi: 10.1093/infdis/jiab554

**IgA antibodies and IgA Deficiency in SARS-CoV-2 infection**

[2021]

Frontiers Cellular and Infection Microbiology, doi: 10.3389/fcimb.2021.655896.

**B cell response induced by SARS-CoV-2 infection is boosted by the BNT162b2 vaccine in Primary Antibody Deficiencies.**

[2021]

Cells, doi: 10.3390/cells10112915.

**The protective role of maternal immunization in early life**

[2021]

Frontiers in Pediatrics, doi:10.3389/fped.2021.638871.

**Evaluation of immune competence in steroid-sensitive nephrotic syndrome pediatric patients**

[2021]

Frontiers in Immunology, doi: 10.3389/fimmu.2021.602826.

**Comprehensive phenotyping of human peripheral blood B lymphocytes in pathological conditions.**

[2021]

Cytometry. doi: 10.1002/cyto.a.24518.

\*last name

**Evolution of human memory B cells from childhood to old age**

[2021]

Frontiers in Immunology. doi: 10.3389/fimmu.2021.690534.

\*last name

**Immune response in neonates born to SARS-CoV-2 infected mothers.**

[2021]

JAMA Open Network. doi:10.1001/jamanetworkopen.2021.32563

**Comprehensive phenotyping of human peripheral blood B lymphocytes in healthy conditions.**

[2021]

Cytometry. doi: 10.1002/cyto.a.24507.

\*last name

**Induction of immune response after SARS-CoV-2 mRNA BNT162b2 vaccination in healthcare workers**

[2021]

Journal of Virus Eradication, doi: 10.1016/j.jve.2021.100046.

**Impaired memory B cells response to Pfizer-BioNTech COVID-19 vaccine in Common Variable immunodeficiency patients.**

[2021]

Journal of Allergy and Clinical Immunology. doi: 10.1016/j.jaci.2021.08.031

**The interplay between CD27dull and CD27bright B cells ensures the flexibility, stability and resilience of human B-cell memory**

[2020]

Cell Reports, P2963-2977.E6, doi:10.1016/j.celrep.2020.02.022

\*first name

**Partial T cell defects and expanded CD56bright NK cells in a SCID patient carrying hypomorphic mutation in the IL2RG gene**

[2020]

Journal of Leukocyte Biology, doi:10.1002/jlb.5ma0220-239r.

**The immune system of children: the key to understanding SARS-CoV-2 susceptibility?**

[2020]

Lancet Child Adolesc Health. doi:10.1016/S2352-4642(20)30135-8.

**Different innate and adaptive immune response to SARS-CoV-2 infection of asymptomatic, mild and severe cases**

[2020]

Frontiers in Immunology, doi: 10.3389/fimmu.2020.610300.

**Lack of Gut Secretory Immunoglobulin A in Memory B-Cell Dysfunction-Associated Disorders: A Possible Gut-Spleen Axis.**

[2019]

Frontiers in Immunology. doi: 10.3389/fimmu.2019.02937

**Spleen Development Is Modulated By Neonatal Gut Microbiota.**

[2018]

Immunology Letters. Doi: 10.1016/j.imlet.2018.04.010

**Long Term Survival and Phenotypic Spectrum in Children with Heterotaxy Syndrome: a 25 Year Follow Up Analysis.**

[2018]

International Journal of Cardiology. Doi: 10.1016/j.ijcard.2018.02.05

**Human B-cell memory is shaped by age- and tissue-specific T-independent and GC-dependent events.**

[2017]

European Journal of Immunology. doi: 10.1002/eji.201646642.

\*first name

**B-cell activation with CD40L with CD40L or CpG measures the function of B-cell subsets and identifies specific defects in patients with immunodeficiency.**

[2017]

European Journal of Immunology . doi: 10.1002/eji.201646574.

**Heterotaxy Syndrome with and without spleen: different infection risk and management.**

[2017]

Journal of Allergy and Clinical Immunology. doi: 10.1016/j.jaci.2016.10.014.

\*first name

**The Vici syndrome protein EPG5 regulates intracellular nucleic acid trafficking linking autophagy to innate and adaptive immunity.**

[2017]

Autophagy. Doi: 10.1080/15548627.2017.1389356

\*first name

**Protection against Pertussis in Humans Correlates to Elevated Serum Antibodies and Memory B Cells.**

[2017]

Frontiers in Immunology. Doi:10.3389/fimmu.2017.01158

\*first name

**Versatile grasping ability in power grip actions by tufted capuchin monkeys (*Sapajus* spp.).**

[2016]

American Journal of Physical Anthropology. doi: 10.1002/ajpa.22836.

**Effects of brief time delays on matching-to-sample abilities in capuchin monkeys (*Sapajus* spp.).**

[2014]

Behavioural Brain Research. doi: 10.1016/j.bbr.2014.05.0236.

**Same/different concept learning by capuchin monkeys in matching-to-sample tasks.**

[2011]

PLoS ONE. doi: 10.1371/journal.pone.0023809.

**Identity concept learning in matching-to-sample tasks by tufted capuchin monkeys (*Cebus apella*).**

[2010]

Animal Cognition. doi: 10.1007/s10071-010-0332-y

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*hereby declare that the details and information given above are complete and true to the best of my knowledge*

21/02/2022



Eva Piano Mortari