

CURRICULUM VITAE

Personal details

Name: Susanna ESPOSITO, MD

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Place/date of birth: Milan/5 September 1971.

Languages: Italian (mother tongue); English (very good); Spanish (fair).

Current position

- Associate Professor in Pediatrics (scientific/disciplinary sector MED/38: General and specialised pediatrics) at the Faculty of Medicine and Surgery of the University of Milan, Italy (since October 1, 2005).
- Director of Pediatric Highly Intensive Care Unit of Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy (since November 30, 2010).
- Eligibility as Full Professor in Pediatrics (since February 5, 2014).

Degree in Medicine and Surgery

27 July 1995, University of Milan (110/110 *cum laude*).

Post-graduate degrees

Pediatrics (1999), Post-graduate School of Pediatrics, University of Milan.

Infectious Diseases (2006), Post-graduate School of Infectious Diseases, University of Milan.

Post-graduate awards

- The "Carlo Imperato" prize, awarded by the President of the Italian Society of Pediatrics at its 58th National Congress (Montecatini, 28 September-2 October 2002) for the best experimental work on childhood respiratory diseases.
- Young Investigator Award, given by the Chairman of the III World Congress of Pediatric Infectious Diseases (Santiago, Chile, 19-23 November 2002) for a paper entitled "Minimum protective serum concentrations of pneumococcal anti-capsular antibodies against pneumonia".
- George McCracken Fellowship, received at the 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) (Chicago, Illinois, 14-17 September 2003).
- Young Scientist Grant, awarded by the Chairman of the Options for the Control of Influenza V (Okinawa, Japan, 7-11 October 2003).
- Amici di Milano Prize – Gold Medals, with the Targa d'Argento of the President of the Italian Republic and the Targa d'Argento of the President of the Lombardy Region, awarded by the Mayor of Milan on 24 March 2004 for medical research.
- Italian Society of Pediatrics (SIP) Members' Prize 2008 for the best pediatrics researcher, awarded at the 64th Congress (Genoa, 15 October 2008).
- Award for international affairs (Milan Ambassador Programme) from Milan city on 20 May, 2011.
- Award for scientific publications by Associazione Amici del Policlinico (November 27, 2014).

Teaching

Participation in the teaching of General and Specialist Paediatrics for the University of Milan's Faculty of Medicine and Surgery:

- since academic year 1999-2000, I have collaborated in practical exercises, guided students in the preparation and discussion of their graduate theses, and participated as co-supervisor in the awarding of degrees;
- since academic year 2000-2001, in addition to the above, I have given lessons and been involved in tutorials (exercises, seminars, case discussions), and been a member of Examination Boards;
- since academic year 2002-2003, I have performed all the above activities as Permanent Researcher in Paediatrics;
- since academic year 2003-2004, I have been in charge for teaching "Antibiotic therapy in Paediatrics";
- since academic year 2004-2005, I have performed all the above activities as Associate Professor of Paediatrics;
- since academic year 2006-2007, I have been in charge for teaching "Emergency in Paediatrics";
- from academic year 2007-2008 to 2010-2011, I have been in charge for teaching Pediatrics at the Faculty of Medicine and Surgery, University of Milan (Polo Centrale, linea H);
- since academic year 2012-2012, I have been in charge for teaching Pediatrics at the Faculty of Medicine and Surgery, University of Milan (Polo Humanitas).

Teaching activities in the Post-graduate School of Paediatrics of the University of Milan's Faculty of Medicine and Surgery:

- academic year 2000-2001: tutorial activities;
- academic year 2001-2002: contract Professor;
- academic years 2002-2003 and 2003-2004: as Permanent Researcher in Paediatrics I have been involved in lessons, tutorials (exercises, seminars, case discussions), and been a member of Examination Boards;
- since academic year 2004-2005, I have performed all the above activities as Associate Professor of Paediatrics and I am in charge for teaching "Paediatric Infectious Diseases & Immunology".

Teaching activities in PhD courses of the University of Milan's Faculty of Medicine and Surgery:

- academic years 2010-2014: tutorial activities for PhD students in Infectious Diseases;
- since academic year 2010-2011: tutorial activities for PhD students in Genetics;
- since academic year 2013-2014: Professor at PhD course in Epidemiology, Environment and Public Health.

Other teaching activities:

- since academic year 2003-2004: in charge for teaching General and Specialist Paediatrics for the University of Milan's Faculty of Orthoptic;
- since academic year 2011-2012: Director of the Post-graduate School in Emergency and Urgency in Pediatric Age for the University of Milan's Faculty of Medicine and Surgery;

- since academic year 2012-2013: Director of the Post-graduate School in Neonatal and Pediatric Ecography for the University of Milan's Faculty of Medicine and Surgery;
- since academic year 2006-2007: Professor at Master in Pediatric Infectious Diseases, University of Oxford, UK;
- March 2007: invited Professor at the Pediatric Infectious Diseases Division of the Southwestern Medical Center, University Hospital and Clinic, a Dallas, TX, USA;
- February 2008: invited Professor at the University Hospital in Geneva (Geneva, Switzerland);
- February 2009 and February 2012: invited Professor at the Pediatric Infectious Diseases Division of St George's Hospital, London, UK;
- August 2014: Committee for the nomination of Researchers in Pediatrics, University of Geneva, Switzerland;
- November 2014: invited Professor at the Virology Department, University of Groningen, The Netherlands;
- since academic year 2015-2016: Professor of Pediatrics in the Post-graduate School of Pediatric Surgery of the University of Milan's Faculty of Medicine and Surgery;
- since academic year 2015-2016: Professor of Pediatrics in the Post-graduate School of Thoracic Surgery of the University of Milan's Faculty of Medicine and Surgery

Healthcare activities

- November 1995 – October 1999: Post-graduate specialisation at Paediatric Department IV of the University of Milan, Milan, Italy;
- Novembre 1999 – March 2000: University medical intern at Paediatric Department IV of the University of Milan, Milan, Italy;
- March 2000 – November 2000: Alternate Level I Medical Manager at Paediatric Department IV of *Ospedale L. Sacco*, Milan, Italy;
- November 2000 – December 2000: Nominated Level I Medical Manager at Paediatric Department IV of *Ospedale L. Sacco*, Milan, Italy;
- December 2000 – July 2001: Nominated Level I Medical Manager at Paediatric Clinic I of the *Istituti Clinici di Perfezionamento*, Milan, Italy;
- August 2001 – December 2002: Permanent Level I Medical Manager at Paediatric Clinic I of the *Istituti Clinici di Perfezionamento*, Milan, Italy;
- December 2002 – January 2005: Permanent Researcher in Paediatrics at the Institute of Paediatrics of the *University of Milan*, Milan with activity of Medical Manager and Consultant of Infectious Diseases at Paediatric Clinic I of the *Istituti Clinici di Perfezionamento*, Milan, Italy;
- Since February 2005: Chief of the Pediatric HIV Clinic of Regione Lombardia at Paediatric Clinic I of the Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.
- Since May 2005: Chief of the outpatient clinic for travel medicine at Paediatric Clinic I of the Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.
- Since October 2005: Associate Professor in Paediatrics at the Pediatric Clinic I of the of the Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.
- July 2006-November 2010: Vice-Director at Paediatric Clinic I of the Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.

- Since December 2007: Head of the Pediatric Infectious Diseases Operating Unit of the Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.
- Since December 2010: Director at Pediatric Highly Intensive Care Unit of the Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.
- Since January 2011: Chief of the Lyme disease Center of Regione Lombardia at Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.
- Since February 2012: Coordinator of the Epidermolysis Bullosa Center at Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.

Activities in international bodies

- Paediatric representative in “Share – The IAS educational program on HIV clinical care” (1999-2002).
- Member of the Board of the European Society of Paediatric Infectious Diseases (ESPID) (2004-2007).
- Member of the Committee for Training of the European Society of Paediatric Infectious Diseases (ESPID) (2007-2013).
- Member of the ESCMID Sore throat Guidelines group (2007-2011).
- Member of the ECDC Working Group on Pneumococcal Vaccination (since 2009).
- President of the Committee of the World Health Organization for eradication of measles and rubella (since 2012).
- Chair of ESCMID Vaccine Study Group (EVASG) (since 2013).
- President of the World Association for Infectious Diseases and Immunological Disorders (WAidid) (since 2014).
- Member of the Global Pneumonia Prevention Coalition (since December, 2015).

Activities in national bodies

- Member of the Steering Committee of the Italian Society of Paediatric Infectious Diseases (2002-2005).
- Member of the Steering Committee of the Italian Society of Paediatrics – Section of Lombardy Region (2003-2006).
- Member of the Steering Committee on Vaccines of the Italian Society of Allergy and Immunology (since 2004).
- Thesaurer of the Italian Society of Paediatric Infectious Diseases (2005-2008).
- Secretariat of the Steering Committee on Anti-infective therapy of the Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy (since 2005).
- Member of the Steering Committee on Prevention and Control of Hospital Infection of the Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy (since 2005).
- Member of the Steering Committee on Teaching Evaluation and Relationships with Students at the University of Milan's Faculty of Medicine and Surgery (since 2005).
- Member of the Steering Committee on Teaching Organization at the University of Milan's Faculty of Medicine and Surgery – Polo Centrale (2005-2010).
- Secretary of the Italian Society of Preventive and Social Pediatrics (2008-2012).
- Member of the Steering Committee on Vaccination of the Italian Society of Pediatrics (since 2009).
- Vice-president of the Italian Society of Paediatric Infectious Diseases (2008-2011).
- President of Amici del Bambino Malato Onlus (since 2009).
- President of the Italian Society of Paediatric Infectious Diseases (2011-2015);

- Member of the Steering Committee of the Italian Society for Pediatric Research (2012-2015);
- Member of Ethics Committee Milano area B (since 2013);
- Member of the Steering Committee on Rare Diseases of the Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy (since 2013);
- Secretariat of the Steering Committee on Anti-infective therapy of the Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy (since 2005).
- Member of the Steering Committee on Drugs of the Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy (since 2014).
- Member of the Inter-Universities Center for Healthcare Research & Pharmacoepidemiology (since 2015).

Main scientific editorial activities

- Chief Editor of the paediatric section of *La Rivista del Medico Pratico* (January 1998- December 2005).
- Scientific Coordinator of the *Giornale Italiano di Infettivologia Pediatrica* (since January 2001).
- Member of the Pediatric Area Editorial Committee (January 2001-December 2008).
- Editorial Secretary of *Vaccinare Oggi & Domani* (since March 2002).
- International Editor of The Pediatric Infectious Disease Journal (since May 2005).
- Assistant Editor of The International Journal of Pediatric Infectious Diseases (2006-2007).
- Editorial Board Member of The International Journal of Pediatric Infectious Diseases (since 2008).
- Associate Editor of BMC Infectious Diseases (since 2009).
- Associate Editor of Human Vaccines & Immunotherapeutics (since 2010).
- Associate Editor of Journal of Clinical Virology (since 2012).
- Editorial Board of PLOS one (since 2013).
- Editorial Board of International Journal of Pediatrics and Child Health (since 2013).
- Associate Editor for Pediatric Infections Section in Infectious Disease Reports (since 2014)
- Associate Editor of Medicine (since 2014);
- Board Member of VaccineXpert.net (since 2014);
- Editor of Edit Symposia (since 2016);
- Reviewers for several international journals:

American Journal of Physicians
 BMC Infectious Diseases
 BMC Public Health
 British Medical Journal
 Chest
 Clinical Drug Investigation
 Drugs
 European Journal of Pediatrics
 Infection
 Italian Journal of Pediatrics
 Journal of Chemotherapy
 Journal of Infection

Journal of Pediatric Gastroenterology and Nutrition
Lancet
Minerva Pediatrica
Paediatric Drugs
Pediatric Health
Pediatric Pulmonology
Respiratory Medicine
Respiratory Research
The International Journal of Pediatric Infectious Diseases
The Pediatric Infectious Disease Journal
Thorax
Trends in Respiratory Medicine
Vaccine

Summary of scientific activities

These started during my undergraduate course at Paediatric Department IV of the University of Milan with studies of paediatric infectious diseases, and continued after my graduation and specialisation with studies of various aspects of paediatrics – initially at the same Department and then at the Institute of Paediatrics of the University of Milan. The main studies have concerned:

1) Pediatric infectious diseases

- Influenza & respiratory viruses
- Invasive bacterial infections (i.e., sepsis & meningitis)
- Tuberculosis
- Upper & lower respiratory tract infections
- Central nervous system infections
- Infections in the immunocompromised host
- HIV infection
- Emerging infections
- Anti-infective therapy
- Tropical medicine

2) Pediatric immunology & rheumatology

- Vaccines & vaccination
- Kawasaki disease
- Periodic fever
- Immunogenetics & diseases' susceptibility
- Infectious agents & autoimmunity

3) Pediatric pulmonology & allergology

- Community-acquired pneumonia
- Bronchiolitis
- Asthma

4) Neonatology

- Neonatal sepsis
- Developmental immunology
- Antinfective therapy

5) Rare diseases

Epidermolysis bullosa
Ehlers-Danlos syndrome
NF1
Metabolic diseases

I have also **coordinated**:

1. international epidemiological studies of the role of different pathogens in respiratory tract infections;
2. controlled clinical trials of optimal therapeutic regimens for paediatric respiratory infections;
3. controlled trials on the use of vaccines in the first years of life;
4. guidelines for diagnostic and therapeutic approach to paediatric respiratory infections;
5. guidelines for the new vaccination calendar and the vaccinations recommended in infancy.

In 2012, I have identified two new Enteroviruses: enterovirus C-117 ed enterovirus C-118 (http://www.picornastudygroup.com/types/enterovirus/ev_types.htm).

In 2012, I have coordinated the Guidance from the European Society of Pediatric Infectious Diseases (ESPID) on management of community-acquired pneumonia in childhood.

In 2013-2014, I have created the Italian registry for Tuberculosis in pediatrics and I have coordinated the Italian guidelines on pediatric tuberculosis.

At a national level, I have coordinated the following relevant studies:

- project MIUR No. 2005068289_001 entitled “Influenza vaccination in pediatric age: vaccination coverage in children with chronic disease and in those otherwise healthy and efficacy of vaccination in epidemic period”;
- project entitled “Impact of influenza and immunogenicity and efficacy of influenza vaccination in pediatric age: clinical and socioeconomic impact in hospital and outpatient setting”, in the Bando Giovani Ricercatori RF 2007 of the Ministero del Lavoro, della Salute e delle Politiche Sociali;
- project entitled “Genetic variants and susceptibility to severe and/or recurrent lower respiratory tract infections with wheezing in children” in the Bando Giovani Ricercatori RF 2009 of the Ministero del Lavoro, della Salute e delle Politiche Sociali.

At International level, I have coordinated a Research Unit in the following projects:

- No. 242146 in FP7-HEALTH-2009 “European multicenter network to evaluate PK, safety and efficacy of Meropenem in neonatal sepsis and meningitis” (2011-2015);
- project No. A/101039 in the Second Programme of Community Action in the Field of Health “Antibiotic Resistance and Prescribing in European Children” (2008-32013);
- ERC (European Research Council) – Advanced Grant 2009, proposal n. 250290 “The hygiene hypothesis: revisiting the concept by integrating epidemiology and mechanistic studies: case-control study”.

At International level, I am coordinating a Research Unit in the following projects:

- IMI Project 115672-1 “Standardization and Development of Assays for Assessment of Influenza Vaccines Correlates of Protection”;
- H2020-FTIPilot-2015-“Fast tracking market adoption of a novel immune-based diagnostic for improving antibiotic stewardship: automation, piloting and health economics” (AutoPilot-Dx)

The main international collaborations include research or teaching activities with the Children’s Hospital in Dallas (TX, USA), Health Protection Agency in London (UK), the Erasmus MC in Rotterdam (The Netherlands), St George's Hospital Medical School in London (UK), the University of Oxford (UK) and Groningen University (The Netherlands).

From 1 September 1997 to 11 December 2000, I was responsible for the research laboratory for pediatric respiratory infections of the University of Milan; since 12 December 2000, I have been responsible for the research laboratory of the Institute of Paediatrics of the University of Milan. During this time, the two laboratories have become the reference laboratories in Italy for:

1. the molecular biology assaying of respiratory viruses (respiratory syncytial virus, influenza viruses, metapneumovirus, adenovirus, parainfluenza viruses, rhinoviruses, coronaviruses);
2. the serological and molecular biology assaying of *Mycoplasma pneumoniae*, *Chlamydia pneumoniae* and *Streptococcus pneumoniae*;
3. the evaluation of the cell-mediated immune response to combined vaccines.

Summary of published works

- 1,030 full-length publications:

415 articles in international journals reported by *PubMed*

Overall Impact Factor (Journal Citation Reports 2014): 2,749.866

13 letters in international journals reported by *PubMed*

Overall Impact Factor (Journal Citation Reports 2014): 310.566

5 articles in international journals reported by *PubMed* with the name among study group

Overall Impact Factor (Journal Citation Reports 2014): 79.984

H-index: 42 (Scopus)

470 articles in Italian journals

6 books published in Italy

1 international book

8 chapters in internationally published books

39 chapters in books published in Italy

73 journalistic articles

- 770 invited presentations at congresses of scientific societies:

379 at congresses of international scientific societies
491 at congresses of Italian scientific societies

- 710 presentations selected for congresses of scientific societies:
391 at congresses of international scientific societies
319 at congresses of Italian scientific societies.

A handwritten signature in black ink, appearing to read "Susanna Esposito", enclosed within a thin black rectangular border.

Prof. Susanna Esposito Milan, February 20, 2016