

## PERSONAL INFORMATION

Family name: **Zelante**; First name: **Teresa**;

### PUBLICATION TRACK RECORD

H index: 37 (Scopus Metrics overview: 80 Documents by author, Citations by 4059 documents)

Web of Science Researcher ID: F-7933-2017

<http://orcid.org/0000-0002-7071-0302>

### WEB PAGES

<http://www.zelantelab.com/curriculum/>

<https://www.unipg.it/personale/teresa.zelante>

### WORK EXPERIENCE

From 2019

Associate Professor

General pathology

University of Perugia, Perugia (Italy) SSD MED/04

Lecturer in General pathology and general physiopathology

Degree: TECNICHE DI LABORATORIO BIOMEDICO

Lecturer in IMMUNOLOGY AND IMMUNOPATHOLOGY - MOD. 3

Degree: MEDICINA E CHIRURGIA

Lecturer in General pathology and general physiopathology

Degree: INFERMIERISTICA

Lecturer in General pathology

Degree: TECNICHE DELLA PREVENZIONE NELL'AMBIENTE E NEI LUOGHI DI LAVORO

From 2016 to 2019

Researcher (type B)

Project: Programma per Giovani Ricercatori "Rita Levi Montalcini", University of Perugia, Perugia

From 2014 to 2016

Researcher type A in Pathology, University of Perugia, Italy

Project FunMeta—ERC-2011-AdG-293714-University of Perugia, Perugia

From 2013 to 2014

Senior Postdoc

Project: "DCs producing IL2 and Aspergillosis";

Project: "NFAT and phagocytosis of microbial particles"

Singapore Immunology Network

From 2011 to 2013

Supervisor PhD: "A\*STAR graduate scholarship"

Supervisor FINAL YEAR Project per Nanyang Technological University of Singapore

Singapore Immunology Network

From 2010 to 2011

Postdoc

Project: "Th17 responses in Cystic fibrosis: paving the way for novel anti-inflammatory strategies and immunogenetic screening"Universita' degli Studi di Perugia

From 2008 to 2010

Postdoc

Project: "Metabolic regulation of the Inflammatory Response"  
University of Perugia, Perugia

From 2004 to 2008

PhD in Biology and Experimental Medicine  
University of Perugia, Perugia

#### EDUCATION

2009

PhD in Biology and Experimental Medicine, University of Perugia, Perugia

2004

Masters Degree in Pharmacy, 110/110 cum laude, University of Perugia

#### SCIENTIFIC COURSES

2014

"The Omics Analysis Sydney Tutorial", Sydney, Australia

2011

"FACS training" Singapore", Singapore

2008

RNAi Workshop, Perugia, Italia

#### FELLOWSHIPS AND AWARDS

2015

Winner of the research prize 'Programma Giovani Ricercatori Rita Levi Montalcini'

2010

Postdoctoral research grant in "Th17 responses in Cystic fibrosis: paving the way for novel anti-inflammatory strategies and immunogenetic screening" (FFC#21/2010), University of Perugia

2009

Postdoctoral research grant in "Metabolic regulation of the inflammatory response", University of Perugia, Italy

2002

Recipient of "Premio di Laurea Barucchello" for best thesis in Molecular Biology, University of Perugia, Italy.

#### MEMBERSHIPS

European Society of Clinical Microbiology and Infectious Diseases (ESCMID)

Singaporean Society for Immunology, Singapore

Italian Society of Pathology and Translational Medicine (SIPMET), Italia

#### PATENTS

EP3035967 A1 Indole-3-aldehyde for treating dysreactive immune disorders.

#### CONFERENCE CHAIR

2019

Committee member of the 9th Advances Against Aspergillosis and Mucormycosis, Lugano, Switzerland

2015	Chair, Gordon Research Seminar in Immunology of Fungal Infections, Galveston, Texas. (participants: 61).	
2014	Co-organizer of the Singapore/Italy joint workshop on Cellular and Molecular Medicine at Singapore Immunology Network, Singapore. (participants: 180).	
2013	Co-Chair for Gordon Research Seminar in Immunology of Fungal Infections, Galveston, Texas. (participants:50).	LIST OF
2013	Organizer of the 2013 Scientific Symposium Retreat at Singapore Immunology Network, Singapore. (participants: 200).	

#### MOST RELEVANT CONFERENCES ATTENDED AS INVITED SPEAKER

- Aegean Conferences 2005, Rhodes, Greece
- Lung Transplantation 2006, Paris, France
- Italian Society of Microbiology 2006, Genova, Italy
- 5th SIICA 2007, Trieste, Italy
- AIBT 2007, Rome, Italy
- 3rd Advances Against Aspergillosis 2008, Miami, Florida, USA
- Infections and autoimmunity MACS Symposia 2008, Rome, Italy
- Workshop SIICA 2009 Pontignano, Italy
- ISHAM 2009 Tokyo, Japan
- Practical course ECM LE MICOSI INVASIVE DA LIEVITI dalla diagnosi al trattamento, 2009 Verona
- XXXVIII Congresso Nazionale AMCLI 2009 Rimini, Italy
- ESCMID Postgraduate Education Course- Invasive Fungal Infections: Host –Pathogen Interactions 2010 Oslo, Norway
- 7th NSMM Scientific Meeting-Clinical consequences of host fungus interactions 2010 Oslo, Norway
- 36th Annual meeting of the Portuguese Society for Immunology 2010 Porto, Portugal
- Gordon Research Conference Immunology of Fungal Infections 2011 Hotel Galvez Galveston, TX
- ISHAM (International Society for Human and Animal Mycology) 2012 Berlin, Germany
- 13th ISTRY 7th–9th of November 2012, Sydney, Australia
- Gordon conference The immunology of fungal infections 2013, Galveston Texas
- 15th International congress of Immunology, SM5 Satellite Meeting, Fungi in the setting of inflammation, allergy and autoimmune diseases: translating basic science into clinical practices 2013 Perugia, Italy
- "From general pathology to molecular and translational medicine" 2013 Rome, Italy
- Singapore/Italy joint workshop on Cellular and Molecular Medicine 2013 Singapore
- The Third Annual JAMS Dinner 2014, Sydney Australia
- Gordon conference The immunology of fungal infections 2015, Galveston Texas
- International 5th Annual Cluster Symposium "Inflammation at Interfaces" 2015 Kiel, Germany
- Gordon Research Conference 'Immunology of fungal infection' 2017, Galveston Texas
- 8th Advances Against Aspergillosis 2018 Lisbon, Portugal
- Assisi think tank meeting on research challenges in breast cancer 2020, Assisi
- State-of-the-art alternative infection models to study molecular mechanisms of human fungal infections 2020, Jena, Germany
- 9th Advances Against Aspergillosis and Mucormycosis 2020, Lugano, Switzerland (Webinar)
- Associazione Italiana Radioterapia e Oncologia clinica WEBINAR, 2020

#### OTHER PROFESSIONAL APPOINTMENTS

2020

PhD examiner, Masarykova univerzita | Faculty of Medicine, Department of Biology, Brno, Czech Republic

2017

PhD examiner, Aberdeen Fungal Group, MRC Centre for Medical Mycology, University of Aberdeen, Institute of Medical Sciences, UK

2010

Lecturer in Microbiology, "Education Course-Invasive Fungal Infections: Host– Pathogen Interactions", ESCMID Postgraduate Education Course. Institute of Medical Microbiology, Rikshospitalet University Hospital Sognsvannsveien, Oslo, Norway.

#### CONTRIBUTIONS TO SCIENCE

Her PhD was based on the study of the immunology of opportunistic diseases. In particular, in understanding the role of the Th17 cell response in early and late phases of infection. At the Singapore Immunology Network, she had her postdoc where she investigated the role of IL-2 in innate immune cells. She was pioneer in the study of mechanisms mediated by IL-22 driven by the microbiome. Thanks to her research, the IL-22/postbiotic response was also investigated by many other groups of research. Lastly, directly under the Program Research 'Giovani Ricercatori Rita Levi Montalcini', she have found that microbes in the lung may activate a pathogenic response AhR-mediated. Therefore, in her research programs, she had the chance to develop expertise in Microbiology and Immunology. In the last years, she focused on mouth/lung/gut microbiome studies by using as interface the 3D organoid model.

#### Grants as Principal Investigator

**Project title:** Molecular mining of the *Aspergillus* secondary metabolome: molecular, immunological, computational investigation and mathematical modeling of the tryptophan metabolism and discovery of new anti-inflammatory molecules targeting the Th17/Treg balance

**Funding source:** Italian Ministry of Education, University and Research

**Period:** 2016 (36 months)

**Project title:** The use of postbiotics in multiple sclerosis patient cohort

**Funding source:** Bank Foundation from Perugia, Italy

**Period:** 2018 (12 months)

**Project title:** Evaluation of the oral probiotics/postbiotics combination therapy able to re-establish the mucosal integrity in induced oral mucositis

**Funding source:** Biotech Magi

**Period:** 2018 (36 months)

#### Grants as Scientific Staff Member

**Project title:** Novel pharmacological vehicles for anakinra in cystic fibrosis

**Funding source:** Italian Cystic fibrosis Research foundation

**Period:** 2020 (24 months)

**Project title:** A novel antifungal target in cystic fibrosis

**Funding source:** Italian Cystic fibrosis Research foundation

**Period:** 2020 (12 months)

**Project title:** MicroTher: Drug Discovery from the Microbiota

**Funding source:** ERC-2018-PoC

**Period:** 2018 (24 months)

**Project title:** Pharmacology and therapeutics of inhaled indoles, as aryl hydrocarbon receptor ligands, in cystic fibrosis

**Funding source:** Italian Cystic fibrosis Research foundation

**Period:** 2018 (24 months)

**Project title:** FUNMETA (Metabolomics of fungal diseases: a systems biology approach for biomarkers discovery and therapy)

**Funding source:** ERC (FP7-IDEAS-ERC)

**Period:** 2012 (72 months)

**Project title:** Th17 responses in Cystic fibrosis: paving the way for novel anti-inflammatory strategies and immunogenetic screening

**Funding source:** Cystic Fibrosis Foundation

**Period:** 2010 (24 months)

**Project title:** Immunological tolerance induction to microbes with the use of Thymosin alpha1

**Funding source:** Italian Ministry of Education, University and Research

**Period:** 2008 (36 months)

**Project title:** Monitoring infections in basic research

**Funding source:** Bank Foundation from Perugia, Italy

**Period:** 2006 (12 months)

**Project title:** Development of novel management strategies for invasive aspergillosis European Union (FP6)

**Funding source:** Project MANASP FP6- LSHE-CT

**Period:** 2006 (36 months)