

Principal Investigator: [Francesca Fallarino, Ph.D]

**BIOGRAPHICAL SKETCH**  
**Complete for each professional associated with the project**

Name: [Fallarino Francesca, Ph.D]

Position/Title: University Associate  
Professor

**Education**

[Begin with baccalaureate or other professional education and include postdoctoral training]

Institution and Location	Degree	Year Conferred	Field of Study
Scientific Liceo, Città della Pieve, Perugia	Baccalaureate	1987	Science
University of Perugia	Master	1993	Drug Chemistry and Technology
University of Perugia	Ph.D.	1998	Experimental Medicine
University of Perugia	Researcher	2003	Pharmacology/Immunology
University of Perugia	Associate Professor	2013	Pharmacology/Immunology

**Research and Professional Experience**

[List in chronological order, previous employment, experience and honors]

**Positions and Employment**

1994-1996	Research Fellow, Ludwig Institute for Cancer Research, Brussels, Belgium
1996-1999	Research Fellow, Department of Pathology and Immunology, University of Chicago, USA
2000-2002	Research Fellow, Recipient of a fellowship from the Italian Foundation for Cancer Research (FIRC), University of Perugia
2002	Scientific Consultant, Medical College of Georgia, Augusta, USA
2002	Scientific Consultant, Washington University School of Medicine, St Louis, USA
2002	University Researcher, Department of Experimental Medicine and Biochemical Sciences, University of Perugia
2002-12	Senior Lecturer, Faculty of Pharmacy, University of Perugia.
2013 to present	Associate Professor Department of Experimental Medicine and Biochemical Sciences, University of Perugia

**Fellowships and awards**

- 2001 Italian Pharmacology Society (SIF) award for excellence in scientific production in year 2000.  
European Molecular and Biology Organization (EMBO) short-term fellowship (Georgia Medical College, USA) (June-October 2001) (Prof. Andrew Mellor)
- 2004 Farindustria National Research Award for best scientific paper by an Italian scientist in 20032017  
American Association of immunologists, AAI, Laboratory Grant award.

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- 2015 Title of Ambassador of Happiness in Research "city of Assisi" (Italy).  
2016 Top Italian women Scientist award: Milan, Italy.  
2016 Italian Women Innovation Award (ITWIIN 2016) for High professionalism. National Research Center (CNR), Bologna, Italy.  
2016 Winner presentation at the Bayer Hemophilia award program (BHAP) Alumni Global world webinar.

### Grants:

- 2008 Two-year Grant from Italian Ministry of University and Research (MIUR) to conduct research on: Tolerance modulation in, immunity autoimmunity and in transplantation (Coordinator).
- 2009 One year Grant from Italian Foundation for the Research in Multiple sclerosis (FISM):
- 2011 Two years Bayer Award grant to Dr Davide Martino "Modulating the antibody response to exogenous Factor VIII: the role of tryptophan catabolism" (coordinator).
- 2013 One Year, Grant 4 Target (Bayer Health Care): Installing FVIII-specific tolerance in hemophilia A via the aryl hydrocarbon receptor (AhR) operated by tryptophan catabolites, (Co-principal investigator with Prof. Iorio A. Mc Master University, Toronto).
- 2014 Bayer Special Project Award (two Years): Installing FVIII-specific tolerance in hemophilia A via tryptophan catabolites and aryl hydrocarbon receptor (AhR) activation (P.I. of the project).
- 2014 Telethon project (two years): FVIII-specific tolerance in hemophilia A via aryl hydrocarbon receptor (AhR) activation (P.I of the project).
- 2015 Bayer Health Care Grant 4 Target program (One year): Installing FVIII-specific tolerance in hemophilia A aryl hydrocarbon receptor (AhR) modulators: (CoP.I of the project):
- 2015 Italian Foundation for the Research in Multiple sclerosis (FISM): (three years) Dissection of the BAFF pathway in Multiple Sclerosis with a view toward more specific and effective therapies (Project collaborator) (Project PI Francesco Cucca IRGB "Istituto di Ricerca Genetica e Biomedica" (IRGB) of CNR Cagliari):
- 2016 National multiple sclerosis society, pilot grant (one year): Targeting cellular prion protein in multiple sclerosis (Project PI).
- 2017 Bayer grant for target (G4T): Focus grant (One year): Tackling Interleukin 4 Induced 1, IL4i1, as a novel target enzyme for tumor immunotherapy, (Project PI):
- 2017 Telethon project (three years): Dissecting dendritic cell subsets as key to installing tolerance to FVIII in hemophilia A, (Project PI).
- 2017 Italian association for cancer research (Airc) project (five years): Tackling Interleukin 4 Induced 1, IL4i1, as a novel target enzyme for tumor immunotherapy, (Project PI).

### Patents

- 2003 Combination of antigen APCs and IL-12 for tumor and viral therapy. (TF. Gajewski, **F. Fallarino**)
- 2010 Tryptophan catabolites as new potential drugs in chronic inflammation and autoimmunity (P.Puccetti, **F. Fallarino**, U. Grohmann).
- 2011 Microencapsulation process of sertoli cells, microcapsules obtained and their use for prevention and cure for type 1 diabetes mellitus. (R. Calafiore, G. Luca, M. Calvitti, E. Becchetti, P. Puccetti, **F. Fallarino**, C. Nastruzzi).
- 2012 Pluripotent Human Amniotic Mesenchymal Stem Cells. (R. Romani, G. Rosi, I. Pirisinu, **F. Fallarino**, P. Prontera, E. Donti).
- 2019 Compounds modulating the activity of the cellular prion protein and their use in pathological conditions (E. Biasini, **F. Fallarino**, ML Barreca, G. Manfroni), *ongoing patenting*.

### Institutional responsibilities

- 2013 – present: Member of the Faculty committee, of Ph.D program in system biology and immune and infectious diseases Department of Experimental Medicine, University of Perugia, Italy.
- 2015 – present: Faculty committee member of preclinical animal research, Department of Experimental Medicine, University of Perugia, Italy.

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- 2015 –present: Director of the Master school in Pharmaceutical Biotechnology, Department of Pharmaceutical Science, University of Perugia, Italy.

### Editorial board position

2013 – present      Journal of tryptophan research.  
2016 – present      World Journal of pharmacology  
2019 – present      Frontier in neuroinflammation (Associate Editor)  
2018                    Frontiers in Immunology (Section Editor)

### Personal statement

Francesca Fallarino has greatly contributed to the subject of immune tolerance, providing evidence that (a) tryptophan catabolism in tolerogenic dendritic cells can exert profound immunoregulatory effects on T lymphocytes as well as on otherwise immunostimulatory dendritic cells (DCs); (b) tryptophan catabolism is defective in autoimmune/inflammatory diseases; (c) kynurenines, the products of tryptophan catabolism, can be used therapeutically in chronic inflammation and in autoimmunity through the activation of specific receptors.

Francesca Fallarino has been invited to several international conferences and workshops. Francesca Fallarino has published more than **152** articles in extenso, appearing in the National Center for Biotechnology Information (USA) database. Her total number of citations is: **12.253** with *h*-index (Scopus): **56**.

She is on the current Top Italian Scientists list. Additionally, her continuous referee activity includes prestigious international Journals such as J. Immunology, European Journal of Immunology, American Journal of Transplantation, J Plos ONE, Scientific Reports. She is a member of the Italian association for clinical immunology (SIICA) and of other national Societies.

### Francesca Fallarino:

Public profile at: [http://scholar.google.it/citations?hl=it&user=Iis1vGgAAAAJ&view\\_op=list\\_works](http://scholar.google.it/citations?hl=it&user=Iis1vGgAAAAJ&view_op=list_works)

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Scopus Author ID: 7003795819