





**PERSONAL INFORMATION****Paola Larghi**

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Sex: Female | Date of birth: 31/05/1980 | Nationality: Italian

**POSITION****Scientific Officer**

I have been a Researcher for 13 years, during which I have accumulated experience in the field of cellular and molecular biology and in biochemistry, dedicating my efforts to the study of Immunology. This job allowed me to give my contribution to the Scientific Community through important publications. Lately I have decided to use my scientific knowledge and my personal attitude to management in a different employment, the Scientific Officer, where I can contribute to the growth of Scientific Community in a different way, by trying to organize as best as possible the economic resources dedicated to research by our Institution.

**WORK EXPERIENCE**

03/04/2017–present

**Scientific Officer at Fondazione Regionale per la Ricerca Biomedica (FRRB)****Major tasks and responsibilities:**

- Management and coordination of the Scientific Area at Regional Foundation for Biomedical Research and its team.
- Scientific support to all FRRB functions, including the Director General and the Board of Directors for the processing of scientific contents.
- Management and coordination of the Scientific Committee.
- Publication of the Lombardy Region position papers on Personalized Medicine.
- Drafting and publication of calls for biomedical research funding according to the availability of “Fondo Sanitario Regionale” (25 mln/year for the last 4 years).
- Peer review organization for project revision.
- Management of national and international research projects funded by FRRB: coordinator and partners support, project supervision through the periodic scientific relations and results dissemination.
- Management of clinical studies funded by FRRB: relationship with study coordinators and CRO supervision, dissemination of results.
- Organization of scientific events.
- Scientific communication.

01/04/2015–03/04/2017

**Senior Research Fellow**

Università degli Studi di Milano

Via F. Sforza 35, 20122 Milan (Italy)

Dipartimento di Fisiopatologia Medico-Chirurgica e dei Trapianti c/o Istituto Nazionale di Genetica Molecolare - INGM

Field of research: Biology of Type 1 Regulatory T cells

Main activities and responsibilities: conceiving, designing, performing and analysing research studies. Preparing and revising manuscripts.

Preparation and submission of grants to obtain funds to perform new research studies.

Coordination, mentoring and tutoring of PhD students.

Research sector: Immunology and Autoimmunity

- 01/10/2014–31/03/2015 **Senior Research Fellow**  
 Università degli Studi di Padova  
 Via Ugo Bassi 58, 35131 Padova (Italy)  
 Dipartimento di Scienze Biomediche  
 Field of research: Epigenetic modifications of macrophages associated to adipose tissue in obesity.  
 Research sector : Immunology
- 01/09/2013–30/09/2014 **Post doctoral Researcher**  
 Istituto Clinico Humanitas  
 Via Manzoni 113, 20089 Rozzano (Milan) (Italy)  
 Field of research: Epigenetic modifications of macrophages associated to adipose tissue in obesity.  
 Research sector : Immunology and Inflammation
- 01/09/2010–31/08/2013 **Post doctoral Researcher**  
 Institut Curie  
 26, Rue d'Ulm, 75005 Paris (France)  
 Field of research: Characterization of the role of the SNARE protein VAMP7 in T cells.  
 Research sector : Immunity and Cancer
- 01/11/2009–30/06/2010 **Post doctoral Fellow**  
 Fondazione Humanitas per la Ricerca  
 Via Manzoni 113, 20089 Rozzano (Milan) (Italy)  
 Field of research: Role of p50 NF-kappaB in myeloid derived suppressor cells.  
 Research sector : Immunology and Inflammation
- 01/11/2006–31/10/2009 **PhD student**  
 Università degli studi di Milano - Istituto Clinico Humanitas  
 Via Manzoni 113, 20089 Milan (Italy)  
 Field of research: Role of p50 NF-kappaB in dendritic cell functions.  
 Research sector : Immunology and Inflammation
- 01/01/2006–31/10/2006 **Fellow**  
 Istituto Clinico Humanitas  
 Via Manzoni 113, 20089 Rozzano (Milan) (Italy)  
 Field of research: Role of p50 NF-kappaB in dendritic cells functions.  
 Research sector : Immunology and Inflammation
- 01/09/2005–31/12/2005 **Fellow**  
 Istituto Europeo di Oncologia  
 Via Ripamonti 435, 20100 Milan (Italy)  
 Field of research: Melanoma therapeutic treatment with the use of bacteria.  
 Research sector : Immunology
- 01/09/2003–14/07/2005 **Undergraduate student**  
 Istituto Europeo di Oncologia  
 Via Ripamonti 435, 20100 Milan (Italy)

Field of research: Melanoma therapeutic treatment with salmonella thyphimurium.

Research sector : Immunology

## EDUCATION AND TRAINING

- 01/11/2006–31/10/2009 **PhD in Pathology and Experimental Neuropathology**  
 Università degli Studi di Milano  
 via Festa del Perdono 7, 20100 Milan (Italy)  
 Knowledge acquisition in medical sciences, including pathology and physiology.  
 Research projects management, including conceiving, designing, performing and analysing research studies, as well as preparing and revising research manuscripts.  
 Team work organization and coordination, mentoring and tutoring activities.  
 English language.
- 01/09/1999–14/07/2005 **Master degree in Biological Science (5 years course)**  
 Università degli Studi di Milano  
 Via Celoria 26, 20100 Milan (Italy)  
 Knowledge acquisition in Biological Sciences ranging from veterinary and botanic to medical sciences.  
 Mathematics, biochemistry and physics.

## PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C1	C1	B1	B1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
 Common European Framework of Reference for Languages

**Communication skills** Excellent scientific communication skills gained thanks to the numerous oral presentations given during reports and congresses, and excellent dissemination skills gained thanks to institutional events of FRRB and Regione Lombardia.

Last oral presentation during FRRB institutional event:

- Presentation of ERA PerMed Joint Transnational Call, FRRB Open Day, 24/01/2018.

Dissemination events as invited speaker:

- La struttura della medicina di precisione, Fondazione Giannino Bassetti, 12/03/2018, Milan. Invited to present FRRB e Regione Lombardia opinion on Precision medicine.
- Promesse e responsabilità della Precision Medicine, Fondazione Giannino Bassetti, 13/07/2017, Milan. Invited to present FRRB's activities.

Congresses where I have been chosen for oral presentations include:

- The "5th International Conference on Tumour Microenvironment: Progression, Therapy and Prevention", organized by AACR, American Association for Cancer Research, 20-24 October 2009, Versailles, France.
- The "1st French-Italian Joint Meeting on Subcellular Trafficking", 25-28 May 2011, Padua, Italy.

- The IX national conference of the Italian society of immunology, clinical immunology and allergology, Florence, 28-31 May 2014, the X national conference of the Italian society of immunology, clinical immunology and allergology, Padua, 26-28 May 2016.
- 10<sup>th</sup> European Lupus Meeting, Venice, 5-8 October 2016.

#### Organisational / managerial skills

##### As Scientific Officer:

- Management of Scientific Area.
- Relationship with the General Direction “Welfare” and “Research” at Regione Lombardia.
- Identification, together with the Scientific Committee of main topics of interest in the context of biomedical research and subsequent drafting and publication of Calls for financing original research projects, position papers and official documents on different scientific topics.
- Organization and management of the Scientific Committee activities.
- Organization and management of the Peer Review process of FRRB Calls.
- Scientific reports analysis and communication with PIs.
- Organization of Scientific events.
- Dissemination of research results (Scientific Community and lay public).
- Scientific communication.

##### As Researcher:

- Support and collaboration with the grant manager for the management of laboratory grants.
- Support to the Principal Investigator for the scientific management of the laboratory, such as the preparation of scientific reports of funded projects, the drafting of new projects to be submitted for funding, the preparation of experimental protocols to be submitted for ministerial authorizations for animal experimentation.
- Coordination and management of the experimental activities of the younger members of the laboratory.
- Coordination of different research teams working on the same project.
- Team working attitude.
- Organization of dissemination events, like “Milan Meets Immunology” (<https://milanimmunology.wordpress.com/people/>).

#### Job-related skills

15 months of experience as Scientific Officer at FRRB.

13-year experience in cellular biology, including cell culture, cell purification, and cell cloning methods.

13-years of experience in molecular biology and biochemistry, including DNA and RNA purification, semi-quantitative and quantitative PCR, chromatin immunoprecipitation, intracellular compartments purification, proteomic analysis, ELISA, western blot.

13-years of experience in mouse models and *in vivo/ex vivo* analysis.

Laboratory management.

6-year experience in the use of microscope and microscopy analysis (confocal microscope, spinning disk, fluorescence deconvolution microscope, TIRF microscope).

Communication skills gained through presentation of research results.

Writing skills gained through the presentation of grants and submission of manuscripts.

Leadership and mentoring qualities gained through the coordination of students working with me.

Collaboration skills gained through the organization of research projects involving different teams in different institutes.

Computer skills	Good command of Microsoft Office suite. Good command of Adobe suite including Photoshop and Illustrator. Good command of research related programs for image acquisition and analysis (Imaris, ImageJ, etc.) and for data analysis including FacsDiva, FlowJo and Prism
Driving licence	B

## ADDITIONAL INFORMATION

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Honours and awards	Feb. 2017: Public Competition Winner for the Scientific Officer position at FRRB Mar. 2015: 2-years Research Fellowship Università degli Studi di Milano Sept. 2014: 1-year Research Fellowship Università degli Studi di Padova Dec. 2010: 2-years FRM fellowship. Dec. 2006: 3-years AIRC fellowship.
Publications	<u>Position paper on Personalized Medicine by FRRB and Lombardy Region.</u>  MEDICINA PERSONALIZZATA E DI PRECISIONE: potenziali di sviluppo in Regione Lombardia. <b>A cura di Paola Larghi.</b> Distribuito attraverso “Gli Speciali di AboutPharma” <a href="https://www.aboutpharma.com/blog/2018/05/16/medicina-personalizzata-e-di-precisione-istruzioni-per-luso/">https://www.aboutpharma.com/blog/2018/05/16/medicina-personalizzata-e-di-precisione-istruzioni-per-luso/</a>  <u>Scientific publications:</u>  Author h index: 11 (Scopus) Number of publications: 26  1) R. Gualtierotti, M.O. Borghi, M. Gerosa, T. Schioppo, <b>P. Larghi</b> , J. Geginat, P.L. Meroni. Successful sequential therapy with rituximab and belimumab in patients with active systemic lupus erythematosus: a case series. Clin Exp Rheumatol. 2018 Feb 27. [Epub ahead of print]  2) Johanna S Alfen*, <b>Paola Larghi*</b> , Federica Facciotti*, Nicola Gagliani*, Roberto Bosotti, Moira Paroni, Stefano Maglie, Paola Guarin, Chiara M Vasco, Valeria Ranzani, Cristina Frusteri, Andrea Iseppon, Monica Moro, Maria C Crosti, Stefano Gatti, Massimiliano Pagani, Flavio Caprioli, Sergio Abrignani, Richard A Flavell, Jens Geginat. * equal contributions Intestinal IFN- $\gamma$ -producing Tr1-cells co-express CCR5 and PD-1, and down-regulate IL-10 in the inflamed gut of IBD patients. J Allergy Clin Immunol. 2018 Jan 31. pii: S0091-6749(18)30078-2. doi: 10.1016/j.jaci.2017.12.984.  3) F. Facciotti*, <b>P. Larghi*</b> , N. Gagliani, A. Penatti, M. Paroni, B. Häringer, I. Kastirr, Y. Kobayashi, A. Iseppon, M. Moro, MC. Crosti, M. Bombaci, S. Gatti, S. Torretta, L. Pignataro, M. Pagani, S. Abrignani, PL. Meroni, R. A. Flavell, and J. Geginat * equal contributions IL-10 producing CCR6+T-cells are a distinct population of B-helper T-cells that play a pathogenic role in systemic lupus erythematosus. Journal of Experimental Medicine. In revision

- 4) Penatti A, Facciotti F, De Matteis R, **Larghi P**, Paroni M, Murgo A, De Lucia O, Pagani M, Pierannunzii L, Truzzi M, Ioan-Facsinay A, Abrignani S, Geginat J, Meroni PL.  
Differences in serum and synovial CD4<sup>+</sup> T cells and cytokine profiles to stratify patients with inflammatory osteoarthritis and rheumatoid arthritis.  
*Arthritis Res Ther.* 2017 May 19;19(1):103. doi: 10.1186/s13075-017-1305-1.
- 5) Hivroz C, **Larghi P**, Jouve M, Ardouin L.  
Purification of LAT-Containing Membranes from Resting and Activated T Lymphocytes.  
*Methods Mol Biol.* 2017;1584:355-368. doi: 10.1007/978-1-4939-6881-7\_21.
- 6) Paroni M, Maltese V, De Simone M, Ranzani V, **Larghi P**, Fenoglio C, Pietroboni AM, De Riz MA, Crosti MC, Maglie S, Moro M, Caprioli F, Rossi R, Rossetti G, Galimberti D, Pagani M, Scarpini E, Abrignani S, Geginat J.  
Recognition of viral and self-antigens by T<sub>H</sub>1 and T<sub>H</sub>1/T<sub>H</sub>17 central memory cells in patients with multiple sclerosis reveals distinct roles in immune surveillance and relapses.  
*J Allergy Clin Immunol.* 2017 Feb 16. doi: 10.1016/j.jaci.2016.11.045. Epub 2017 Feb 22
- 7) Ragni E, Banfi F, Barilani M, Cherubini A, Parazzi V, **Larghi P**, Dolo V, Bollati V, Lazzari L.  
Extracellular Vesicle-Shuttled mRNA in Mesenchymal Stem Cell Communication.  
*Stem Cells.* 2017 Feb 5. doi: 10.1002/stem.2557. Epub 2017 Feb 5
- 8) **Paola Larghi\***, Antonella Viola, Barbara Molon. \*Corresponding author.  
Analysis of T cell activation by confocal microscopy.  
*Methods Mol Biol.* 2017;1514:63-81. PMID: 27787792 2016
- 9) Geginat J, Paroni M, Kastirr I, **Larghi P**, Pagani M, Abrignani S.  
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*Eur J Immunol.* 2016 Oct;46(10):2306-2310. doi: 10.1002/eji.201646618. PMID: 27726139
- 10) Paroni M, Magarotto A, Tartari S, Nizzoli G, **Larghi P**, Ercoli G, Gianelli U, Pagani M, Elli L, Abrignani S, Conte D, Geginat J, Caprioli F.  
Uncontrolled IL-17 Production by Intraepithelial Lymphocytes in a Case of non-IPEX Autoimmune Enteropathy.  
*Clin Transl Gastroenterol.* 2016 Jul 14;7(7):e182. doi: 10.1038/ctg.2016.41. PMID: 27415620
- 11) Giulia Nizzoli, **Paola Larghi**, Moira Paroni, Maria Cristina Crosti, Monica Moro, Petra Neddermann, Flavio Caprioli, Massimiliano Pagani, Raffaele De Francesco, Sergio Abrignani, Jens Geginat.  
IL-10 promotes homeostatic proliferation of human CD8<sup>+</sup> memory T cells and, when produced by CD1c<sup>+</sup> DCs, shapes naive CD8<sup>+</sup> T-cell priming.  
*Eur J Immunol.* 2016 Jul;46(7):1622-32. doi: 10.1002/eji.201546136. Epub 2016 May 17. PMID: 27129615
- 12) Geginat J, **Larghi P**, Paroni M, Nizzoli G, Penatti A, Pagani M, Gagliani N, Meroni P, Abrignani S, Flavell RA.  
The light and the dark sides of Interleukin-10 in immune-mediated diseases and cancer.  
*Cytokine Growth Factor Rev.* 2016 Mar 8. pii: S1359-6101(16)30019-3. doi: 10.1016/j.cytogfr.2016.02.003. [Epub ahead of print] PMID: 26980675.
- 13) Chiaruttini G, Piperno GM, Jouve M, De Nardi F, **Larghi P**, Peden AA, Baj G,

- Müller S, Valitutti S, Galli T, Benvenuti F.  
The SNARE VAMP7 Regulates Exocytic Trafficking of Interleukin-12 in Dendritic Cells.  
*Cell Rep.* 2016 Mar 22;14(11):2624-36. doi: 10.1016/j.celrep.2016.02.055. Epub 2016 Mar 10. PMID: 26972013;
- 14) Geginat J, Nizzoli G, Paroni M, Maglie S, **Larghi P**, Pascolo S, Abrignani S.  
Immunity to Pathogens Taught by Specialized Human Dendritic Cell Subsets.  
*Front Immunol.* 2015 Oct 13;6:527. doi: 10.3389/fimmu.2015.00527. eCollection 2015. Review. PMID: 26528289;
- 15) Clement M, Fornasa G, Loyau S, Morvan M, Andreato F, Guedj K, Khallou-Laschet J, **Larghi P**, Le Roux D, Bismuth G, Chiocchia G, Hivroz C, Newman DK, Nicoletti A, Caligiuri G.  
Upholding the T cell immune-regulatory function of CD31 inhibits the formation of T/B immunological synapses in vitro and attenuates the development of experimental autoimmune arthritis in vivo.  
*J Autoimmun.* 2015 Jan;56:23-33. doi: 10.1016/j.jaut.2014.09.002. Epub 2014 Sep 30. PMID: 25277651.
- 16) **Larghi P**, Williamson DJ, Carpier JM, Dogniaux S, Chemin K, Bohineust A, Danglot L, Gaus K, Galli T, Hivroz C.  
VAMP7 controls T cell activation by regulating the recruitment and phosphorylation of vesicular Lat at TCR-activation sites.  
*Nat Immunol.* 2013 Jul;14(7):723-31. doi: 10.1038/ni.2609. Epub 2013 May 12. PMID: 23666293.
- 17) **Larghi P**, Porta C, Riboldi E, Totaro MG, Carraro L, Orabona C, Sica A.  
The p50 subunit of NF- $\kappa$ B orchestrates dendritic cell lifespan and activation of adaptive immunity.  
*PLoS One.* 2012;7(9):e45279. doi: 10.1371/journal.pone.0045279. Epub 2012 Sep 25. PMID: 23049782;
- 18) p50 NF- $\kappa$ B and Dendritic Cells: a matter of life and death: The p50 subunit of NF- $\kappa$ B orchestrates dendritic cell lifespan and activation of adaptive immunity.  
**Paola Larghi**, Chiara Porta, Antonio Sica.  
LAP LAMBERT Academic Publishing (22 febbraio 2013), e-book.
- 19) Tumor-Infiltrating Inflammatory Cells as Possible Therapeutic Targets.  
**Paola Larghi**, Chiara Porta, Elena Riboldi, Paola Allavena, Alberto Mantovani and Antonio Sica  
The Inflammatory Milieu of Tumors: Cytokines and Chemokines that Affect Tumor Growth and Metastasis.  
Edited by Adit Ben-Baruch  
Book chapter pages 14-28, 2012.
- 20) Porta C, **Larghi P**, Rimoldi M, Totaro MG, Allavena P, Mantovani A, Sica A.  
Cellular and molecular pathways linking inflammation and cancer. *Immunobiology.* 2009;214(9-10):761-77. doi: 10.1016/j.imbio.2009.06.014. Epub 2009 Jul 17. Review. PMID: 19616341.
- 21) Mancino A, Schioppa T, **Larghi P**, Pasqualini F, Nebuloni M, Chen IH, Sozzani S, Austyn JM, Mantovani A, Sica A. Divergent effects of hypoxia on dendritic cell functions. *Blood.* 2008 Nov 1;112(9):3723-34. doi: 10.1182/blood-2008-02-142091. Epub 2008 Aug 11. PMID: 18694997.
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Intra-tumoral Salmonella typhimurium induces a systemic anti-tumor immune response

that is directed by low-dose radiation to treat distal disease.

Eur J Immunol. 2008 Jul;38(7):1937-47. doi: 10.1002/eji.200738035. PMID: 18581324.

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Macrophage polarization in tumour progression.

Semin Cancer Biol. 2008 Oct;18(5):349-55. doi: 10.1016/j.semcancer.2008.03.004. Epub 2008 Mar 26. Review. PMID: 18467122.

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Targeting tumour-associated macrophages.

Expert Opin Ther Targets. 2007 Sep;11(9):1219-29. Review. PMID: 17845147.

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Tumor promotion by tumor-associated macrophages.

Adv Exp Med Biol. 2007;604:67-86. Review. PMID: 17695721.

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Monocyte-derived dendritic cells activated by bacteria or by bacteria-stimulated epithelial cells are functionally different.

Blood. 2005 Oct 15;106(8):2818-26. Epub 2005 Jul 19. PMID: 16030185.

Personal information

I authorise the use of my personal data in compliance with the Italian Legislative Decree 196/03.

Milan, 01/06/2018

