

## BIOGRAPHICAL SKETCH

NAME: Cecilia Garlanda		POSITION TITLE: Head of the Laboratory of Experimental Immunopathology, Istituto Clinico Humanitas, Rozzano (MI), Italy.	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (If applicable)	Completion Date MM/YY	FIELD OF STUDY
Liceo Scientifico "Vittorio Veneto", Milan Italy	60/60	07/1984	High school
Faculty of Veterinary Medicine, Università degli Studi di Milano, Milan, Italy	110/110 cum laude	07/1990	Veterinary Medicine
School of Specialization in Pharmacological Research of Lombardia Region, Milan, Italy.	PhD equivalent	06/1993	Specialization in Pharmacological Research

### A. Personal Statement

In my scientific carrier I contributed to characterize murine models of vascular tumours, to produce monoclonal antibodies against the murine vascular endothelium, to generate and phenotypically characterize gene-modified mice. My expertise is related to innate immunity and regulation of inflammatory responses. My activity has been focused on the functional characterization of original molecules of the immune system, in particular on the characterization of the biological activity of the long pentraxin PTX3 in the context of innate immune responses to pathogens of fungal, bacterial or viral origin, and in the regulation of inflammatory responses in conditions of infections or tissue damage, in particular in wound healing and cancer. I contributed to characterize the diagnostic potential of PTX3 in human inflammatory diseases and I am now involved in the translation of PTX3 to the clinic as therapeutic tool in infectious diseases. I is also focused on IL-1R8/TIR8/SIGIRR, a member of the family of IL-1 Receptors and Toll Like Receptors, acting as a negative regulator of inflammatory and immune responses triggered by TLR engagement and by IL-1 family members, in particular in the context of inflammatory diseases, infections, autoimmunity and cancer. The activities of my Laboratory mainly consist in pre-clinical studies, which take advantage of gene-modified animals generated by my group, and are finalized to the possibility of translating these molecules to the clinic, as potential diagnostic and/or therapeutic tools. I developed my scientific carrier in the Departments directed by Prof. Alberto Mantovani, at Istituto di Ricerche Farmacologiche "Mario Negri", Milan, Italy and then at Istituto Clinico Humanitas, Rozzano, Milan, Italy.

I worked as collaborator or principal investigator in EU and national projects (H2020 MIROCALS, FP7 MUGEN, FP6 EMBIC, Cariplo, Fondazione per la Ricerca sulla Fibrosi Cistica, Ministero della Salute - Ricerca Finalizzata e Alleanza contro il Cancro, Telethon) focused on inflammation in different contexts, cancer and infectious diseases.

Scientific activity is documented by 156 scientific publications on international journals, 15 chapters on scientific books; H index 52 (Scopus); 9670 citations.

### B. Positions and Honors

1987-1990 Internal student. Department of Veterinary Pharmacology, Università degli Studi di Milano, Milan, Italy.

1991-1994 Research assistant, Laboratory of Immunology, Istituto di Ricerche Farmacologiche "Mario Negri", Milan, Italy.

1994-1995 Visiting fellow, Département de Biologie Moléculaire et Structurale- Unité INSERM 217-Centre d'Etudes Nucléaires de Grenoble, France.

1996-2004 Research assistant, and 2004-2005 Unit Head (Experimental Immunopathology) in the Laboratory of Immunology, Istituto di Ricerche Farmacologiche "Mario Negri", Milan, Italy.

From Sept 2005 Head of the Laboratory of Experimental Immunopathology in the Dept. of Research in Immunology, Istituto Clinico Humanitas, Rozzano, Milan, Italy.

### C. Selected peer-reviewed Publications

(1) Garlanda C., Hirsch E., Bozza S., Salustri A., De Acetis M., Nota R., Maccagno A., Riva F., Bottazzi B., Peri G., Doni A., Vago L., Botto M., De Santis R., Carminati P., Siracusa G., Altruda F., Vecchi A., Romani L. and Mantovani A. Non-redundant role of the long pentraxin PTX3 in anti-fungal innate immune response. *Nature*. 420: 182-186, 2002.

- (2) Garlanda C., Bottazzi B., Bastone A. and Mantovani A. Pentraxins at the crossroads between innate immunity, inflammation, matrix deposition, and female fertility. *Annu Rev Immunol.* 23: 337-66, 2005. [http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list\\_uids=15771574](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15771574)
- (3) Jeannin P., Bottazzi B., Sironi M., Doni A., Rusnati M., Presta M., Maina V., Magistrelli G., Haeuw J. F., Hoeffel G., Thieblemont N., Corvaia N., Garlanda C., Delneste Y. and Mantovani A. Complexity and complementarity of outer membrane protein A recognition by cellular and humoral innate immunity receptors. *Immunity.* 22: 5, 551-60, 2005. [http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list\\_uids=15894273](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15894273)
- (4) Colotta F., Allavena P., Sica A., Garlanda C. and Mantovani A. Cancer-related inflammation, the seventh hallmark of cancer: links to genetic instability. *Carcinogenesis.* 30: 7, 1073-81, 2009. [http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list\\_uids=19468060](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=19468060)
- (5) Dinarello C., Arend W., Sims J., Smith D., Blumberg H., O'Neill L., Goldbach-Mansky R., Pizarro T., Hoffman H., Bufler P., Nold M., Ghezzi P., Mantovani A., Garlanda C., Boraschi D., Rubartelli A., Netea M., van der Meer J., Joosten L., Mandrup-Poulsen T., Donath M., Lewis E., Pfeilschifter J., Martin M., Kracht M., Muehl H., Novick D., Lukic M., Conti B., Solinger A., Kelk P., van de Veerdonk F. and Gabel C. IL-1 family nomenclature. *Nat Immunol.* 11: 11, 973, 2010. <http://www.ncbi.nlm.nih.gov/pubmed/20959797>.
- (6) Bottazzi B., Doni A., Garlanda C. and Mantovani A. An integrated view of humoral innate immunity: pentraxins as a paradigm. *Annu Rev Immunol.* 28: 157-83, 2010. [http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list\\_uids=19968561](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=19968561)
- (7) Chiarini M., Sabelli C., Melotti P., Garlanda C., Savoldi G., Mazza C., Padoan R., Plebani A., Mantovani A., Notarangelo L. D., Assael B. M. and Badolato R. PTX3 genetic variations affect the risk of *Pseudomonas aeruginosa* airway colonization in cystic fibrosis patients. *Genes Immun.* 11: 8, 665-70, 2010. [http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list\\_uids=20927127](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=20927127)
- (8) Moalli F., Doni A., Deban L., Zelante T., Zagarella S., Bottazzi B., Romani L., Mantovani A. and Garlanda C. Role of complement and Fc{gamma} receptors in the protective activity of the long pentraxin PTX3 against *Aspergillus fumigatus*. *Blood.* 116: 24, 5170-80, 2010. [http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list\\_uids=20829368](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=20829368)
- (9) Norata G. D., Garlanda C. and Catapano A. L. The long pentraxin PTX3: a modulator of the immunoinflammatory response in atherosclerosis and cardiovascular diseases. *Trends Cardiovasc Med.* 20: 2, 35-40, 2010. [http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list\\_uids=20656213](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=20656213)
- (10) Deban L., Russo R. C., Sironi M., Moalli F., Scanziani M., Zambelli V., Cuccovillo I., Bastone A., Gobbi M., Valentino S., Doni A., Garlanda C., Danese S., Salvatori G., Sassano M., Evangelista V., Rossi B., Zenaro E., Constantin G., Laudanna C., Bottazzi B. and Mantovani A. Regulation of leukocyte recruitment by the long pentraxin PTX3. *Nat Immunol.* 11: 4, 328-34, 2010. [http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list\\_uids=20208538](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=20208538)
- (11) Bertilaccio M. T., Simonetti G., Dagklis A., Rocchi M., Rodriguez T. V., Apollonio B., Mantovani A., Ponzoni M., Ghia P., Garlanda C., Caligaris-Cappio F. and Muzio M. Lack of TIR8/SIGIRR triggers progression of chronic lymphocytic leukemia in mouse models. *Blood.* 118: 3, 660-9, 2011. <http://www.ncbi.nlm.nih.gov/pubmed/21652674>.
- (12) Costello D. A., Watson M. B., Cowley T. R., Murphy N., Murphy Royal C., Garlanda C. and Lynch M. A. Interleukin-1alpha and HMGB1 mediate hippocampal dysfunction in SIGIRR-deficient mice. *J Neurosci.* 31: 10, 3871-9, 2011. <http://www.ncbi.nlm.nih.gov/pubmed/21389242>.
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- (14) Inforzato A., Jaillon S., Moalli F., Barbati E., Bonavita E., Bottazzi B., Mantovani A. and Garlanda C. The long pentraxin PTX3 at the crossroads between innate immunity and tissue remodelling. *Tissue antigens.* 77: 4, 271-82, 2011. <http://www.ncbi.nlm.nih.gov/pubmed/21388349>.
- (15) Lech M., Rommele C., Kulkarni O. P., Susanti H. E., Migliorini A., Garlanda C., Mantovani A. and Anders H. J. Lack of the long pentraxin PTX3 promotes autoimmune lung disease but not glomerulonephritis in murine systemic lupus erythematosus. *PLoS One.* 6: 5, e20118, 2011. <http://www.ncbi.nlm.nih.gov/pubmed/21637713>.
- (16) Maugeri N., Rovere-Querini P., Slavich M., Coppi G., Doni A., Bottazzi B., Garlanda C., Cianflone D., Maseri A., Mantovani A. and Manfredi A. A. Early and transient release of leukocyte pentraxin 3 during acute myocardial infarction. *Journal of immunology.* 187: 2, 970-9, 2011. <http://www.ncbi.nlm.nih.gov/pubmed/21677138>.
- (17) Moalli F., Jaillon S., Inforzato A., Sironi M., Bottazzi B., Mantovani A. and Garlanda C. Pathogen recognition by the long pentraxin PTX3. *Journal of biomedicine & biotechnology.* 2011: 830421, 2011. <http://www.ncbi.nlm.nih.gov/pubmed/21716666>.
- (18) Moalli F., Paroni M., Veliz Rodriguez T., Riva F., Polentarutti N., Bottazzi B., Valentino S., Mantero S., Nebuloni M., Mantovani A., Bragonzi A. and Garlanda C. The therapeutic potential of the humoral pattern recognition molecule PTX3 in

- chronic lung infection caused by *Pseudomonas aeruginosa*. *J Immunol*. 186: 9, 5425-34, 2011.  
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- (20) Skuginna V., Lech M., Allam R., Ryu M., Clauss S., Susanti H. E., Rommele C., Garlanda C., Mantovani A. and Anders H. J. Toll-like receptor signaling and SIGIRR in renal fibrosis upon unilateral ureteral obstruction. *PLoS One*. 6: 4, e19204, 2011. <http://www.ncbi.nlm.nih.gov/pubmed/21544241>.
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- (22) Barbati E., Specchia C., Villella M., Rossi M. L., Barlera S., Bottazzi B., Crociati L., d'Arienzo C., Fanelli R., Garlanda C., Gori F., Mango R., Mantovani A., Merla G., Nicolis E. B., Pietri S., Presbitero P., Sudo Y., Villella A. and Franzosi M. G. Influence of Pentraxin 3 (PTX3) Genetic Variants on Myocardial Infarction Risk and PTX3 Plasma Levels. *PLoS One*. 7: 12, e53030, 2012. <http://www.ncbi.nlm.nih.gov/pubmed/23285251>.
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<http://www.ncbi.nlm.nih.gov/pubmed/22964239>.
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- (25) Veliz Rodriguez T., Moalli F., Polentarutti N., Paroni M., Bonavita E., Anselmo A., Nebuloni M., Mantero S., Jaillon S., Bragonzi A., Mantovani A., Riva F. and Garlanda C. Role of Toll interleukin-1 receptor (IL-1R) 8, a negative regulator of IL-1R/Toll-like receptor signaling, in resistance to acute *Pseudomonas aeruginosa* lung infection. *Infect Immun*. 80: 1, 100-9, 2012. <http://www.ncbi.nlm.nih.gov/pubmed/22025515>.
- (26) Barry J., Loh Z., Collison A., Mazzone S., Lalwani A., Zhang V., Davidson S., Wybacz E., Garlanda C., Mantovani A., Mattes J., Foster P. S. and Phipps S. Absence of Toll-IL-1 Receptor 8/Single Immunoglobulin IL-1 Receptor-Related Molecule Reduces House Dust Mite-Induced Allergic Airway Inflammation in Mice. *Am J Respir Cell Mol Biol*. 49: 3, 481-90, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/23614768>.
- (27) Garlanda C., Dinarello C. A. and Mantovani A. The interleukin-1 family: back to the future. *Immunity*. 39: 6, 1003-18, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/24332029>.
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- (29) Garlanda C., Riva F., Bonavita E. and Mantovani A. Negative regulatory receptors of the IL-1 family. *Seminars in immunology*. 25: 6, 408-15, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/24239046>.
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- (31) Jaillon S., Galdiero M. R., Del Prete D., Cassatella M. A., Garlanda C. and Mantovani A. Neutrophils in innate and adaptive immunity. *Semin Immunopathol*. 35: 4, 377-94, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/23553214>.
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- (33) Lech M., Rommele C., Grobmayr R., Eka Susanti H., Kulkarni O. P., Wang S., Grone H. J., Uhl B., Reichel C., Krombach F., Garlanda C., Mantovani A. and Anders H. J. Endogenous and exogenous pentraxin-3 limits postischemic acute and chronic kidney injury. *Kidney international*. 83: 4, 647-61, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/23325083>.
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<http://www.ncbi.nlm.nih.gov/pubmed/23664694>.
- (35) Ronca R., Alessi P., Coltrini D., Di Salle E., Giacomini A., Leali D., Corsini M., Belleri M., Tobia C., Garlanda C., Bonomi E., Tardanico R., Vermi W. and Presta M. Long pentraxin-3 as an epithelial-stromal fibroblast growth factor-

targeting inhibitor in prostate cancer. *The Journal of pathology*. 230: 2, 228-38, 2013.

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