Annalisa Chiocchetti

Curriculum vitae

PERSONAL DATA

Born in South Africa, 5th January 1969

Resident in Turin

BIO AND EDUCATION

1993: graduation in Biological Sciences with the score 110/110 cum laude, University of Turin, Italy.

1998: PhD in "Human Biology: Molecular and Cellular Basis", School of Medicine, University of Turin, under the supervision of Prof. L. Silengo.

2001: Specialisation in Clinical Biochemistry with the score 70/70 cum laude, School of Medicine, University of Turin, under the supervision of prof. G.P. Pescarmona.

2007: Graduation in Medicine & Surgery, School of Medicine of Novara, with the score 110/110 cum laude and a special mention of honour.

UNIVERSITY CAREER

2005-	Assistant Professor, Università del Piemonte Orientale
2003	Fellowship FISM, UPO
2001	Post-doc, UPO
2000	Fellowship, UPO

UNIVERSITY POSITIONS

2015-	Member for department of the commission "incentivo una-tantum"
2014-2016	Member for department of the commission "conto terzi"

SCIENTIFIC POSITIONS

2013-2016-	Member of the IRCAD technical-scientific board
2016	Member of the Corse council of the Master in Molecular Diagnostics

MAIN FIELDS OF INTEREST

1. Immunology
2. Pathogenetic mechanisms in autoimmune diseases
3. Costimulatory molecules
4. New therapeutic interventions in allergy

CURRENT ISSUES OF RESEARCH

1. **Role of osteopontin in autoimmune diseases.** Osteopontin (OPN) is a proinflammatory cytokine deregulated in several autoimmune diseases such as Autoimmune Lymphoproliferative Syndrome, Multiple Sclerosis and Systemic Lupus Erythematous. Actual research is aimed, on one side, to unravel the role of auto-antibodies against OPN in the serum of autoimmune patients, and on the other side to study OPN modulation by proteases.
2. **Analysis of apoptotic defects in autoimmune diseases.** In the past we demonstrated that defects of cell death are involved in the pathogenesis of autoimmune diseases, and may involve Fas, perforin, osteopontin and IL-17. We are currently investigating the role of other molecules we found mutated that may affect apoptosis such as PIM-1.
3. **Analysis of B7h-OPN interaction.** This project starts from the observation that cells expressing B7h, a costimulatory molecule binding ICOS, migrate toward OPN, whereas cells that do not express B7h don't migrate. Interestingly, transfection of B7h-negative cells, with B7h, confers the ability to migrate in response to OPN. This project is aimed to characterize this phenomenon.
4. **Immuno-inflammatory characterization of different lactobacillus strains to treat allergy.** The microbiota influences heath and its deregulation is often associated to autoimmunity and allergy. The aim of this project is to test different formulations of lactobacillus in a clinical to evaluated its efficacy in ameliorating allergy.

CURRENT FUNDED PROJECTS

PROGRAMME	FUNDED PROJECT
Grant for industrial application to autoimmune and allergic diseases (Regione Piemonte)	PRONTALL- "Immunologic and inflammatory characterization of lactobacillus strains to generate a probiotic formulation for allergy"

TOP FIVE PAPERS

1. Clemente N, Boggio E, Gigliotti CL, Orilieri E, Cappellano G, Toth E, Valletti PA, Santoro C, Quinti I, Pignata C, Notarangelo LD, Dianzani C, Dianzani I, Ramenghi U, Dianzani U, **Chiocchetti A**. A mutation in caspase-9 decreases the expression of BAFFR and ICOS in patients with immunodeficiency and lymphoproliferation. Genes Immun. 2015 Mar;16(2):151-61.
doi:10.1038/gene.2014.74.

2.Boggio E, Clemente N, Mondino A, Cappellano G, Orilieri E, Gigliotti CL, Toth E, Ramenghi U, Dianzani U, **Chiocchetti A**. IL-17 protects T cells from apoptosis and contributes to development of ALPS-like phenotypes. Blood. 2014 Feb 20;123(8):1178-86.
doi: 10.1182/blood-2013-07-518167.

3. Boggio E, Aricò M, Melensi M, Dianzani I, Ramenghi U, Dianzani U, **Chiocchetti A**. Mutation of FAS, XIAP, and UNC13D genes in a patient with a complex lymphoproliferative phenotype. Pediatrics. 2013 Oct;132(4):e1052-8.
doi: 10.1542/peds.2012-1838.

4: Vaschetto R, Nicola S, Olivieri C, Boggio E, Piccolella F, Mesturini R, Damnotti F, Colombo D, Navalesi P, Della Corte F, Dianzani U, **Chiocchetti A.** Serum levels of osteopontin are increased in SIRS and sepsis. Intensive Care Med. 2008 Dec;34(12):2176-84.
doi: 10.1007/s00134-008-1268-4.

5: **Chiocchetti A**, Indelicato M, Bensi T, Mesturini R, Giordano M, Sametti S,Castelli L, Bottarel F, Mazzarino MC, Garbarini L, Giacopelli F, Valesini G, Santoro C, Dianzani I, Ramenghi U, Dianzani U. High levels of osteopontin associated with polymorphisms in its gene are a risk factor for development of autoimmunity/lymphoproliferation. Blood. 2004 Feb 15;103(4):1376-82.