

BIOGRAPHICAL SKETCH

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NAME Vincenzo Casolaro, M.D., Ph.D.		POSITION TITLE	
eRA COMMONS USER NAME vcasola1		Assistant Professor of Medicine	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Federico II University Sch. Medicine, Naples, University of Florence School of Medicine, Italy	M.D.	1986 1989	Medicine Clinical Immunology
Tor Vergata University Sch. Medicine, Rome, The Johns Hopkins Sch. Medicine, Baltimore,	Ph.D.	1995 1995	Cardiovasc. Pathophys. Clinical Immunology

A. Positions and Honors

2006 Faculty, Inst. Computational Medicine, Johns Hopkins Sch. Engineering, Baltimore, MD
 2003 Investigator Award, Asthma and Allergy Foundation of America, Washington, DC
 2001- Faculty, Int. Doctorate in Mol. Oncology Endocrinology, Federico II University, Naples, Italy
 1999- Assistant Professor, Division of Clin. Immunology, Johns Hopkins University, Baltimore, MD
 1998-1999 Visiting Scientist, Kimmel Cancer Institute, Thomas Jefferson University, Philadelphia, PA
 1998-1999 Senior Investigator, Lab. of Hematology and Oncology, Chief Institute of Health, Rome, Italy
 1997- At-term Professor, Post-grad. Program of Clin. Immunology, Federico II University, Naples, Italy
 1996 "The Respiratory 2000 International Young Investigator Award", Schering-Plough, Kenilworth, NJ
 1996-1999 Visiting Asst. Professor, Division of Clin. Immunology, Johns Hopkins University, Baltimore, MD
 1994 Scholar in Allergy award, American Academy of Allergy, Asthma & Immunology, Milwaukee, WI
 1992 Fogarty International Fellowship, Public Health Service, NIH, Bethesda, MD
 1991 Research fellowship, National Research Council (CNR), Rome, Italy
 1990 Investigator Award, National AIDS Association (ANLAIDS), Rome, Italy
 1989 Schering-Plough Award, Italian Society of Allergy and Clinical Immunology, Milan, Italy
 1988 Extended Scholarship Award, the UCB Institute of Allergy, Brussels, Belgium

B. Selected Peer-reviewed Publications (in chronological order)

(Selected from 37 peer-reviewed publications)

Casolaro V., Galeone D., Giacummo A., Sanduzzi A., Melillo G., Marone G.: Human basophil/mast cell releasability. V. Functional comparisons of cells obtained from peripheral blood, lung parenchyma, and bronchoalveolar lavage in asthmatics. *Am. Rev. Respir. Dis.* 1989; 139:1375-82.

Marone G., Petracca R., Vigorita S., **Casolaro V.**: Adenosine receptors of human leukocytes—II: Characterization of an inhibitory P-site. *Biochem. Pharmacol.* 1990; 40:1963-73.

Casolaro V., Spadaro G., Marone G.: Human basophil releasability. VI. Changes in basophil releasability in patients with allergic rhinitis or bronchial asthma. *Am. Rev. Respir. Dis.* 1990; 142:1108-11.

Patella V., **Casolaro V.**, Björck L., Marone G.: Protein L: a bacterial Ig-binding protein that activates human basophils and mast cells. *J. Immunol.* 1990; 145:3054-61.

Columbo M., **Casolaro V.**, Warner J.A., MacGlashan D.W., Jr., Kagey-Sobotka A., Lichtenstein L.M.: The mechanism of mediator release from human basophils induced by platelet-activating factor (PAF). *J. Immunol.* 1990; 145:3855-61.

Casolaro V., Spadaro G., Patella V., Marone G.: In vivo characterization of the anti-inflammatory effect of cyclosporin A on human basophils. *J. Immunol.* 1993; 151:5563-73.

Casolaro V., Meliotta S., Marino O., Patella V., de Paulis A., Guidi G., Marone G.: Nimesulide, a sulfonanilide non-steroidal anti-inflammatory drug, inhibits mediator release from human basophils and mast cells. *J. Pharmacol. Exp. Ther.* 1993; 267:1375-85.

- Casolaro V.**, Georas S.N., Song Z., Zubkoff I.D., Abdulkadir S.A., Thanos D., Ono S.J.: Inhibition of NF-AT-dependent transcription by NF- κ B: Implications for differential gene expression in T helper cell subsets. *Proc. Natl. Acad. Sci. USA* 1995; 92:11623-7.
- Song Z., **Casolaro V.**, Chen R., Georas S.N., Monos D., Ono S.J.: Polymorphic nucleotides within the human IL-4 promoter that mediate overexpression of the gene. *J. Immunol.* 1996; 156:424-9.
- Abdulkadir S.A., **Casolaro V.**, Tai A.K.-F., Thanos D., Ono S.J.: High mobility group I/Y protein functions as a specific cofactor for Oct-2A: Mapping of interaction domains. *J. Leuk. Biol.* 1998; 64:681-91.
- Casolaro V.**, Georas S.N., Song Z., Ono S.J.: Molecular regulation of IgE synthesis and IL-4 gene expression. *Curr. Opin. Immunol.* 1996; 8:796-803.
- Georas S.N., Cumberland J.E., Burke T.F., Chen R., Schindler U., **Casolaro V.**: Stat6 downregulates the human interleukin 4 promoter. *Blood* 1998; 92:4529-38.
- Casolaro V.**, Cianferoni A., Georas S.N.: The molecular basis of IL-4 dysregulation in the atopic condition. *Int. J. Immunopathol. Pharmacol.* 1999; 12:33-5.
- Matsukura S., Stellato C., Plitt J.R., Bickel C., Miura K., Georas S.N., **Casolaro V.**, Schleimer R.P.: Activation of eotaxin gene transcription by nuclear factor kappa B (NF- κ B) and signal transducer and activator of transcription 6 (STAT6) in human airway epithelial cells. *J. Immunol.* 1999; 163:6876-83.
- Chen R., Burke T., Cumberland J., Brummet M., Beck L., **Casolaro V.**, Georas S.: Glucocorticoids inhibit calcium- and calcineurin-dependent activation of the interleukin-4 promoter. *J. Immunol.* 2000; 164:825-32.
- Nickel R.G., **Casolaro V.**, Wahn U., Beyer K., Barnes K.C., Plunkett B.S., Freidhoff L.F., Sengler C., Plitt J.R., Schleimer R.P., Caraballo L., Naidu R., Beaty T.H., Huang S.-K.: Atopic dermatitis is associated with a functional mutation in the promoter of the CC chemokine RANTES. *J. Immunol.* 2000; 164:1612-6.
- Georas S.N., Cumberland J.E., Burke T.F., Park E., Ono S.J., **Casolaro V.**: Characterization of a novel negative regulatory element in the human interleukin 4 promoter. *Leukemia* 2000; 14:629-35.
- Kim J., Sanders S.P., Siekierski E.S., **Casolaro V.**, Proud D.: Role of NF- κ B in cytokine production induced from human airway epithelial cells by rhinovirus infection. *J. Immunol.* 2000; 165:3384-92.
- Casolaro V.**, Keane-Myers A.M., Swendeman S.L., Steindler C., Zhong F., Sheffery M., Georas S.N., Ono S.J.: Identification and characterization of a critical CP2-binding element in the human IL-4 promoter. *J. Biol. Chem.* 2000; 275:36605-11.
- Barnes K.C., Mathias R.A., Nickel R., Freidhoff L.R., Stockton M.L., Xue X., Naidu R.P., Levett P.N., **Casolaro V.**, Beaty T.H.: Testing for gene-gene interaction controlling total IgE in families from Barbados: Evidence of sensitivity regarding linkage heterogeneity among families. *Genomics* 2001; 71:246-51.
- Cianferoni A., Schroeder J.T., Kim J., Schmidt J.W., Lichtenstein L.M., Georas S.N., **Casolaro V.**: Selective inhibition of IL-4 gene expression in human T cells by aspirin. *Blood* 2001; 97:1742-9.
- Guo J., **Casolaro V.**, Seto E., Yang W.M., Chang C., Seminario M.C., Keen J., Georas S.N.: Yin-Yang 1 activates interleukin-4 gene expression in T cells. *J. Biol. Chem.* 2001; 276:48871-8.
- Valapour M., Guo J., Keen J., Schroeder J.T., Cianferoni A., **Casolaro V.**, Georas S.N.: Histone deacetylation inhibits IL-4 gene expression in T cells. *J. Allergy Clin. Immunol.* 2002; 109:238-45.
- Schroeder J.T., Miura K., Kim H.H., Sin A., Cianferoni A., **Casolaro V.**: Selective expression of nuclear factor of activated T cells (NFAT)-2/c1 in human basophils: evidence for involvement in IgE-mediated IL-4 generation. *J. Allergy Clin. Immunol.* 2002; 109:507-13.
- Vonakis B.M., Sora R., Langdon J.M., **Casolaro V.**, MacDonald S.M.: Inhibition of cytokine gene transcription by the human recombinant histamine releasing factor (HrHRF) in human T lymphocytes. *J. Immunol.* 2003; 171:3742-50.
- Atasoy U., Curry S.L., López de Silanes I., Shyu A.B., **Casolaro V.**, Gorospe M., Stellato C.: Regulation of eotaxin gene expression by TNF- α and IL-4 through mRNA stabilization. *J. Immunol.* 2003; 171:4369-78.
- Saatian B., Yu X.Y., Lane A.P., Doyle T., **Casolaro V.**, Spannhake E.W.: Expression of genes for B7-H3 and other T cell ligands by nasal epithelial cells during differentiation and activation. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 2004; 287:L217-25.
- Georas S.N., Guo J., De Fanis U., **Casolaro V.**: T-helper cell type-2 regulation in allergic disease. *Eur. Respir. J.* 2005; 26:1119-1137.
- Keen J.C., Cianferoni A., Florio G., Guo J., Chen R., Roman J., Wills-Karp M., **Casolaro V.**, Georas S.N.: Characterization of a novel PMA-inducible pathway of interleukin-13 gene expression in T cells. *Immunology* 2006; 119:29-37.

C. Research Support**Ongoing Research Support**

R01 AI041463-09 Casolaro (PI)	07/01/97 - 12/31/07
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NIH/NIAID

Regulation of IL-4 in Cells Involved in Allergic Disease

The primary goals of this study are to understand the mechanisms of IL-4 gene regulation by CP2 and NF- κ B and their roles in differential gene expression in human and murine Th1 and Th2 clones.

R01 AI044242-06 Stellato (PI)	04/01/00 - 03/31/06
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NIH/NIAID

Regulation of C-C Chemokines in Human Airway Epithelium

The primary goal of this grant is to characterize factors regulating epithelial chemokine production and how these factors will have implications for the identification of relevant targets of glucocorticoid therapy.

R01 HL073952-04 Georas (PI)	07/01/03 - 12/31/07
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NIH/NHLBI

Yin-Yang-1: A Novel Transcription Factor in Th Responses

The goals of this project are to determine the mechanisms by which YY-1 regulates IL-4 gene expression, Th2 locus chromatin remodeling, and allergic airway inflammation using human and mouse model systems.

R21 AI059711-02 Spannhake (PI)	04/01/04 - 03/31/06
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NIH/NIAID

Bronchial Epithelial Cell Costimulation of CD4⁺ T Cells

The goal of this project is to develop a fully defined in vitro human syngeneic system in which the mechanisms of primary and secondary activation of CD4⁺ T cells by bronchial epithelial cells can be investigated.

R01 AI052468-04 Huang (PI)	07/01/03 - 12/31/07
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NIH/NIAID

Immunogenetic Analysis of Immune Response to Allergens

The goal of this project is to analyze, via a functional genomics approach, the impact of polymorphisms of human immune genes on immune function.

R01 AI060990-02 Stellato (PI)	04/01/05 - 12/31/09
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NIH/NIAID

RNA-binding Protein HuR in Allergic Inflammation

Overall, our research seeks to test the role of HuR in the pathogenesis of chronic allergic inflammation.

Completed Research Support

Barnes (PI)	04/01/99 - 12/31/01
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Center for Indoor Air Research

Genetic Susceptibility of Atopy and the Indoor Environment on Tangier Island

The main purpose of this project is to evaluate the interrelationship between indoor allergen exposure and other environmental factors.

0151500U Casolaro (PI)	07/01/01 - 06/30/03
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American Heart Foundation-MidAtlantic Affiliate

Inhibition of Interleukin-4 Expression by Aspirin

The focus of this study is to investigate aspirin, a widely used agent in the prevention of ischemic cardiovascular disease.