
Vincenzo Casolaro, M.D., Ph.D. • *Curriculum Vitae*

Signed: _____
(Vincenzo Casolaro)

Date: 1/23/2006

DEMOGRAPHIC INFORMATION

Current Appointment

Assistant Professor, Division of Clinical Immunology, Johns Hopkins University

Personal Data

Born November 20, 1960 in Naples, Italy. Married, with two children

Business address: The Johns Hopkins Asthma and Allergy Center, Room 2A.20A
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Education and Training

- 1974-79 *Sacro Cuore* Salesian High School (field: humanistic), Naples, Italy. Diploma conferred July 31, 1979 (score 60/60)
- 1980-86 School of Medicine and Surgery, Federico II University, Naples, Italy. M.D. October 28, 1986 (score 110 *cum laude*/110)
- 1984-86 Intern, Department of Medicine (Chairman: M. Condorelli, M.D.), Federico II University
- 1986-89 Postgraduate Program of Clinical Immunology and Allergy (Director: M. Ricci, M.D.), University of Florence, Florence, Italy
- 1988 Visiting fellow, Division of Clinical Immunology (Director: L.M. Lichtenstein, M.D., Ph.D.), Johns Hopkins University, Baltimore, Maryland (7/15-9/15)
- 1990-94 Ph.D. School of Cardiovascular Pathophysiology (Coordinator: C. Franconi, M.D.; Tutor: M. Condorelli, M.D.), Tor Vergata University, Rome, Italy. Graduated December 12, 1995
- 1990-92 Postdoctoral fellow, Division of Clinical Immunology and Allergy (Director: G. Marone, M.D.), Federico II University
- 1992-95 Postdoctoral fellow, Division of Clinical Immunology, Johns Hopkins University

Professional Experience

- 1996-99 Visiting Assistant Professor, Division of Clinical Immunology (Director: L.M. Lichtenstein, M.D., Ph.D.), Johns Hopkins University
- 1997- At-term Professor, Postgraduate Program of Clinical Immunology (Director: G. Marone, M.D.), Federico II University

- 1997-99 Senior Investigator, Laboratory of Hematology and Oncology (Director: C. Peschle, M.D.), Chief Institute of Health, Rome, Italy
- 1998-99 Visiting Scientist, Kimmel Cancer Research Institute (Director: C.M. Croce, M.D., Ph.D.), Thomas Jefferson University, Philadelphia, Pennsylvania
- 1999- Assistant Professor, Division of Clinical Immunology (Director: B.S. Bochner, M.D.), Johns Hopkins University
- 2006 Affiliated Faculty, Institute for Computational Medicine (Director: Raimond L. Winslow, Ph.D.), Johns Hopkins University, Whiting School of Engineering

RESEARCH ACTIVITIES

Publications

Peer-reviewed original research articles

1. **Casolaro V.**, Galeone D., Giacommo 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. *American Review of Respiratory Disease* 1989; 139:1375-1382.
2. **Casolaro V.**, Cirillo R., Genovese A., Formisano S., Ayala F., Marone G.: Human basophil releasability. IV. Changes in basophil releasability in patients with chronic urticaria. *Journal of Immunological Research* 1989; 1:67-73.
3. Marone G., **Casolaro V.**, Paganelli R., Quinti I.: IgG anti-IgE from atopic dermatitis induces mediator release from basophils and mast cells. *The Journal of Investigative Dermatology* 1989; 93:246-252.
4. Marone G., Petracca R., Vigorita S., **Casolaro V.**: Adenosine receptors of human leukocytes-II: Characterization of an inhibitory P-site. *Biochemical Pharmacology* 1990; 40:1963-1973.
5. **Casolaro V.**, Spadaro G., Marone G.: Human basophil releasability. VI. Changes in basophil releasability in patients with allergic rhinitis or bronchial asthma. *American Review of Respiratory Disease* 1990; 142:1108-1111.
6. Patella V., **Casolaro V.**, Björck L., Marone G.: Protein L: a bacterial Ig-binding protein that activates human basophils and mast cells. *The Journal of Immunology* 1990; 145:3054-3061.
7. 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). *The Journal of Immunology* 1990; 145:3855-3861.
8. Genovese A., Petracca R., Vigorita S., **Casolaro V.**, Marone G.: Adenosine receptors on human leukocytes. III. Characterization of an A₂/R_a receptor. *Journal of Immunological Research* 1991; 3:69-75.
9. Stellato C., **Casolaro V.**, Ciccarelli A., Mastronardi P., Mazzarella B., Marone G.: General anaesthetics induce only histamine release selectively from human mast cells. *British Journal of Anaesthesia* 1991; 67:751-758.
10. Stellato C., de Paulis A., Ciccarelli A., Cirillo R., Patella V., **Casolaro V.**, Marone G.: Anti-inflammatory effect of cyclosporin A on human skin mast cells. *The Journal of Investigative*

- Dermatology* 1992; 98:800-804.
11. Stellato C., Cirillo R., de Paulis A., **Casolaro V.**, Patella V., Mastronardi P., Mazzarella B., Marone G.: Human basophil/mast cell releasability. IX. Heterogeneity of the effects of opioids on mediator release. *Anesthesiology* 1992; 77:932-940.
 12. Marone G., Petracca R., Vigorita S., Genovese A., **Casolaro V.**: Adenosine receptors on human leukocytes. IV. Characterization of an A₁/R_i receptor. *International Journal of Clinical & Laboratory Research* 1992; 22:235-242.
 13. **Casolaro V.**, Spadaro G., Patella V., Marone G.: In vivo characterization of the anti-inflammatory effect of cyclosporin A on human basophils. *The Journal of Immunology* 1993; 151:5563-5573.
 14. **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. *The Journal of Pharmacology and Experimental Therapeutics* 1993; 267:1375-1385.
 15. Patella V., **Casolaro V.**, Ciccarelli A., Pettit G.R., Columbo M., Marone G.: The antineoplastic bryostatins affect human basophils and mast cells differently. *Blood* 1995; 85:1272-1281.
 16. **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-κB: Implications for differential gene expression in T helper cell subsets. *Proceedings of the National Academy of Sciences of the United States of America* 1995; 92:11623-11627.
 17. 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. *The Journal of Immunology* 1996; 156:424-429.
 18. 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. *Journal of Leukocyte Biology* 1998; 64:681-691.
 19. Georas S.N., Cumberland J.E., Burke T.F., Chen R., Schindler U., **Casolaro V.**: Stat6 inhibits human interleukin-4 promoter activity in T cells. *Blood* 1998; 92:4529-4538.
 20. 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-κB) and signal transducer and activator of transcription 6 (STAT6) in human airway epithelial cells. *The Journal of Immunology* 1999; 163:6876-6883.
 21. Chen R., Burke T., Cumberland J., Brummet M., Beck L., **Casolaro V.**, Georas S.: Glucocorticoids inhibit calcium- and calcineurin-dependent activation of the human IL-4 promoter. *The Journal of Immunology* 2000; 164:825-832.
 22. 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.P., Levett P.N., Beaty T.H., Huang S.-K.: Atopic dermatitis is associated with a functional mutation in the promoter of the CC chemokine RANTES. *The Journal of Immunology* 2000; 164:1612-1616.
 23. 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; 14:629-635.
 24. Burke T.F., **Casolaro V.**, Georas S.N.: Characterization of P5, a novel NFAT/AP-1 site in the

- human IL-4 promoter. *Biochemical and Biophysical Research Communications* 2000; 270:1016-1023.
25. 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. *The Journal of Immunology* 2000; 165:3384-3392.
 26. **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. *The Journal of Biological Chemistry* 2000; 275:36605-36611.
 27. 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; 71:246-251.
 28. 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; 97:1742-1749.
 29. Matsukura S., Stellato C., Georas S.N., **Casolaro V.**, Plitt J.R., Miura K., Kurosawa S., Schindler U., Schleimer R.P.: Interleukin-13 upregulates eotaxin expression in airway epithelial cells by a STAT6-dependent mechanism. *American Journal of Respiratory Cell and Molecular Biology* 2001; 24:755-761.
 30. 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. *The Journal of Biological Chemistry* 2001; 276:48871-48878.
 31. 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. *The Journal of Allergy and Clinical Immunology* 2002; 109:238-245.
 32. 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. *The Journal of Allergy and Clinical Immunology* 2002; 109:507-513.
 33. 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. *Journal of Immunology* 2003; 171:3742-3750.
 34. 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: Involvement of the RNA-binding protein HuR. *Journal of Immunology* 2003; 171:4369-4378.
 35. 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. *American Journal of Physiology: Lung Cellular and Molecular Physiology* 2004; 287:L217-L225.
 36. Rubinfeld J., Guo J., Sookrung N., Chen R., Chaicumpa W., **Casolaro V.**, Zhao Y., Natarajan V., Georas S.: Lysophosphatidic acid enhances interleukin-13 gene expression and promoter activity in T-cells. *American Journal of Physiology: Lung Cellular and Molecular Physiology* 2006; 290:L66-L74.
 37. 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.

Review articles

1. Marone G., **Casolaro V.**, Cirillo R., Condorelli M.: Heterogeneity of human mast cells and basophils. *The Italian Journal of Medicine* 1988; 4:124-129.
2. Ayala F., Balato N., Lembo G., Cirillo R., **Casolaro V.**, Marone G.: The relevance of releasability of chemical mediators in the pathogenesis of allergic disorders. *Italian General Review of Dermatology* 1987; 24:147-157.
3. Marone G., **Casolaro V.**, Cirillo R., Stellato C., Genovese A.: Pathophysiology of human basophils and mast cells in allergic disorders. *Clinical Immunology and Immunopathology* 1989; 50:S24-S40.
4. Marone G., **Casolaro V.**, Stellato C., de Paulis A., Genovese A.: Immunological and pharmacological heterogeneity of human FcεRI⁺ cells. *Journal of Chemotherapy* 1991; 3:55-58.
5. **Casolaro V.**: Modulation of mediator release from human primary effector cells by platelet-activating factor. *Allergy & Clinical Immunology News* 1991; 3:20-23.
6. Marone G., de Paulis A., Ciccarelli A., **Casolaro V.**, Cirillo R.: Mechanism(s) of action of cyclosporin A. *Seminars in Clinical Immunology* 1991; 2:11-16.
7. Stellato C., **Casolaro V.**, Ciccarelli A., de Crescenzo G., Patella V., Marone G.: Selective activation of human mast cells by general anesthetics. *Agents and Actions* 1992; 35:C191-C194.
8. Marino O., **Casolaro V.**, Meliotta S., Stellato C., Guidi G., Marone G.: Inhibition of histamine release from human FcεRI⁺ cells by nimesulide. *Agents and Actions* 1992; 35:C311-C314.
9. Marone G., de Paulis A., **Casolaro V.**, Ciccarelli A., Spadaro G., Cirillo R.: In vitro and in vivo characterization of the anti-inflammatory effects of cyclosporin A. *International Archives of Allergy and Immunology* 1992; 99:279-283.
10. Stellato C., **Casolaro V.**, Renda A., Genovese A., Marone G.: Anti-inflammatory effect of deflazacort. *International Archives of Allergy and Immunology* 1992; 99:340-342.
11. Triggiani M., **Casolaro V.**, Genovese A., Spadaro G., Marone G.: Heterogeneity of human FcεRI-bearing cells. *Annals of Allergy* 1993; 71:133-138.
12. **Casolaro V.**, Georas S.N., Marone G., Ono S.J.: Molecular mechanisms controlling interleukin-4 synthesis. *Forme* 1996; 7:11-19.
13. **Casolaro V.**, Georas S.N., Song Z., Ono S.J.: Biology and genetics of atopic disease. *Current Opinion in Immunology* 1996; 8:796-803.
14. Marone G., **Casolaro V.**, Patella V., Florio G., Triggiani M.: Molecular and cellular biology of mast cells and basophils. *International Archives of Allergy and Immunology* 1997; 114:207-217.
15. **Casolaro V.**, Steindler C., Georas S.N., Ono S.J.: Molecular mechanisms of interleukin-4 production. *International Journal of Immunopathology and Pharmacology* 1997; 10:1-5.
16. Keane-Myers A., **Casolaro V.**, Ono S.J.: Molecular basis and role of differential cytokine production in T helper cell subsets in immunologic disease. *Advances in Experimental Medicine and Biology* 1998; 438:479-484.
17. **Casolaro V.**, Cianferoni A., Georas S.N.: The molecular basis of IL-4 dysregulation in the

- atopic condition. *International Journal of Immunopathology and Pharmacology* 1999; 12:33-35.
18. Georas S.N., Guo J., De Fanis U., **Casolaro V.**: T-helper cell type-2 regulation in allergic disease. *European Respiratory Journal* 2005; 26:1119-1137.

Editorials

1. Marone G., **Casolaro V.**: Is there a role for anti-IgE autoantibodies in the pathogenesis of human inflammatory diseases? *Journal of Immunological Research* 1989; 3:105-110.
2. Elliott T., Bonneville M., Kruisbeek A., van Halem M.A., Walker P.R., **Casolaro V.**, Glaichenhaus N., Vyakarnam A., Casanova J.-L., Liu Y., Adkis C., Green A.: Immunology. *Current Opinion in Immunology* 2001; 13:255-264.

Book chapters and monographs

1. Marone G., **Casolaro V.**, Quinti I., Paganelli R., Spadaro G., Stellato C.: Mast cell and basophil activation by human anti-IgE autoantibodies. *In: Progress in Allergy and Clinical Immunology* (W.J. Pichler, B.M. Stadler, C. Dahinden, A.R. Péroud, P.C. Frei, C. Schneider, A.L. de Weck, eds.). Hogrefe & Huber Publishers, Seattle, Toronto, Bern, Göttingen, 1989, pp. 125-128.
2. **Casolaro V.**, Stellato C., Spadaro G., Marone G.: Alterations of immunoregulation in allergic diseases. *In: Immunoregulation and Lymphoproliferative Disorders* (F. Dammacco, ed.). Edi-Ermes, Milan, 1989, pp. 57-72.
3. Marone G., **Casolaro V.**, Ayala F., Melillo G., Condorelli M.: Releasability in allergic disorders. *In: Respiratory Allergy. Clinical Immunology*, vol. 2 (G. Melillo, P.S. Norman, G. Marone, eds.). B.C. Decker, Inc., Toronto, 1990, pp. 67-77.
4. Marone G., **Casolaro V.**, Celestino D., Bonini S.: The role of genetic and environmental factors in the control of basophil and mast cell releasability. *In: Genetic and Environmental Factors in Clinical Allergy* (D.G. Marsh, M.N. Blumenthal, eds.). University of Minnesota Press, Minneapolis, 1990, pp. 153-160.
5. Marone G., **Casolaro V.**: Basophil and mast cell releasability in allergic disorders. *In: Cellular Communications in Allergic Asthma* (S.G.O. Johansson, ed.). AW Grafiska, Uppsala, 1990, pp. 45-53.
6. Columbo M., **Casolaro V.**, Genovese A., Marone G.: Neurotransmitters and vasoactive mediator release. *In: Highlights in Allergy and Clinical Immunology* (B. Wüthrich, ed.). Hans Huber Publishers, Seattle, Toronto, Bern, Göttingen, 1992, pp. 26-28.
7. Marone G., de Paulis A., Ciccarelli A., **Casolaro V.**, Spadaro G., Cirillo R.: Antiinflammatory effects of cyclosporin A. *In: Progress in Allergy and Clinical Immunology*, vol. 2 (T. Miyamoto, M. Okuda, eds.). Hogrefe & Huber Publishers, Seattle, Toronto, Bern, Göttingen, 1992, pp. 388-392.
8. **Casolaro V.**, Stellato C., de Crescenzo G., Triggiani M., Marone G.: Mast cells, basophils and their mediators. *In: Asthma Treatment. A Multidisciplinary Approach* (D. Olivieri, P. Barnes, S. Hurd, G. Folco, eds.). Plenum Publishing Co., New York, London, 1992, pp. 63-79.
9. **Casolaro V.**, Spadaro G., Marone G.: Genetic studies of basophil releasability. *In: The Genetics of Asthma* (D.G. Marsh, A. Lockhart, S.T. Holgate, eds.). Blackwell Science Ltd., Oxford, Boston, Melbourne, Berlin, Tokyo, Paris, 1992, pp. 291-308.

10. Marone G., **Casolaro V.**, Spadaro G., Genovese A.: Bronchoalveolar lavage. *In: Bronchial Asthma: Mechanisms and Therapeutics* (E.B. Weiss, M. Stein, eds.). Little, Brown and Company, Boston, Toronto, London, 1992, pp. 309-313.
11. Marone G., de Paulis A., **Casolaro V.**, Ciccarelli A., Spadaro G., Patella V., Stellato C., Cirillo R., Genovese A.: Are the anti-inflammatory properties of cyclosporin A useful in the treatment of chronic asthma? *In: Respiratory Allergy: Advances in Clinical Immunology and Pulmonary Medicine* (G. Melillo, P.M. O'Byrne, G. Marone, eds.). Excerpta Medica Medical Communications, Amsterdam, Oxford, New York, Tokyo, 1993, pp. 251-260.
12. Abdulkadir S.A., **Casolaro V.**, Schwiebert L.S., Song Z., Ono S.J.: The major histocompatibility complex genes and their transcriptional regulation. *In: MHC Molecules: Expression, Assembly and Function* (R. Chicz, R.G. Urban, eds.). R.G. Landes Co., Austin, 1996, pp. 9-35.
13. Georas S.N., Burke T.F., Chen R., Cumberland J.E., **Casolaro V.**: The molecular basis of IL-4 dysregulation in the atopic condition. *In: Asthma and Allergic Diseases: Physiology, Immunopharmacology and Treatment* (G. Marone, S.T. Holgate, A.B. Kay, K.F. Austen, L.M. Lichtenstein, eds.). Academic Press Ltd., London, Burlington, San Diego, 1998, pp. 171-192.

Inventions, Patents, Copyrights

- Pending *Control of IL4 Production as a Therapeutic Regulator of Immune Function* (with S.J. Ono, Ph.D., S.L. Swendeman, Ph.D. and M. Sheffery, Ph.D.). Harvard University, Johns Hopkins University, Memorial Sloan-Kettering Cancer Center.
- Pending *The Gene MYPT1 Regulates Allergic Airways Disease* (with K.C. Barnes, Ph.D.). Johns Hopkins University.

Extramural Sponsorship

- 1997-03 NIH R29 AI41463: *Regulation of IL-4 in Cells Involved in Allergic Disease* (\$350,000 total direct cost). Principal investigator: V. Casolaro. Percent effort: 60.
- 2000-06 NIH R01 AI44242: *Regulation of C-C Chemokines in Human Airway Epithelium* (\$875,000 total/\$175,000 current year direct cost). Principal investigator: C. Stellato. Percent effort: 10.
- 2001-03 American Heart Association Mid-Atlantic Affiliate Grant-in-Aid Award 0151500U: *Inhibition of Interleukin-4 Expression by Aspirin: Definition of Novel Molecular Targets of Anti-inflammatory Salicylates* (\$120,000 total). Principal investigator: V. Casolaro. Percent effort: 30.
- 2003-07 NIH R01 AI041463: *Regulation of IL-4 in Cells Involved in Allergic Disease* (\$900,000 total/\$200,000 current). Principal investigator: V. Casolaro. Percent effort: 60.
- 2003-07 NIH R01 HL073952: *Yin-Yang-1: a Novel Transcription Factor in Th Responses* (\$1,000,000 total/\$250,000 current). Principal Investigator: S.N. Georas. Percent effort: 10.
- 2003-07 NIH R01 AI052468: *Immunogenetic Analysis of Immune Response to Allergens* (\$1,000,000 total/\$250,000 current). Principal investigator: S.K. Huang. Percent effort: 5.

- 2004-06 NIH R21 AI059711: *Bronchial Epithelial Cell Costimulation of CD4⁺ T Cells* (\$400,000 total/\$200,000 current). Principal Investigator: E.W. Spannhake. Percent effort: 10.
- 2005-09 NIH R01 AI060990: *RNA-binding Protein HuR in Allergic Inflammation* (\$1,187,500 total/\$187,500 current). Principal Investigator: C. Stellato. Percent effort: 10.
- Pending NIH R01: *Resolution of Asthma Exacerbations in the Inner City* (\$1,651,502 total requested). Principal Investigator: J. Krishnan. Percent effort: 10.

EDUCATIONAL ACTIVITIES

Mentoring

Post-doctoral advisees

- 1998-99 **Antonella Cianferoni**, M.D. (1/1/98-12/23/99)
 Postdoctoral Fellow, Department of Pediatrics
 University of Florence, Via Luca Giordano 13, I-50132 Florence, Italy
Present: Postdoctoral Fellow, Division of Immunology
 Children's Hospital, Harvard Medical School
 300 Longwood Avenue, Boston, MA 02115
Extended Scholarship Award, the UCB Institute of Allergy (Brussels, Belgium)
- 1999 **Giovanni Florio**, M.D. (7/24-9/24)
 Postdoctoral Fellow, Division of Clinical Immunology
 Federico II University, Via S. Pansini 5, I-80131 Naples, Italy
Present: Ph.D. Student in Clinical Pathophysiology and Experimental Medicine
 Federico II University, Via S. Pansini 5, I-80131 Naples, Italy
- 2000 **Antonella Cianferoni**, M.D. (7/1-9/30)
 Postdoctoral Fellow, Department of Pediatrics
 University of Florence, Via Luca Giordano 13, I-50132 Florence, Italy
- 2001 **Laura Proietti Pannunzi**, M.D. (4/1-9/30)
 Postdoctoral Fellow, Division of Endocrinology
 La Sapienza University, Viale Regina Elena 324, I-00185 Rome, Italy
- 2003-05 **Umberto De Fanis**, M.D. (6/1/03-9/19/05)
 Ph.D. Student, VI Division of Internal Medicine and Immunoallergology
 Second University of Naples, Piazza Miraglia 2, I-80138 Naples, Italy
- 2004 **Maria Bova**, M.D. (7/1-9/30)
 Postdoctoral Fellow, Division of Clinical Immunology
 Federico II University, Via S. Pansini 5, I-80131 Naples, Italy
- 2004-06 **Francesca Mori**, M.D. (7/1/04-12/20/05)
 Postdoctoral Fellow, Department of Pediatrics
 University of Florence, Via Luca Giordano 13, I-50132 Florence, Italy

Pre-doctoral advisees

- 1996 **Corinna Steindler**, M.B.S. (7/15-9/15)
Intern, Nucleic Acids Center, Department of Genetics and Molecular Biology
University of Rome, Piazzale Aldo Moro 3, I-00161 Rome, Italy
Present: Postdoctoral Fellow, Laboratory of Cytokine Signalling
Institut Pasteur, 28 Rue du Docteur Roux, F-75015 Paris, France
- 1998 **Wesley A. Lakenan** (9/1-12/31)
Senior, River Hill High School
Howard County Biotechnology Technology Magnet Program
12101 Route 108, Clarksville, MD 21029
- 1999 **Katayoon Shahrokh** (9/1-12/31)
Senior, River Hill High School
Howard County Biotechnology Technology Magnet Program
12101 Route 108, Clarksville, MD 21029
- 1999 **Nyethane Ngo** (10/10-11/1)
Medical Student, University College of London
Gower Street, London WC1E 6BT, United Kingdom
- 2000 **Jaimeganleong S. Reynolds** (6/1-8/31)
Sophomore, Cornell University
Baker Tower 524, Ithaca, NY 14853
Present: Ph.D. Student, Graduate Program in Biomedical Engineering
University of Rochester Medical Center
601 Elmwood Avenue, Rochester, NY 14642
- 2001 **Xiaosong Meng** (3/1-6/30)
Senior, River Hill High School
Howard County Biotechnology Technology Magnet Program
12101 Route 108, Clarksville, MD 21029
Present: M.D./Ph.D. Student, Medical Scientist Training Program
New York University Medical Center and School of Medicine
550 First Avenue, New York, NY 10016
- 2001-02 **Vishal Gupta** (9/1/01-5/31/02)
Senior, River Hill High School
Howard County Biotechnology Technology Magnet Program
12101 Route 108, Clarksville, MD 21029
Present: B.S., University of Maryland
College Park, MD 20742
- 2002 **Xiaosong Meng** (6/1-8/30)
Freshman, University of Maryland
College Park, MD 20742
- 2002-03 **Anna Hellquist**, M.M. (8/1/02-6/30/03)
Master in Medical Biology, University of Linköping, Faculty of Health Sciences
Hälsouniversitetet, Universitetssjukhuset, SE-581 85 Linköping, Sweden
Present: Ph.D. Student, Department of Biosciences at Novum
Karolinska Institutet, S-141 57 Huddinge, Sweden

- 2002 **Briana Stephenson** (9/1-12/31)
 Senior, River Hill High School
 Howard County Biotechnology Technology Magnet Program
 12101 Route 108, Clarksville, MD 21029
Present: Junior, Massachusetts Institute of Technology
 77 Massachusetts Avenue, Cambridge, MA 02139
- 2002-03 **Tory Holland** (9/1/02-5/31/03)
 Senior, Long Reach High School
 Howard County Biotechnology Technology Magnet Program
 6101 Old Dobbin Lane, Columbia, MD 21045
Present: Junior, Johns Hopkins University
 3400 North Charles Street, Baltimore, MD 21218
- 2003 **Youle Soh** (3/1-6/30)
 Senior, River Hill High School
 Howard County Biotechnology Technology Magnet Program
 12101 Route 108, Clarksville, MD 21029
Present: Junior, Pennsylvania State University
 Altoona, PA 16601
- 2003 **Xiaosong Meng** (6/1-8/30)
 Sophomore, University of Maryland
 College Park, MD 20742
- 2003 **Vishal Gupta** (7/1-8/30)
 Freshman, University of Maryland
 College Park, MD 20742
- 2003 **Sandy Chon** (9/1-12/31)
 Senior, River Hill High School
 Howard County Biotechnology Technology Magnet Program
 12101 Route 108, Clarksville, MD 21029
Present: Sophomore, Johns Hopkins University
 3400 North Charles Street, Baltimore, MD 21218
- 2003 **Nishant Parikh** (9/1-12/31)
 Senior, River Hill High School
 Howard County Biotechnology Technology Magnet Program
 12101 Route 108, Clarksville, MD 21029
Present: Sophomore, Virginia Commonwealth University
 Richmond, VA 23284
- 2004 **Vishal Gupta** (6/1-8/30)
 Sophomore, University of Maryland
 College Park, MD 20742
- 2004 **Tory Holland** (6/1-8/30)
 Freshman, Johns Hopkins University
 3400 North Charles Street, Baltimore, MD 21218
- 2004-05 **Nirmala Swayambunathan** (9/7/04-5/31/05)
 Senior, River Hill High School

Howard County Biotechnology Technology Magnet Program
12101 Route 108, Clarksville, MD 21029

Present: Freshman, Case Western Reserve University
10900 Euclid Avenue, Cleveland, OH 44106

2004-05 **Parth Talati** (9/7/04-5/31/05)

Senior, River Hill High School

Howard County Biotechnology Technology Magnet Program
12101 Route 108, Clarksville, MD 21029

Present: Freshman, University of Maryland
College Park, MD 20742

Thesis committees

2001 Committee Member

School of Hygiene and Public Health, Johns Hopkins University

Judith Clancy Keen, Ph.D. (7/12/01)

“Mechanisms of Molecular Regulation of Interleukin-4 and Interleukin-13 Gene Expression: the Role of NFAT and Its Implication in the Development of Allergic Asthma”

2005 Member, Board of Teachers, Final Examination

International Doctorate Program in Molecular Oncology and Endocrinology, 16th Cycle, School of Medicine, Federico II University (2/10/05)

Angela Arciello, Ph.D.

“Construction and Characterization of a Fully Human Antitumor ImmunoRNase Selective for ErbB2-Positive Carcinomas”

“The Analysis of the Role of the Membrane Transporter ABCC2/MRP2 in Multidrug Resistance (MDR) Phenotype”

Maria Domenica Castellone, M.D., Ph.D.

“Gene Expression Profile of RET/PTC-Transformed Thyroid Cells”

Ilaria Cavallari, Ph.D.

“Study of the Pattern of Expression of the Oncosuppressor Menin in Normal and Tumoral Tissues”

Teresa Guida, Ph.D.

“Role of the MCM7 Protein in Thyroid Carcinogenesis”

Stefania Santopietro, Ph.D.

“The Role of *ped/pea-15* in Determining Susceptibility to Skin Carcinogenesis”

Donata Vitagliano, Ph.D.

“Identification of Novel Inhibitors of the RET Kinase”

Editorial Activities

Editorial board appointments

2000-02 Member, Editorial Board for Paper Alerts, *Current Opinion in Immunology*

2001-03 Managing Editor, *Frontiers in Bioscience*

Journal peer review activities

- 1994- *The Journal of Allergy and Clinical Immunology*
- 1998- *Leukemia*
- 1999- *American Journal of Respiratory Cell and Molecular Biology*
- 1999- *Journal of Leukocyte Biology*
- 2001- *Experimental Biology and Medicine*
- 2002- *The Journal of Immunology*
- 2004- *Immunology*
- 2004- *Proceedings of the National Academy of Sciences of the USA*
- 2005- *The Journal of Biological Chemistry*

CLINICAL ACTIVITIES

Certification

- 1987 Unrestricted licence to practice of Medicine and Surgery in the European Community, Federico II University (February 16)
- 1987 Passed the basic (score 81) and clinical science components (score 77) of the Foreign Medical Graduate Examination in the Medical Sciences (Florence, Italy, July 21-22)
- 1989 European board in Clinical Immunology and Allergy, University of Florence (July 13; score 70 cum laude/70)

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

- 2001- Faculty and administrative contact, International Doctorate Program in Molecular Oncology and Endocrinology, Federico II University, The Johns Hopkins University
- 2004- Coordinator, weekly Research Conferences, Division of Allergy and Clinical Immunology, The Johns Hopkins University
- 2005- Secretary, the Johns Hopkins University Immunology Council.

Professional Societies

- 1987 Italian Society of Allergy and Clinical Immunology (SIAIC)
- 1988 Italian Society of Immunology and Immunopathology (SIII)
- 1994 American Academy of Allergy, Asthma and Immunology (AAAAI)
- 1999 The Johns Hopkins University Immunology Council

Advisory Committees, Review Groups

- 2003 The Wellcome Trust, London, United Kingdom
- 2004- Uniformed Services University of the Health Sciences Exploratory Research Award,

- Bethesda, MD
 2006 National Institute on Aging, Review Committee on Inflammation, Inflammatory Mediators and Aging, Bethesda, MD, March 15-17

RECOGNITION

Awards, Honors

- 1988 Extended Scholarship Award, the UCB Institute of Allergy (Brussels, Belgium)
 1989 Essex Award, Italian Society of Allergy and Clinical Immunology (Milan, Italy)
 1990 Investigator Award, National AIDS Association (ANLAIDS; Rome, Italy)
 1991 Research fellowship, National Research Council (CNR, Rome, Italy)
 1992 Fogarty International Fellowship, Public Health Service (Bethesda, Maryland)
 1994 Marion-Merrell Dow Scholar in Allergy award, American Academy of Allergy, Asthma and Immunology (Milwaukee, Wisconsin)
 1996 Schering-Plough International "The Respiratory 2000 International Young Investigator Award" (Kenilworth, New Jersey)
 2003 Asthma and Allergy Foundation of America Investigator Award (Washington, DC)

Invited Talks, Panels

- 12/89 "Basophil Activation by Protein L from *Peptococcus magnus*," 19th National Meeting, Italian Society of Allergy & Clinical Immunology, Bari, Italy
 05/90 "Heterogeneity of Human Basophils and Mast Cells," Annual Meeting, Italian Society of Allergy & Clinical Immunology, Ancona, Italy
 09/90 "Genetic Studies of Basophil Releasability," Workshop on "The Genetics of Asthma" (D.G. Marsh, A. Lockhart, and S.T. Holgate, presidents), Down Hall, United Kingdom
 05/91 "Measurement of Chemical Mediators in the Diagnostics of Allergic Diseases," Annual Meeting, Italian Society of Allergy & Clinical Immunology, Santa Margherita di Pula, Italy
 11/91 "Activation of FcεRI⁺ Cells by Anti-IgE Autoantibodies," 20th National Meeting, Italian Society of Allergy & Clinical Immunology, Rome, Italy
 11/93 "Transcriptional Regulation of the Interleukin-4 Gene," Annual Meeting, Italian Society of Allergy & Clinical Immunology (G. Marone, president), Naples, Italy
 03/96 "The Role of NF-κB in Human Interleukin-4 Transcription," Workshop on "Transcription Factors Regulating IL-4 and ε Gene Expression," European Science Foundation (E. Maggi, president), Florence, Italy
 11/96 "Inhibition of NF-AT-dependent Transcription by NF-κB," The Respiratory 2000 International Award Ceremony, Schering-Plough, Kenilworth, New Jersey
 04/97 "Molecular Mechanisms of Interleukin-4 Expression," 3rd International Consensus Conference on Allergology and Clinical Immunology (G. Gasbarrini, president; A. Venuti, secretary), Rome, Italy
 05/97 "Molecular Basis of IL-4 Dysregulation in the Atopic Condition," V International

- Asthma Conference on “Asthma and Allergic Diseases: Physiology, Immunopharmacology and Treatment”(G. Marone, K.F. Austen, S.T. Holgate, A.B. Kay, and L.M. Lichtenstein, presidents), Ischia, Italy
- 06/98 “Transcriptional Regulation of the Human Interleukin-4 Gene,” Division of Allergy and Clinical Immunology (F. Aiuti, director), La Sapienza University School of Medicine, Rome, Italy
- 04/99 “The Molecular Basis of Interleukin-4 Dysregulation in the Atopic Condition,” II International Symposium on Occupational and Environmental Allergy and Immune Diseases (F. Cuccurullo, president), Chieti, Italy
- 03/01 “Transcription Factors and T-Cell Cytokine Synthesis,” Breakfast Seminar, 57th Annual Meeting, American Academy of Allergy, Asthma & Immunology, New Orleans, Louisiana
- 03/02 “Transcription Factors and T-Cell Cytokine Synthesis,” Breakfast Seminar, 58th Annual Meeting, American Academy of Allergy, Asthma & Immunology, New York, New York
- 03/04 “Nucleosome Remodeling and Gene Expression,” Seminar on “Gene Expression: Beyond Transcription Factors,” 60th Annual Meeting, American Academy of Allergy, Asthma & Immunology, San Francisco, California
- 09/04 “Mechanisms of Th2 Cell Development and Function,” Immunology Council Seminar Series, Mountcastle Auditorium, Johns Hopkins University
- 07/05 “Gene Regulation in Effector T Cells,” Scientific Seminar Series, Second University of Naples, Naples, Italy
- 04/06 “NF-κB Species in T Helper Cell Differentiation,” Cystic Fibrosis Group, Johns Hopkins University
- 10/06 “Immunomodulation of Allergy,” Workshop on “Immunology of Ocular Allergy” (S. Ono, T. Bieber, and M. Zierhut, presidents), Ettal, Germany

OTHER PROFESSIONAL ACCOMPLISHMENTS

Selected Abstracts (2002 to date)

1. Haliassos N., **Casolaro V.**, Holt K., Ray A., Georas S., Guo J.: GATA-3 activates the IL-13 gene promoter in T cells. *The Journal of Allergy and Clinical Immunology* 2002; 109:S401.
2. Rubenfeld J., Guo J., Cummings R., Natarajan V., **Casolaro V.**, Georas S.: Lysophosphatidic acid (LPA) amplifies IL-13 expression in submaximally stimulated T cells. *American Journal of Respiratory and Critical Care Medicine* 2002.
3. Zambelli-Weiner A., Farkas D.H., Chan V., Mathias R.A., **Casolaro V.**, Barnes K.C.: The transcriptional factor LBP-1c/CP2/LSF gene in chromosome 12q13 is not associated with asthma in two independent populations. *American Journal of Human Genetics* 2002; 71:356.
4. Kurnat R.J., Georas S.N., Curry S., Meng X., Huang S., Cunningham J.M., Stellato C., **Casolaro V.**: The transcription factor CP2 is required for IL-4 gene activation in effector Th cells. *The Journal of Allergy and Clinical Immunology* 2003.
5. Saatian B., Yu X.Y., Lane A.P., **Casolaro V.**, Spannhake E.W.: Concordance of expression of

- genes for cell surface immune molecules between nasal epithelial cells from nasal brushing and cells grown in culture at the air liquid interface. *American Journal of Respiratory and Critical Care Medicine* 2003.
6. Georas S., Yamagata T., Ray A., **Casolaro V.**, Guo J.: GATA-3 is inducibly acetylated in T cells and activates the IL-13 promoter. *The FASEB Journal* 2003; 17:C102.
 7. Guo J., **Casolaro V.**, Kurnat R., Shi Y., Georas S.: Yin-Yang-1 regulates allergic immune responses and Th cytokine gene expression. *The FASEB Journal* 2003; 17:C102.
 8. Hellquist A.S., De Fanis U., Holland T.S.L., Gupta V., Kurnat R.J., Cianferoni A., **Casolaro V.**: Activation of nuclear factor of activated T cells (NFAT) molecular species by aspirin (acetylsalicylic acid: ASA) in human T cells. *The Journal of Allergy and Clinical Immunology* 2004; 113:S252.
 9. Guo J., Shi Y., **Casolaro V.**, Georas S.: Allergic airway inflammation is blunted in YY1 deficient mice. *American Journal of Respiratory and Critical Care Medicine* 2004.
 10. De Fanis U., Bova M., Lee W., Kurnat R.J., **Casolaro V.**: Polarized expression of GATA3 is not sufficient for CRTH2 and IL-4 gene activation in differentiated human Th2 clones. *The Journal of Allergy and Clinical Immunology* 2005; 115:S135.
 11. Mori F., Hellquist A.S., Holland T.S.L., Cianferoni A., De Fanis U., **Casolaro V.**: Enhancement of NFAT activation and function by aspirin in T cells. *Pediatric Research* 2005; 58:398.
 12. Chian C.F., Gao P.S., De Fanis U., **Casolaro V.**, Adkinson N.F., Jr., Huang S.K.: Phenotypic assessment of a functional sequence variant of the gene encoding human chemoattractant receptor-homologous molecule expressed on Th2 cells (CRTH2). *The Journal of Allergy and Clinical Immunology* 2006; submitted.
 13. De Fanis U., Mori F., Limb S.L., Hamilton R.G., Adkinson N.F., Jr., **Casolaro V.**: Expression of polarized T-cell surface markers in respiratory allergy. *The Journal of Allergy and Clinical Immunology* 2006; in press.
 14. Kurnat R.J., De Fanis U., Lee W., Georas S.N., Guo J., **Casolaro V.**: Differential expression of NF- κ B molecular species in Th1 and Th2 cells. *The Journal of Allergy and Clinical Immunology* 2006; in press.
 15. Mori F., De Fanis U., Kurnat R.J., Lee W., **Casolaro V.**: Aspirin exerts opposite regulation of CD154 and cytokine gene expression in human Th1 and Th2 cells. *The Journal of Allergy and Clinical Immunology* 2006; in press.