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# Vincenzo Casolaro, M.D., Ph.D. – *Curriculum Vitae*

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Signed: \_\_\_\_\_  
(Vincenzo Casolaro)

Date: 7/26/10 3:19 PM

## DEMOGRAPHIC AND PERSONAL INFORMATION

### Current Appointment

Associate Professor, Division of Clinical Immunology, Johns Hopkins University

### Personal Data

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### Education and Training

- 1980-86 School of Medicine and Surgery, Federico II University, Naples, Italy. M.D. October 28, 1986 (score 110/110 *cum laude*)
- 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, MD (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
- 1998-99 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, PA
- 1999-06 Assistant Professor, Division of Clinical Immunology (Director: B.S. Bochner, M.D.), Johns Hopkins University
- 2006-07 Affiliated Faculty, Institute for Computational Medicine (Director: R.L. Winslow, Ph.D.), Johns Hopkins University, Whiting School of Engineering
- 2006 Associate Professor, Division of Clinical Immunology, Johns Hopkins University
- 2008-11 Visiting Associate Professor, Mucosal Biology Research Center (Director: A. Fasano, M.D.), University of Maryland Medical Center, Baltimore, MD

## RESEARCH ACTIVITIES

### Publications

#### *Peer-reviewed articles*

1. **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. *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. *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. *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). *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 A<sub>2</sub>/R<sub>a</sub> 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. *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 A<sub>1</sub>/R<sub>i</sub> 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. *Journal of Immunology* 1993; 151:5563-5573
  14. **Casolaro V.**, Meliota 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. *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- $\kappa$ B: Implications for differential gene expression in T helper cell subsets. *Proceedings of the National Academy of Sciences of the USA* 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. *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- $\kappa$ B) and signal transducer and activator of transcription 6 (STAT6) in human airway epithelial cells. *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. *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. *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- $\kappa$ B in cytokine production induced from human airway epithelial cells by rhinovirus infection. *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. *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. *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. *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. *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- $\alpha$  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
38. De Fanis U., Mori F., Kurnat R.J., Lee W., Bova M., Adkinson N.F., **Casolaro V.**: *GATA3* upregulation restricted by surface expression of CD294/CRTH2: a unique feature of human Th cells. *Blood* 2007; 109:4343-4350
39. Boin F., De Fanis U., Bartlett S.J., Wigley F.M., Rosen A., **Casolaro V.**: T cell polarization identifies distinct clinical phenotypes in scleroderma lung disease. *Arthritis & Rheumatism* 2008; 58:1165-1174
40. **Casolaro V.**, Fang X., Tancowny B., Fan J., Wu F., Srikantan S., Asaki S.Y., De Fanis U., Huang S.K., Gorospe M., Atasoy U.X., Stellato C.: Posttranscriptional regulation of IL-13 in T cells: role of the RNA-binding protein HuR. *Journal of Allergy and Clinical Immunology* 2008; 121:853-859
41. De Fanis U., Wang G.C., Fedarko N.S., Walston J.D., **Casolaro V.**, Leng S.X.: T-lymphocytes expressing CC chemokine receptor-5 are increased in frail older adults. *Journal of the American Geriatrics Society* 2008; 56:904-908
42. Sapone A., Lammers K.M., Mazzarella G., Mikhailenko I., Carteni M., **Casolaro V.**, Fasano A.: Differential mucosal IL-17 expression in two gliadin-induced disorders: gluten sensitivity and the autoimmune enteropathy celiac disease. *International Archives of Allergy and Immunology* 2009; 152:75-80
43. Wang G.C., Kao W.H.L., Murakami P., Xue Q., Chiou R.B., Detrick B., McDyer J.F., Semba R.D., **Casolaro V.**, Walston J.D., Fried L.P.: Cytomegalovirus infection and the risk of mortality and frailty in older women: a prospective observational cohort study. *American Journal of Epidemiology* 2010; 171:1144-1152
44. Sapone A., Lammers K.M., **Casolaro V.**, Cammarota M., Giuliano M.T., De Rosa M., Stefanile R., Mazzarella G., Tolone C., Papparella A., Russo M.I., Esposito P., Ferraraccio F., Carteni M., Riegler G., de Magistris L., Fasano A.: Divergence of gut permeability and mucosal immune gene expression in two gluten-associated conditions, celiac disease and gluten sensitivity. *Gut* 2010; submitted

45. Stellato C., Gubin M., Fang X., **Casolaro V.**, Atasoy U.: Regulation of *GATA3* expression and Th2-cell development by the RNA-binding protein HuR. *Journal of Immunology* 2010; submitted
46. Lammers K.M., Khandelwal S., **Casolaro V.**, Fasano A.: Identification of a novel immunomodulatory gliadin peptide that causes interleukin-8 release in a chemokine receptor CXCR3-dependent manner only in celiac disease patients. *Journal of Immunology* 2010; submitted

### **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 Funding**

- 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 direct cost). Principal investigator: C. Stellato. Co-investigator at 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 direct cost). Principal investigator: V. Casolaro. Percent effort: 30
- 2003-07 NIH R01 HL073952: *Yin-Yang-1: a Novel Transcription Factor in Th Responses* (\$1,000,000 total direct cost). Principal investigator: S.N. Georas. Co-investigator at percent effort: 10
- 2003-07 NIH R01 AI052468: *Immunogenetic Analysis of Immune Response to Allergens* (\$1,000,000 total direct cost). Principal investigator: S.K. Huang. Co-investigator at percent effort: 5
- 2003-08 NIH R01 AI041463: *Regulation of IL-4 in Cells Involved in Allergic Disease* (\$900,000 total direct cost). Principal investigator: V. Casolaro. Percent effort: 60
- 2004-06 NIH R21 AI059711: *Bronchial Epithelial Cell Costimulation of CD4<sup>+</sup> T Cells* (\$400,000 total direct cost). Principal investigator: E.W. Spannhake. Co-investigator at percent effort: 10
- 2005-10 NIH R01 AI060990: *RNA-binding Protein HuR in Allergic Inflammation* (\$1,187,500 total direct cost). Principal investigator: C. Stellato. Co-investigator at percent effort: 10
- 2007-08 NIH S10 RR023630: *Flow Cytometry Core Center BD FACSAria* (\$500,000 total direct cost). Principal investigator: M.J. Soloski

- 2008-11 NIH R21 AT004089: *VSL for Asthma* (\$364,750 total direct cost). Principal Investigator: A. Fasano. Co-investigator at percent effort: 50
- 2009-11 Sanofi-Aventis: *Pulmonary Expression of CRTH2 and PGDS Isozymes in Severe COPD* (\$116,192 total direct cost). Principal investigator: V. Casolaro. Percent effort: 30
- 2010-11 Bill and Melinda Gates Foundation, Grand Challenges Explorations Grant 1015126: *Fine-tuning Mucosal Barrier Function for Vaccine Delivery* (\$100,000 total direct cost). Principal investigator: V. Casolaro. Percent effort: 20
- Pending NIH R01 AI020253: *Regulation of Secretion from Human Basophils* (\$1,250,000 total direct cost). Principal investigator: D.W. MacGlashan. Co-investigator at percent effort: 10
- Pending Department of Defense CDMRP PR093138: *Characterization of a Mucosal Checkpoint in Allergen-initiated Responses in Childhood Asthma* (\$750,000 total direct cost). Principal investigator: V. Casolaro. Percent effort: 40
- Pending NIH R01 DK087829: *Gliadin Peptides, Zonulin-mediated Increased Intestinal Permeability and Autoimmunity* (\$1,250,000 total direct cost). Principal investigator: A. Fasano. Co-investigator at percent effort: 5
- Pending NIH R01 HL105750: *Zonulin Regulation of Mucosal Barrier Function in Airway Inflammation and Asthma* (\$1,250,000 total direct cost). Principal investigator: V. Casolaro. Percent effort: 25

## EDUCATIONAL ACTIVITIES

### Educational Publications

#### *Review articles*

1. 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
2. Marone G., **Casolaro V.**, Cirillo R., Condorelli M.: Heterogeneity of human mast cells and basophils. *The Italian Journal of Medicine* 1988; 4:124-129
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<sup>+</sup> 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 cy-

- closporin 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.**, Meliota S., Stellato C., Guidi G., Marone G.: Inhibition of histamine release from human FcεRI<sup>+</sup> 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
  19. De Fanis U., Romano C., Sellitto A., Giunta R., **Casolaro V.**, Lucivero G.: Expression and function of surface molecules on Th1 and Th2 lymphocytes. *Italian Journal of Allergy and Clinical Immunology* 2007; 17:15-25

### **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. Pécoud, 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.). Ediz. 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
14. Lattanzi S., Mori F., Hellquist A., **Casolaro V.**: Immunomodulation in allergic diseases: When anti-inflammatory agents play immunomodulation. *In: Immunology of Ocular Allergy* (M. Zierhut, S.J. Ono, T. Bieber, eds.). Jaypee Brothers, New Delhi, 2009, pp. 220-247

## Teaching

### *CME Instruction*

- 06/06 Faculty, "T Cells and Inflammation," 20<sup>th</sup> Annual Update, Frontiers in Research and Clinical Management of Asthma and Allergy: From Bench to Bedside (P.S. Creticos and S.S. Saini, coordinators), Johns Hopkins Asthma and Allergy Center

### *Workshops and seminars*

- 09/90 Invited Speaker, "Genetic Studies of Basophil Releasability," Workshop on "The Genetics of Asthma" (D.G. Marsh, A. Lockhart, and S.T. Holgate, presidents), Down Hall, UK
- 05/91 Invited Speaker, "Measurement of Chemical Mediators in the Diagnostics of Allergic Diseases," Annual Meeting, Italian Society of Allergy & Clinical Immunology, Santa Margherita di Pula, Italy
- 03/96 Invited Speaker, "The Role of NF- $\kappa$ B in Human Interleukin-4 Transcription," Workshop on "Transcription Factors Regulating IL-4 and  $\epsilon$  Gene Expression," European Science Foundation (E. Maggi, president), Florence, Italy
- 03/01 Chairman, "Transcription Factors and T-Cell Cytokine Synthesis," Breakfast Seminar, 57<sup>th</sup> Annual Meeting, American Academy of Allergy, Asthma & Immunology, New Orleans, LA
- 03/02 Chairman, "Transcription Factors and T-Cell Cytokine Synthesis," Breakfast Seminar, 58<sup>th</sup> Annual Meeting, American Academy of Allergy, Asthma & Immunology, New York, NY
- 03/04 Invited Speaker, "Nucleosome Remodeling and Gene Expression," Seminar on "Gene Expression: Beyond Transcription Factors," 60<sup>th</sup> Annual Meeting, American Academy of Allergy, Asthma & Immunology, San Francisco, CA
- 10/06 Invited Speaker, "Immunomodulation of Allergy," Workshop on "Immunology of Ocular Allergy" (S. Ono, T. Bieber, and M. Zierhut, presidents), Ettal, Germany
- 12/06 Invited Speaker, "New Markers of Polarization of Human T Cells," Department of Biology and Cellular and Molecular Pathology, University of Naples Federico II,

Naples, Italy

## Mentoring

### *Post-doctoral advisees*

- 1998-00 **Antonella Cianferoni**, M.D. (1/1/98-12/23/99) (7/1-9/30/00)  
Postdoctoral Fellow, Department of Pediatrics  
University of Florence, Via Luca Giordano 13, I-50132 Florence, Italy  
*Present:* Assistant Professor, Department of Pediatrics  
University of Pennsylvania, Children's Hospital of Philadelphia  
3650 Civic Center Boulevard, Philadelphia, PA 19104-4318  
*Extended Scholarship Award, the UCB Institute of Allergy (Brussels, Belgium)*
- 1999 **Giovanni Florio**, M.D., Ph.D. (7/24-9/24)  
Postdoctoral Fellow, Division of Clinical Immunology  
Federico II University, Via S. Pansini 5, I-80131 Naples, Italy  
*Present:* M.D. Specialist, U.O. of Allergy and Clinical Immunology  
Agropoli Community Hospital, Contrada Marotta, I-84043 Agropoli, Italy  
*Extended Scholarship Award, the UCB Institute of Allergy (Brussels, Belgium)*
- 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
- 2003-06 **Umberto De Fanis**, M.D., Ph.D. (6/1/03-9/19/05) (7/1-9/30/06)  
Ph.D. Student, VI Division of Internal Medicine and Immunoallergology  
Second University of Naples, Piazza Miraglia 2, I-80138 Naples, Italy  
*Extended Scholarship Award, the UCB Institute of Allergy (Brussels, Belgium)*
- 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  
*Extended Scholarship Award, the UCB Institute of Allergy (Brussels, Belgium)*
- 2004-06 **Francesca Mori**, M.D. (7/1/04-12/20/05) (7/1-9/30/06)  
Postdoctoral Fellow, Department of Pediatrics  
University of Florence, Via Luca Giordano 13, I-50132 Florence, Italy  
*Extended Scholarship Award, the UCB Institute of Allergy (Brussels, Belgium)*
- 2007 **Sara Lattanzi**, M.D. (1/1-12/31)  
Postdoctoral Fellow, Departments of Dermatology and Clinical Pathology  
University of Perugia, Via Brunamonti 51, I-06122 Perugia, 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, UK
- 2000 **Jaimeeganleong S. Reynolds**, Ph.D. (6/1-8/31)  
Sophomore, Cornell University  
Baker Tower 524, Ithaca, NY 14853  
*Present:* Ph.D., Graduate Program in Biomedical Engineering  
University of Rochester Medical Center  
601 Elmwood Avenue, Rochester, NY 14642
- 2001-03 **Xiaosong Meng**, B.S. (3/1-6/30/01) (6/1-8/30/02) (6/1-8/30/03)  
Senior, River Hill High School  
Howard County Biotechnology Technology Magnet Program  
12101 Route 108, Clarksville, MD 21029  
Freshman/Sophomore, University of Maryland  
College Park, MD 20742  
*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
- 2001-04 **Vishal Gupta**, B.S. (9/1/01-5/31/02) (7/1-8/30/03) (6/1-8/30/04)  
Senior, River Hill High School  
Howard County Biotechnology Technology Magnet Program  
12101 Route 108, Clarksville, MD 21029  
Freshman/Sophomore, University of Maryland  
College Park, MD 20742
- 2002-03 **Anna Hellquist**, M.M.B. (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., 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
- 2002-06 **Tory Holland**, B.S. (9/1/02-5/31/03) (6/1-8/30/04) (6/1-8/30/06)  
 Senior, Long Reach High School  
 Howard County Biotechnology Technology Magnet Program  
 6101 Old Dobbin Lane, Columbia, MD 21045  
 Freshman/Junior, Johns Hopkins University  
 3400 North Charles Street, Baltimore, MD 21218  
*Howard Hughes Undergraduate Summer Research Fellowship*
- 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 **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
- 2003-05 **Nishant Parikh** (9/1-12/31/03) (6/1-8/20/05)  
 Senior, River Hill High School  
 Howard County Biotechnology Technology Magnet Program  
 12101 Route 108, Clarksville, MD 21029  
 Sophomore, Virginia Commonwealth University  
 Richmond, VA 23284
- 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
- 2007 **Valentina Guarino**, M.Pharm. (7/1-9/30)  
 Doctoral candidate, International Program in Molecular Oncology & Endocrinology

School of Medicine, Federico II University  
Via Sergio Pansini, 5, I-80131 Napoli

- 2007 **Paola Triggianese, M.D.** (8/1-10/31)  
Medical Student, Federico II University  
Via Sergio Pansini, 5, I-80131 Napoli

***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, 16<sup>th</sup> 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”
- 2006 Committee Member, Graduate Program in Immunology  
School of Medicine, Johns Hopkins University  
**Dallas Flies**, Doctoral candidate
- 2006 Committee Member, Graduate Program in Immunology  
School of Medicine, Johns Hopkins University  
**Jennifer Wind**, Doctoral candidate
- 2007 Committee Member, Graduate Program in Immunology  
School of Medicine, Johns Hopkins University  
**Tullia Bruno**, Doctoral candidate
- 2007 Committee Member, Graduate Program in Clinical Investigation  
School of Medicine, Johns Hopkins University

**George Wang, M.D.**, Doctoral candidate

2008 Member, Board of Teachers, Final Examination  
International Doctorate Program in Molecular Oncology and Endocrinology, 19<sup>th</sup>  
Cycle, School of Medicine, Federico II University (2/6/08)

**Savina Agnese**

“Mechanism of Signal Transduction Linking PGDF Receptor, Ras and ROS Production”

**Anna Teresa Alberobello**

“The Interaction between the Insulin-like Growth Factor 1 Receptor and PDK1 as a Potential Therapeutic Target in Neoplastic Cells”

**Ivana De Martino**

“Genechip Microarray Analysis of Pituitary Adenomas Developed by HMGA Transgenic Mice”

**Roberta De Mattia**

“Roscovitrine Compensates for Loss of p53 Function in S-phase Checkpoint: Implications for Combination Chemotherapy”

**Veronica De Rosa**

“Leptin and Autoimmunity: a Key Role of Leptin in the Control of Regulatory T Cell Proliferation”

**Iolanda Esposito**

“Molecular Mechanisms of Insulin Resistance: Role of the Endocannabinoid System in the Regulation of Glucose Metabolism and Insulin Action”

**Maria Letizia Giardino-Torchia**

“Mycoplasma and Tumors: Synergic Effect on Human Monocyte-derived Dendritic Cells Immunosuppressing Activity”

**Valentina Guarino**

“Functional Role of Chemokines in Thyroid Cancer: Biological Effects on Thyroid Cancer Epithelial Cells and on Thyroid Cancer Microenvironment”

**Irma Iacuzzo**

“Analysis of Oncolytic Adenovirus dl922/947 Effects on Anaplastic Thyroid Carcinoma Cells (ATC) and Potential Therapeutic Associations”

**Vincenza Leone**

“H4 (D10S170), a Gene Frequently Rearranged with RET in Papillary Thyroid Carcinomas: Functional Characterization”

**Simona Pisanti**

“Endocannabinoids as Emerging Suppressors of Angiogenesis and Breast Tumor Growth and Metastatic Spreading”

***Training grant participation***

- 1999-06 NIH T32 AI007056: *Basic and Clinical Immunology*. Principal investigator: N.F. Adkinson, Jr.
- 2006- NIH T32 AG000120: *Research Training in Gerontology & Geriatrics*. Principal investigator: N.S. Fedarko

- 2006- Paul B. Beeson Career Development Award: *Vaccine-induced Immunity against Influenza in Frailty*. Principal investigator: S.X. Leng
- 2006-08 Johns Hopkins Clinical Research Scholar KL2 (formerly K12) Program: *Inflammation and Restriction of T-cell Receptor Diversity in the Pathogenesis of Frailty of Old Age: the Role of Chronic CMV Infection*. Principal investigator: G.C. Wang
- 2007-12 NIH K23 AR055667: *T Cell Response in Scleroderma Lung Disease: from Pathogenesis to Clinical Care*. Principal investigator: F. Boin
- 2008-10 T. Franklin Williams Scholar/American Geriatrics Society Foundation for Health in Aging Award: *Immunology Dysregulations and Inflammation in the Pathogenesis of Frailty of Older Age: The Role of Chronic Cytomegalovirus Infection*. Principal investigator: G.C. Wang
- Pending NIH K23 AG033113: *CMV Infection and T-cell Receptor Diversity in the Pathogenesis of Frailty*. Principal investigator: G.C. Wang
- Pending NIH K23: *Macrophage Cytokines in Obesity*. Principal investigator: M. West
- Pending NIH K08: *The Regulation of Neutrophil Recruitment in Oxygen-induced ARDS*. Principal investigator: N. Aggarwal

## CLINICAL ACTIVITIES

### Certification

- 1987 Unrestricted license 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 70/70 *cum laude*)

## ORGANIZATIONAL ACTIVITIES

### Institutional Administrative Appointments

- 2001- Faculty and administrative contact, International Doctorate Program in Molecular Oncology and Endocrinology, Federico II University, Johns Hopkins University
- 2003- Member, Communication Committee, Division of Allergy and Clinical Immunology, Johns Hopkins University
- 2004- Coordinator, weekly Research Conferences, Division of Allergy and Clinical Immunology, Johns Hopkins University
- 2005-06 Secretary, Johns Hopkins University Immunology Council

2006- Member, Funding Committee, Division of Allergy and Clinical Immunology, Johns Hopkins University

## **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- *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- *Journal of Immunology*

2004- *Immunology*

2004- *Proceedings of the National Academy of Sciences of the USA*

2005- *Journal of Biological Chemistry*

2007- *Allergy & Clinical Immunology International—Journal of the World Allergy Org.*

2008- *Blood*

2008- *Clinical & Experimental Immunology*

2009- *European Journal of Immunology*

## **Advisory Committees, Review Groups, Study Sections**

1998- Howard County Public Schools Biotech Advisory Committee, Baltimore, MD

2003 The Wellcome Trust, London, UK

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

2006 National Heart, Lung and Blood Institute, Severe Asthma Research Program, Bethesda, MD, December 12

2008-09 Advisory Board, GTCbio 3<sup>rd</sup> Annual Immunodiagnostics & Immunomonitoring Conference, April 23-24, 2009, Chicago, IL

2009 National Heart, Lung and Blood Institute, NIH Challenge Grants in Health and Sci-

ence Research, American Recovery and Reinvestment Act of 2009, Bethesda, MD, July 20-21

### **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

## **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, MD)
- 1994 Marion-Merrell Dow Scholar in Allergy award, American Academy of Allergy, Asthma and Immunology (Milwaukee, WI)
- 1996 Schering-Plough International “The Respiratory 2000 International Young Investigator Award” (Kenilworth, NJ)
- 2003 Asthma and Allergy Foundation of America Investigator Award (Washington, DC)

### **Invited Talks, Panels**

- 12/89 “Basophil Activation by Protein L from *Peptococcus magnus*,” 19<sup>th</sup> 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
- 11/91 “Activation of FcεRI<sup>+</sup> Cells by Anti-IgE Autoantibodies,” 20<sup>th</sup> 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
- 11/96 “Inhibition of NF-AT-dependent Transcription by NF-κB,” The Respiratory 2000 International Award Ceremony, Schering-Plough, Kenilworth, NJ
- 04/97 “Molecular Mechanisms of Interleukin-4 Expression,” 3<sup>rd</sup> 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
- 12/01 “Regulation of IL-4 in T Cells,” Research Conference, Division of Allergy and Clinical Immunology, Johns Hopkins University
- 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
- 10/05 “The NF- $\kappa$ B Family: Effectors and Targets of Polarized Gene Expression in T Cells,” Research Conference, Division of Allergy and Clinical Immunology, Johns Hopkins University
- 04/06 “Molecular Markers of Polarized Effector Function in Human T Helper Cells,” Cystic Fibrosis Group, Johns Hopkins University
- 06/06 “Regulation of Human Th2 Cells: Some Second Thoughts,” Laboratory of Cellular and Molecular Biology,” National Institute on Aging, Baltimore, MD
- 11/06 “T Cells and Human Disease: New Markers of Polarized Effector Function,” Department of Pediatrics Grand Rounds, West Virginia University School of Medicine, Morgantown, WV
- 12/06 “New Markers of Polarized T-cell Effector Function,” Mucosal Biology Research Center, University of Maryland, Baltimore, MD
- 12/07 “New Markers of Polarized T-cell Function,” GTCbio 2<sup>nd</sup> Immunodiagnosics & Immunomonitoring: from Research to Clinic, Washington, DC
- 01/08 “Breaking the Th2 Code: Is CRTH2 the Key?,” Swiss Institute of Allergy and Asthma Research (SIAF), Davos, Switzerland
- 02/08 “The Th2 Phenotype: New Therapeutic Targets?,” Department of Immunology, Baxter AG, Vienna, Austria
- 02/08 “The Human Th2 Phenotype Revisited: Hints and Twists from CRTH2<sup>+</sup> Cells”, Centocor Research and Development, Inc., Wayne, PA
- 03/08 “Human Th2 Cells: What We Didn’t Know”, Bayview Lung Immunology Conference, Johns Hopkins University

## OTHER PROFESSIONAL ACCOMPLISHMENTS

### Selected Abstracts (2005 to date)

1. 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. *Journal of Allergy and Clinical Immunology* 2005; 115:S135
2. 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
3. Kurnat R.J., De Fanis U., Lee W., Georas S.N., Guo J., **Casolaro V.**: Differential expression of NF- $\kappa$ B molecular species in Th1 and Th2 cells. *Journal of Allergy and Clinical Immunology* 2006; 117:S177
4. 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). *Journal of Allergy and Clinical Immunology* 2006; 117:S195
5. 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. *Journal of Allergy and Clinical Immunology* 2006; 117:S201
6. 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. *Journal of Allergy and Clinical Immunology* 2006; 117:S247
7. Wang G.C., **Casolaro V.**, De Fanis U., Walston J., Leng S.: Alterations in T-cell subsets in frail older adults. *Journal of the American Geriatrics Society* 2006; 54:S12
8. Boin F., De Fanis U., Wigley F., Rosen A., **Casolaro V.**: Diverging T cell polarization identifies distinct clinical phenotypes in systemic sclerosis. *Arthritis & Rheumatism* 2006; 54:S486
9. Stellato C., Fang X., Tancowny B., Fan J., Wu F., Asaki S.Y., De Fanis U., Huang S., Gorospe M., Atasoy U., **Casolaro V.**: Role of the RNA-binding protein HuR in posttranscriptional regulation of IL-13 in T cells. *Journal of Allergy and Clinical Immunology* 2007; 119:S133
10. Khandelwal S., Lammers K.M., Kryszak D., **Casolaro V.**, Fasano A.: PBMC from a subpopulation of celiac patients respond to gliadin with interleukin-8 production that is CXCR3-dependent. *E-PAS* 2009; 4335.178
11. Sapone A., Giuliano M.T., Cammarota M., De Rosa M., Carteni M., Tolone C., Papparella A., Stefanile R., Mazzarella G., Russo M.I., Esposito P., **Casolaro V.**, Lammers K., Frattino A., de Magistris L., Riegler G., Fasano A.: Gluten sensitivity is associated to activation of the innate but not adaptive immune response to gluten exposure. *Gastroenterology* 2009; 136:M1700

12. Lammers K.M., Khandelwal S., Kryszak D., **Casolaro V.**, Fasano A.: PBMC from celiac patients but not healthy controls produce interleukin-8 in response to gliadin that is CXCR3-dependent. *Gastroenterology* 2009; 136:M2038
13. Sapone A., Lammers K., **Casolaro V.**, Riegler G., de Magistris L., Fasano A.: Gluten sensitivity is associated to activation of the innate but not Th1/Th17 immune response to gluten exposure. *Journal of Pediatric Gastroenterology and Nutrition* 2009; 49:E14
14. Lammers K., Khandelwal S., Kryszak D., **Casolaro V.**, Fasano A.: IL-8 production is CXCR3-dependent in a subpopulation of celiac patients. *Journal of Pediatric Gastroenterology and Nutrition* 2009; 49:E35
15. Gubin M.M., Stellato C., **Casolaro V.**, Tartar D.M., Magee J.D., Chen J., Calaluce R., Atasoy U.: RNA-binding protein HuR coordinately regulates genes essential for Th2 polarization and function at the posttranscriptional level. *Journal of Immunology* 2010; 184:187
16. Gubin M., Calaluce R., Magee J., **Casolaro V.**, Stellato C., Atasoy U.: The RNA binding protein, HuR, coordinately regulates mRNAs in breast cancer and CD4+ Th2 polarization. *Keystone Symposia on Molecular and Cellular Biology* 2010; in press