

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.

Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Roberto P. Garofalo, M.D.		POSITION TITLE Professor, Department of Pediatrics	
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
Liceo Ginnasio G. Carducci, Milano, Italy	Maturita'	1977	Liceo Classico
Universita' degli Studi di Milano, Milano, Italy	M.D.	1985	Medicine
Inst. for Biomedical Sciences, San Paolo Hospital, Milano		1985-1989	Pediatrics Residency
Children's Hospital, SUNY, Buffalo, NY		1989-1991	Fellowship (Inf. Dis.)

A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

Professional Positions:

1989-1991 Fellow and Instructor, Department of Pediatrics, Division of Infectious Disease, SUNY, Buffalo, NY.
 1991-1996 Assistant Professor, Department of Pediatrics, University of Texas Medical Branch (UTMB), Galveston, TX
 1996- Associate Professor, Department of Pediatrics, UTMB, Galveston, TX
 1998- Established Investigator, NICHD Child Health Research Center, UTMB, Galveston, TX
 Center Investigator, NIEHS Center for Toxicology, UTMB, Galveston, Texas
 1999- Director, TCIC Core, Asthma and Allergic Disease Research Center, UTMB, Galveston, TX
 2000- Associate Professor, Microbiology & Immunology, UTMB, Galveston, TX
 2001 Professor, Pediatrics and Microbiology & Immunology, UTMB, Galveston, Texas

Awards and Honors:

1985 "Summa cum Laude" M.D. Graduation Thesis - Universita' degli Studi di Milano, Milano, Italy
 1993 The 1993 Young Scientist's Lecture - European Society of Pediatric Infectious Disease, Helsinki, Finland
 1996 Young Investigator Award - Department of Pediatrics, University of Texas Medical Branch, Galveston, TX
 1997 Elected member, The Society for Pediatric Research

Service Activities:

1993 Member, NIH GCRC Review Section
 1998 Member, Breastfeeding Committee, Texas Department of Health
 2001 Member, NIH AADRC Study Section, ZAI1 NES-1 (M3)
 2003 Member, NIH Study Section ZRG1 SSS-F
 2004-08 Member, IMM IRG Study Section: Innate Immunity and Inflammation (III)

B. Selected peer-reviewed publications

- Garofalo, R., Sabry, M., Jamaluddin, M., Yu, K. R., Casola A., Ogra, P.L., and Brasier A.R. Transcriptional activation of the interleukin-8 gene by RSV infection in alveolar epithelial cells: nuclear translocation of the RelA transcription factor as a mechanism producing airway mucosal inflammation. *J Virol* 70:8773-8781, 1996.
- Saito, T., Deskin, R.W., Haeberle, H., Olzewska, B., Alam, R., Ogra, P.L., and Garofalo, R. Respiratory syncytial virus induces the selective release of RANTES by upper airway epithelial cells. *J Infect Dis* 175:497-504, 1997.
- Reyes, V.E., Ye, G., Ogra, P.L., and Garofalo, R. Mucosal antigen presentation: The players and the rules. *International Archives of Allergy and Immunology* 112:103-114, 1997.
- Brasier, A.R., Mohammad J., Casola, A., Duran W., Shen Q., and Garofalo, R. A promoter recruitment mechanism for TNF α -induced IL-8 transcription in type II pulmonary epithelial cells: Dependence on nuclear abundance of Rel A, NF-KB1 and c-Rel transcription factors. *J Biol Chem* 273:3551-3561, 1998.
- Olzewska-Pazdrack, B., Casola, A., Saito, T., Alam, R., Crow, S.E., Mei, F., Ogra, P.L., and Garofalo, R. Cell-specific expression of RANTES, MCP-1 and MIP-1 α by lower airway epithelial cells and eosinophils infected with respiratory syncytial virus. *J Virol* 1998; 72:4756-4764.
- Olszewska-Pazdrak, B., Pazdrak K., Ogra, P.L., and Garofalo, R. Respiratory syncytial virus-infected pulmonary epithelial cells induce eosinophil degranulation by a CD18-mediated mechanism. *J Immunol* 1998; 160:4889-4895.
- Mohammad J., Casola A., Garofalo, R., Han, Y., Elliott, T., Ogra, P.L., Brasier, A.R. RSV-induced I κ B proteolysis occurs independently of the TNF-activated proteasome pathway in infected pulmonary epithelial cells. *J Virol* 1998; 72:4849-4857.

8. Pazdrak, K., Olszewska-Pazdrak, B., Stafford, S., Garofalo, R., and Alam, R. Lyn, Jak2 and Raf-1 Kinases are critical for the anti-apoptotic effect of interleukin-5 whereas only Raf-1 Kinase is essential for eosinophil activation and degranulation. *J Exp Med* 1998; 188:421-429.
9. Casola, A., Garofalo, R.P., Jamaluddin, M., Vlahopoulos, S., and Brasier, A.R. Requirement of a novel upstream response element in RSV induced IL-8 gene expression. *J Immunol* 2000; 164:5944-5951.
10. Garofalo, R.P., and Haeberle, H. Epithelial regulation of innate immunity to RSV. *Am J Respir Cell Biol.* 2000; 23:581-585.
11. Haeberle, H.A., Kuziel, W.A., Hans-Juergen, D., Casola, A., Gatalica, Z., Garofalo, R.P. Inducible expression of inflammatory chemokines in respiratory syncytial virus-induced mice: Role of MIP-1 α in lung pathology. *J Virol.* 2001;75:878-890.
12. Jamaluddin, M., Wang, S., Garofalo, R.P., Elliott, T., Casola, A., Baron, S., Brasier, A.R. IFN- β mediates coordinate expression of antigen processing genes in RSV-infected pulmonary epithelial cells. *Am J Physiol* 2001;280:L248-L257.
13. Garofalo, R.P., Patti, J., Hintz, K.A., Hill, V., Ogra, P.L., Welliver, R.C. Macrophage Inflammatory Protein-1 α (Not T Helper Type 2 Cytokines) Is Associated with Sever Forms of Respiratory Syncytial Virus Bronchiolitis. *Journal of Infectious Diseases* 2001;184:393-9
14. Casola, A., Burger, N., Liu, T., Jamaluddin, M., Brasier, A.R., Garofalo, R.P. Oxidant tone regulates RANTES gene expression in airway epithelial cells infected with RSV. *J Biol Chem* 2001; 276:19715-19722
15. Zhang, Y., Luxon, B.A., Casola, A., Garofalo, R.P., Jamaluddin, M., and Brasier A.R. Expression of RSV-induced chemokine gene networks in lower airway epithelial cells revealed by cDNA microarrays *J Virol* 2001;75:9044-9058
16. Casola, A., Garofalo, R.P., Haeberle, H., Elliott, T., Jamaluddin, M., Brasier, A.R. Multiple *cis* regulatory elements control RANTES promoter activity in alveolar epithelial cells infected with respiratory syncytial virus. *J Virol* 2001;75:6428-6439.
17. Garofalo, R.P., Olszewska-Pazdrak, B., Ogra, P.L., Welliver, R.C. Beta-Chemokines in Nasal Secretions of Infants with Respiratory Syncytial Virus-Induced Respiratory Infections. *Pediatric Asthma Allergy and Immunology* 2001; 15:89-96
18. Pazdrak, K., Olszewska-Pazdrak, B., Liu, T., Takizawa R, Brasier A.R., Garofalo, R.P., Casola, A. MAPK activation is involved in posttranscriptional regulation of RSV-induced RANTES gene expression. *Am J Physiol* 2002;L364-372.
19. Haeberle, H., Nesti, F., Dieterich, H., Gatalica, Z., Garofalo, R.P. Perflubron reduces lung inflammation in respiratory syncytial virus infection by inhibiting chemokine expression and NF- κ B activation. *Am J Respir Crit Care Med* 2002; 165:1433-1438
20. Jartti, T., van den Hoogen, B., Garofalo, R.P., Osterhaus, A. DME, Ruuskanen, O. New human metapneumovirus and acute wheezing in children. *The Lancet* 2002;360:1393-1394
21. Welliver, R.C., Garofalo, R.P., Ogra, P.L. Beta-chemokines, but neither T helper type 1 nor T helper type 2 cytokines, correlate with severity of illness during respiratory syncytial virus infection. *Ped Infect Dis J* 2002;21:457-461.
22. Haeberle, H., Takizawa, R., Casola, A., Brasier, A.R., Hans-Juergen D., van Rooijen, R., Gatalica, Z., Garofalo, R.P. Respiratory syncytial virus-induced activation of NF- κ B in the lung involves alveolar macrophages and Toll-like receptor 4-dependent pathways *J Infect Dis* 2002;186:1199-1206
23. Haeberle, H., Casola, A., Gatalica, Z., Petronella S., Dieterich, H.-J., Ernst, P.B., Brasier, A.R., Garofalo, R.P. The I κ B kinase is a critical regulator of chemokine expression and lung inflammation in respiratory syncytial virus infection. *J Virol* 2004;78:2232-41
24. Garofalo R.P., Hintz K.H., Hill V., Ogra P.L., Welliver R.C. Production of interferon gamma in respiratory syncytial virus infection of humans is not associated with interleukins 12 and 18. *J Med. Virol* 2004;73:289-294
25. Liu T, Castro S, Jamaluddin M, Brasier AR, Garofalo RP and Casola A. ROS mediate viral-induced Stat activation: role of tyrosine phosphatases. *J Biol Chem* 2004;279:2461-69
26. Brasier AR, Spratt H, Wu Z, Boldogh I, Zhang Y, Garofalo RP, Casola A, Pashmi J, Haag A, Luxon B and A Kurosky. Nuclear Heat Shock Response and Novel Nuclear Domain 10 Reorganization in Respiratory Syncytial Virus-Infected A549 Cells Identified By High Resolution 2D Gel Electrophoresis. *J Virol* 2004; 78:11461-11476.
27. Garofalo R.P., Hintz K.H., Hill V., Patti J., Ogra P.L., Welliver R.C. A comparison of epidemiologic and immunologic features of bronchiolitis caused by influenza virus and respiratory syncytial virus. *J Med. Virol* (in press).