

Curriculum Vitae for Academic Promotion
The Johns Hopkins University School of Medicine

Kathleen Carole Barnes, Ph.D.

February, 2006

DEMOGRAPHIC INFORMATION

Current Appointments:

- | | |
|------|---|
| 2002 | Associate Professor in Medicine Division of Allergy & Clinical Immunology, School of Medicine Johns Hopkins University Baltimore, Maryland |
| 2004 | Mary Beryl Patch Turnbull Scholar Johns Hopkins University Baltimore, MD |
| 2004 | Director, Johns Hopkins Bayview Medical Center Genomics Core Johns Hopkins University Baltimore, MD |
| 2004 | Director, Johns Hopkins Bayview Genetic Research Facility Johns Hopkins University Baltimore, MD |
| 2000 | <i>Joint Appointment</i> Dept. of Epidemiology, School of Hygiene and Public Health Johns Hopkins University Baltimore, MD |
| 2003 | <i>Joint Appointment</i> Division of Pulmonary & Critical Care Medicine, School of Medicine Johns Hopkins University Baltimore, MD |

Personal Data:

JHU Asthma & Allergy Center, 3A.62A
5501 Hopkins Bayview Circle

Baltimore, MD 21224-6801
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Education and Training:

1979- 1982 (no degree) James Madison University, Harrisonburg, Virginia (Music, Pre-nursing)

B.S.N. 1984 Medical College of Virginia, Virginia Commonwealth University
Richmond, Virginia
Nursing

Ph.D. 1992 Dept. of Anthropology, The University of Florida
Gainesville, Florida
Biomedical Anthropology
Doctoral Dissertation: *The Role of Household Pests in the Epidemiological Transition of Allergy: Modernization of the Domestic Environment in Barbados.*

Postdoctoral Fellowship
1993 - 1994 Division of Clinical Immunology
Johns Hopkins University, School of Medicine
Baltimore, Maryland

1997 Short Course in Medical and Experimental Genetics, Jackson
Laboratory, Bar Harbor, Maine

Professional Experience:

1993–1994 Postdoctoral Fellow
Department of Medicine
Johns Hopkins University
Baltimore, Maryland

1995–1997 Instructor in Medicine
Department of Medicine
Johns Hopkins University
Baltimore, Maryland

1997–2002 Assistant Professor
Department of Medicine
Johns Hopkins University
Baltimore, Maryland

2002–present

Associate Professor
Department of Medicine
Johns Hopkins University
Baltimore, Maryland

RESEARCH ACTIVITIES

Publications:

Peer-Reviewed Original Research Articles:

1. **Barnes KC.** An Evolutionary Perspective on Malaria and Pregnancy. *Florida J Anthropology.* 1990; 15: 15-21.
2. **Barnes KC, Brenner RJ.** Quality of Housing and Allergy to Cockroaches in the Dominican Republic. *Int Arch Allergy Immunol.* 1996; 109: 68-72.
3. **Barnes KC, Neely JD, Duffy DL, Freidhoff LR, Breazeale DR, Schou C, Naidu RP, Levett PN, Renault B, Kucherlapati R, Iozzino S, Ehrlich E, Beaty TH, Marsh DG.** Linkage of asthma and total serum IgE concentration to markers on chromosome 12q: Evidence from Afro-Caribbean and Caucasian populations. *Genomics.* 1996; 37: 41-50.
4. **Barnes KC, Fernández-Caldas E, Trudeau WL, Milne DE, Brenner RJ.** Spatial and temporal distribution of the house dust mite (Astigmata: Pyroglyphidae) allergens *Der p I* and *Der fI* in Barbadian homes. *Journal of Medical Entomology.* 1997; 34(2): 212-218.
5. **CSGA (Collaborative Studies on the Genetics of Asthma).** A genome-wide search for asthma susceptibility loci in ethnically diverse populations. *Nature Genetics.* 1997; 15: 389-392.
6. Morgan MS, Arlian LG, **Barnes KC, Fernandez-Caldas E.** Characterization of the allergens of the house dust mite *Euroglyphus maynei*. *Journal of Allergy and Clinical Immunology.* 1997; 100: 222-228.
7. Nickel R, Wahn U, Hizawa N, Maestri N, Duffy DL, **Barnes KC, Beyer K, Forster J, Bergmann R, Zepp F, Wahn V, Marsh DG.** Evidence for linkage of chromosome 12q15-q24.1 markers and high total serum IgE concentrations in children of the German Multicenter Study (MAS '90). *Genomics.* 1997; 46: 159-162.
8. Hizawa N, Collins G, Rafnar T, Huang SK, Duffy DL, Weber JL, Freidhoff LR, Ehrlich E, Marsh DG, Beaty TH, **Barnes KC,** Collaborative Study on the Genetics of Asthma (CSGA). Linkage analysis of *Dermatophagoides pteronyssinus* (Der p)-specific IgE responsiveness with polymorphic markers on chromosome 6p21 (HLA-D region) in Caucasian families by Transmission/Disequilibrium Test (TDT). *Journal of Allergy and Clinical Immunology.* 1998; 102(3): 443-448.
9. Hizawa N, Freidhoff LR, Chiu YF, Ehrlich E, Luehr CA, Anderson JL, Duffy DL, Dunston GM, Weber JL, Huang SK, **Barnes KC, Marsh DG, Beaty TH,** Collaborative Study on the Genetics of Asthma (CSGA). Genetic regulation of *Dermatophagoides pteronyssinus* (Der p)-specific IgE responsiveness: A genome-wide multipoint linkage analysis in families recruited through two asthmatic sibs. *Journal of Allergy and Clinical Immunology.* 1998; 102(3): 346-442.

10. Hizawa N, Freidhoff LR, Ehrlich E, Chiu YF, Duffy DL, Schou C, Dunston GM, Beaty TH, Marsh DG, **Barnes KC**, Huang SK, Collaborative Study on the Genetics of Asthma (CSGA). Genetic influences of chromosomes 5q31-q33 and 11q13 on specific IgE responsiveness to common inhaled allergens among African American families. *Journal of Allergy and Clinical Immunology*. 1998; 102(3): 449-453.
11. Armelagos G, **Barnes KC**. The evolution of human disease and the rise of allergy: Epidemiological transitions. *Medical Anthropology*. 1998; 18(2).
12. **Barnes KC**, Freidhoff LR, Nickel R, Chiu YF, Juo SH, Hizawa N, Naidu RP, Ehrlich E, Duffy DL, Schou C, Levett PN, Marsh DG, Beaty TH. Dense mapping of chromosome 12q13.12 – q23.3 and linkage for asthma and atopy. *Journal of Allergy and Clinical Immunology*. 1999; 104(1, Pt. 2): 485-491.
13. Nickel R, Willadsen SA, Freidhoff LR, Huang SK, Raana NP, Caraballo L, Ehrlich E, Ober C, Beaty T, **Barnes KC**. Determination of Duffygenotypes in three populations of African descent using PCR and sequence specific oligonucleotides. *Human Immunology*. 1999; 60: 738-742.
14. **Barnes KC**, Freidhoff LR, Horowitz EM, Mathias RA, Mulkern DM, Bonacum J, Goldman MH, Polito A, Saini SS, Marsh DG, Beaty TH, Togias A. Physician-derived asthma diagnoses made on the basis of questionnaire data are in good agreement with interview-based diagnoses and are not affected by objective tests. *Journal of Allergy and Clinical Immunology*. 1999; 104: 791-796.
15. Nickel R, Casolaro V, Wahn U, Beyer K, **Barnes KC**, Plunkett B, Freidhoff LR, Sengler C, Plitt J, Schleimer RP, Caraballo L, Naidu RN, Beaty TH, Huang SK. Atopic dermatitis is associated with a functional mutation in the promoter of the CC chemokine RANTES. *Journal of Immunology*. 2000; Feb 1;164(3): 1612-1616.
16. Beyer K, Nickel R, Freidhoff LR, Bjoerksten B, Huang SK, **Barnes KC**, McDonald S, Forster J, Zepp F, Wahn V, Beaty T, Marsh DG, Wahn U. Association and linkage of atopic dermatitis with chromosome 13q12-14 and 5q3133 markers. *Journal of Investigative Dermatology*. 2000;115: 906-908.
17. Mathias RA, Bickel CA, Beaty TH, Petersen GM, Hetmanski JB, Liang KY, **Barnes KC**. A study of contemporary levels and temporal trends in inbreeding in the Tangier Island, Virginia, population using pedigree data and isonymy. *Am Journal of Physical Anthropology*. 2000; 112: 29-38.
18. Lonjou C, **Barnes KC**, Chen H, Cookson WO, Deichmann KA, Hall IP, Holloway JW, Laitinen T, Palmer LJ, Wjst M, Morton NE. A first trial of retrospective collaboration for positional cloning in complex inheritance: assay of the cytokine region on chromosome 5 by the Consortium On Asthma Genetics (COAG). *Proc Natl Acad Sci USA*. 2000; 97(20): 10942-7.
19. Mathias RA, Freidhoff LR, Blumenthal MN, Meyers DA, Lester L, King R, Xu JF, Solway J, **Barnes KC**, Pierce J, Stine OC, Togias A, Oetting W, Marshik PL, Hetmanski JB, Huang SK, Ehrlich E, Dunston GM, Malveaux F, Banks-Schlegel S, Cox NJ, Bleecker E, Ober C, Beaty TH, Rich SS, CSGA. Genome-wide linkage analyses of total serum IgE using variance components analysis in asthmatic families. *Gen Epidemiol*. 2001; 20: 340-355.
20. **Barnes KC**, Mathias RA, Nickel R, Freidhoff LR, Stockton ML, Xue X, Naidu RP, Levett PN, Casolaro V, Beaty TH. Testing for gene-gene interaction controlling total IgE in

families from Barbados: Evidence of sensitivity regarding linkage heterogeneity among families. *Genomics*. 2001; 71(2): 246-251.

21. Palmer LJ, Lonjou C, **Barnes K**, Chen H, Cookson WO, Deichmann KA, Holloway JW, Laitinen T, Wjst M, Morton NE. Special Report: A retrospective collaboration on chromosome 5 by the International Consortium on Asthma Genetics (COAG). *Clin Exp Allergy*. 2001; 31(1): 152-154.

22. Liang KY, Hsu FC, Beaty TH, **Barnes KC**. Multipoint linkage disequilibrium mapping approach based on the case-parent trio design. *Am. J. Hum. Genet.* 2001; 68: 937-950.

23. Xu J, Meyers DA, Ober C, Blumenthal MN, Mellen B, **Barnes KC**, King RA, Lester LA, Howard TD, Solway J, Langefeld CD, Beaty TH, Rich SS, Bleeker ER, Cox NJ, CSGA. Genomewide screen and identification of gene-gene interactions for asthma-susceptibility loci in three U.S populations: Collaborative Study on the Genetics of Asthma (CSGA). *Am J Hum Genet.* 2001; 68: 1437-1446.

24. Becker KG, **Barnes KC**. Underlying disease specificity of loci in atopic dermatitis. *J Invest Derm.* 2001; 117(5): 1325-1327.

25. Hsu FC, Liang KY, Beaty TH, **Barnes KC**. Unified sampling approach for multipoint linkage disequilibrium mapping of qualitative and quantitative traits. *Genetic Epidemiology*. 2002; 22(4): 298-312.

26. Huang SK, Mathias RA, Ehrlich E, Plunkett B, Liu X, Cutting GR, Wang XJ, Li XD, Togiias A, **Barnes KC**, Malveaux F, Rich S, Mellen B, Lange E, Beaty TH. Evidence for asthma susceptibility genes on chromosome 11 in an AfricanAmerican population. *Hum Genet.* 2003; 113: 71-75.

27. Manolio TA, **Barnes KC**, Naidu RP, Levett PN, Beaty TH, AF Wilson. Correlates of sensitization to *Blomia tropicalis* and *Dermatophagoides pteronyssinus* in asthma in Barbados. *Int Arch Allergy Immunol.* 2003; 131: 119-126.

28. Manolio TA, **Barnes KC**, Beaty TH, Levett PN, Naidu RP, Wilson AF. Sex differences in heritability of sensitization to *Blomia tropicalis* in asthma using regression of offspring on midparent (ROMP) methods. *Hum Genet.* 2003; 113(5): 437-46.

29. Blumenthal MN, Langefeld CD, Beaty TH, Bleeker ER, Ober C, Lester L, Lange E, **Barnes KC**, Wolf R, King RA, Solway J, Oetting W, Meyers DA, Rich SS. A genome-wide search for allergic response (atopy) genes in three ethnic groups: Collaborative Study on the Genetics of Asthma. *Hum Genet.* 2004; 114: 157-64.

30. **Barnes KC**, Caraballo L, Munoz M, Zambelli-Weiner A, Ehrlich E, Burki M, Jimenez S, Mathias RA, Stockton ML, Deindl P, Hershey GK, Nickel R, Wills-Karp M. A novel promoter polymorphism in the gene encoding complement component 5 receptor 1 (C5R1) on chromosome 19q13.3 is not associated with asthma and atopy in three independent populations. *Clin Exp Allergy*. 2004; 34: 736-44.

31. Garcia JGN, Nonas S, Kawkitinarong K, **Barnes KC**. SNPs, chips and functional genomics in acute lung injury. *Am J Resp Cell Mol Biol.* 2004; 31(2): S18-S22.

32. Becker KG, **Barnes KC**, Bright TJ, Wang SA. The Genetic Association Database. *Nat Genet.* 2004; 36(5): 431-32.

33. Blumenthal MN, Ober C, Beaty TH, Bleeker ER, Langefeld CD, King RA, Lester L, Cox N, **Barnes K**, Togiias A, Mathias R, Meyers DA, Oetting W, Rich SS for the CSGA. Genome

scan for loci linked to mite sensitivity: the Collaborative Study on the Genetics of Asthma (CSGA). *Genes & Immunity*. 2004; 5: 226-31.

34. Pillai SG, Cousens DJ, Barnes AA, Buckley PT, Chiano MN, Hosking LK, Cameron L-A, Fling ME, Foley JJ, Green A, Sarau HM, Schmidt DB, Sprankle CS, Blumenthal MN, Vestbo J, Kennedy-Wilson K, Wisted WE, Wagner MJ, Anderson WH, **investigators of the GAIN Network**, Ignar DM. A coding polymorphism in the CYSLT2 receptor with reduced affinity to LTD₄ is associated with asthma. *Pharmacogenetics*. 2004; 14: 627-33.

35. Huang JL, Gao PS, Mathias RA, Yao TC, Chen LC, Kuo ML, Hsu SC, Plunkett B, Togias A, **Barnes KC**, Stellato C, Beaty TH, Huang SK. Sequence variants of the gene encoding chemoattractant receptor expressed on Th2 cells (CRTH2) are associated with asthma and differentially influence mRNA stability. *Hum. Mol. Genet.* 2004; 13(21): 2691-97.

36. Ye SQ, Simon BA, Maloney JP, Zambelli-Weiner A, Gao L, Grant A, Easley RB, McVerry BJ, Tudor RM, Standiford T, Brower RG, **Barnes KC**, Garcia JGN. Pre-B-cell colony-enhancing factor as a potential novel biomarker in acute lung injury. *Am J Respir Crit Care Med*. 2005; 171: 361-70.

37. Zambelli-Weiner A, Ehrlich E, Stockton ML, Grant AV, Zhang S, Levett PN, Beaty TH, **Barnes KC**. Evaluation of the CD14/-260 polymorphism and house dust endotoxin exposure in the Barbados asthma genetics study. *J. Allergy Clin. Immunol.* 2005; 115: 1203-9.

38. Gao PS, Mathias RA, Plunkett B, Togias A, **Barnes KC**, Beaty TH, Huang SK. Genetic variants of the T-cell immunoglobulin mucin 1 (TIM-1), but not TIM-3, genes are associated with asthma in an African American population. *J Allergy Clin Immunol.* 2005; 115: 982-8.

39. Mathias RA, Beaty TH, Bailey-Wilson JE, Bickel C, Stockton ML, **Barnes KC**. Inheritance of total serum IgE in the isolated Tangier Island population from Virginia: complexities associated with genealogical depth of pedigrees in segregation analyses. *Human Heredity*. 2005; 59: 228-38.

40. **Barnes KC**, Grant AV, Baltadzhieva D, Zhang S, Berg T, Shao L, Zambelli-Weiner A, Anderson W, Nelsen A, Pillai S, Yarnall DP, Dienger K, Ingersoll RG, Scott AF, Fallin MD, Mathias RA, Beaty TH, Garcia JGN, Wills-Karp M. Variants in the gene encoding C3 are associated with asthma and related phenotypes among African Caribbean families. *Genes and Immunity*. 2006; 7: 27-35.

41. Pillai SG, Chiano MN, White NJ, **Barnes KC**, Carlsen K, Gerritsen J, Helms P, Lenney W, Silverman M, Sly P, Sundry J, Tsanakas J, von Berg A, Whyte M, Speer M, Varsani S, Skelding P, Hauser M, Vance J, Pericak-Vance M, Burns DK, Middleton LT, Brewster SR, Anderson WH, Riley JH. A genome-wide search for linkage to asthma phenotypes in the Genetics of Asthma International Network families: Evidence for a major susceptibility locus on chromosome 2p. *European J Human Genetics* 2006; (in press)

42. Blumenthal MN, Langefeld CD, **Barnes KC**, Ober C, Meyers DA, King RA, Beaty TH, Beck SR, Bleecker ER, Rich SS for the Collaborative Study on the Genetics of Asthma (CSGA). A genome-wide search for quantitative trait loci contributing to variation in pollen reactivity. *J Allergy Clin Immunol.* 2006; 117: 79-85.

43. Lima JJ, Zhang S, Grant A, Shao L, Tantisira KG, Allayee H, Wang J, Sylvester J, Holbrook J, Wise R, Weiss ST, **Barnes K**. Influence of leukotriene pathway polymorphisms on

response to montelukast in asthma. *Am J Respir Crit Care Med.* 2006; 173: 379-85.

Review Articles:

1. Brenner RJ, **Barnes KC**, Helm RM. 1990 Arthropod allergens in the urban environment. *Proceedings of the National Conference on Urban Entomology*, February, Orlando, Florida p. 25-28
2. Cuisik J, **Barnes KC.**, ed. 1991 Topics in Caribbean Anthropology. *Special Publication #7. Florida J Anthropology.* Vol. 16.
3. Brenner RJ, **Barnes KC**, Helm R, Williams LW. Modernized society and allergies to arthropods. *American Entomologist.* 1991; 37(3): 143-155.
4. **Barnes KC**, Marsh DG. The genetics and complexity of allergy and asthma. *Immunology Today.* 1998; 19(7): 325-332.
4. **5. Barnes KC.** Atopy and Asthma Genes — Where Do We Stand? *Allergy.* 2000; 55: 803-817.
6. **Barnes KC.** Horizons of asthma genetics. *Intl. Rev. of Asthma.* 2004; 6(4): 70-89.
7. **Barnes KC**, Grant AV, Gao P. A review of the genetic epidemiology of resistance to parasitic disease and atopic asthma: common variants for common phenotypes? *Current Opinion in Allergy and Clinical Immunology.* 2005; 5: 379-385.
8. **Barnes KC.** Genetic determinants and ethnic disparities in sepsis-associated acute lung injury. *Proc. Am. Thoracic Soc.* 2005; 2: 195-201.
9. **Barnes KC.** Parasite evolution and the immune system. *Allergy Clin. Immunol. In.: J World Allergy Org.* 2005; 17: 229-236.
10. **Barnes KC.** Genetic epidemiology of health disparities in allergy and clinical immunology. *J Allergy Clin Immunol.* 2006; 117: 243-54.

Editorials:

1. **Barnes KC.** Genetics and epidemiology. *Current Opinion in Allergy and Clinical Immunology.* 2001; 1: 383-385.
2. **Barnes KC.** Genetics and epidemiology. *Current Opinion in Allergy and Clinical Immunology.* 2002; 2(5): 375-378.

Book Chapters and Monographs:

1. Lieberman L, **Barnes KC.** 1989 Anthropological Perspectives on Food Sensitivities and Food Allergies. In *Food Allergies and Sensitivities: A guide for Dietitians.* J. Perkin, Ed. Aspen Pub. Inc. p. 207-233. Gaithersburg, MD.
2. **Barnes KC.** Genetic studies of cystic fibrosis and atopic asthma: current approaches and future aspects. *Ped Allergy & Immunol.* 1996; 7(suppl 9): 74-81.
3. **Barnes KC.** Genetics and bronchial asthma: what is new? *Pediatric Pulmonol Suppl.* 1997; 16: 801.
4. Armelagos GJ, **Barnes KC**, Lin J. 1998 Disease in Human Evolution: The Reemergence of Infectious Disease in the Third Epidemiological Transition. in *Anthropology Explored. The Best of Smithsonian AnthroNotes.* R.O. Selig & M.R. London, Ed. Smithsonian Institution Press. p. 96-108. Washington, D.C.

5. **Barnes KC**, Liu MC. 1999 The Role of genetics and indoor allergen exposure in atopic asthma. In Platts-Mills TAE, et al. Causes and Mechanisms of an Epidemic Inflammatory Disease. Lewis Publishers. 256 pp. Center for Indoor Air Research. pp. 197-224.
6. **Barnes KC**, Armelagos GJ, Morreale SC. 1999. Darwinian medicine and the emergence of allergy. In Trevathan, W., McKenna, J.J., Smith, E.O. Evolutionary Medicine. Oxford University Press. p. 209-244.
7. Nickel RE, Saitta FP, Freidhoff LR, Yu XY, Ehrlich E, **Barnes KC**, Beaty TH, Huang SK. Positional candidate gene approach and functional genomics strategy in atopy gene discovery. *Int. Arch. Allergy Immunol.* 1999; 118: 282-284.
8. **Barnes KC**. Gene-environment and gene-gene interaction studies in the molecular genetic analysis of asthma and atopy. *Clinical and Experimental Allergy.* 1999; 29 (Suppl 4): 47-51.
9. Nickel R, Beyer K, Huang SK, **Barnes KC**, Wahn U. Genetic markers of atopy in infancy: results from the German Multicenter Allergy Study. *Clinical and Experimental Allergy.* 1999; 29 (Suppl): 235.
10. **Barnes KC**. Evidence for common genetic elements in allergic disease. *Journal of Allergy and Clinical Immunology.* 2000; 106: S192200.
11. Armelagos GJ, **Barnes KC**, Lin J. 2004. Disease in Human Evolution: The Resistance of Many Infections to Antibiotics Today is Seen as the Latest Major Health Crisis in Human History. in *Anthropology Explored. Revised and Expanded.* R.O. Selig, M.R. London & P.A. Kaupp, Ed. Smithsonian Institution Press, p. 115-125. Washington, D.C.

Other Media:

1. Audiocast: "Asthma, Genes and the Environment"
Original airing date: Thu, January 11, 2001 at 2 pm EST
(<http://www.dna.com/eventTranscript/eventTranscript.jsp?link=audiocastasthmagenesandtheenvironment.htm>)
Produced by: DNA Sciences and the Gene Trust
2. Radio Broadcast: "Genes Work in Concert to Produce Asthma"
Official radio air date: Tuesday, February 20, 2001
Produced by: Tom Haederle, Director, Health Newsfeed, WJHU
3. Radio Broadcast: "Barbados Genes"
Official radio air date: March 14, 2001 (
Produced by: Science Update, American Association for the Advancement of Science

Extramural sponsorship:

Grants:

Active:

"Genetic Studies of Immune Responsiveness to Cockroach"

December 1, 2002–November 30, 2007

Agency: NIH

Type: R01 (A150024-02A2)

Total Direct Cost: \$1,250,000
Role: Principal Investigator
Effort: 15%

“Baltimore Asthma Severity Study (BASS)”
September 1, 2002 – August 31, 2007
Agency: NHLBI
Type: R01 HL67905
Total Direct Cost: \$2,145,249
Current Year Direct Cost: \$419,704
Role: Co-Investigator
Effort: 10%
Principal Investigator: Jean Ford, M.D.

“Howard/Hopkins Center for Reducing Asthma Disparities”
September 30, 2002 – September 29, 2007
Agency: NIH
Type: U01 HL72455
Total Direct Cost: \$2,094,641
Current Year Direct Cost: \$412,382
Role: Project Leader
Effort: 12%
Principal Investigator: Cynthia Rand, Ph.D.

“Molecular Approaches to Ventilator Associated Lung Injury”
September 30, 2003 – June 30, 2008
Agency: NIH
Type: P50 HL073994-01
Current Year Direct Cost: \$2,500,000
Role: Project Leader (“Genetic Modifiers in VALI”) Project Leader (“Genomics &
Effort: 20% Genotyping Core”)
Effort: 5%
Principal Investigator: Roy G. Brower, M.D.

“Center for Childhood Asthma in the Urban Environment”
November 1, 2003 – October 31, 2008
Agency: NIH
Type: P01 R-826724
Total Direct Cost: \$5,332,775
Current Year Direct Cost: \$1,066,544
Role: Co-Investigator
Effort: 10%
Principal Investigator: Peyton Eggleston, M.D.

“Atopic Dermatitis and Vaccinia Network-Clinical Studies Consortium

July 1, 2004 – March 31, 2009

Agency: NIH

Type: HHSN266200400029C

Total Direct Cost: \$2,478,404

Current Year Direct Cost: \$443,381

Role: Co-Investigator

Effort: 15%

Principal Investigator: Donald YM Leung, M.D., Ph.D.

Co-Investigator: Lisa Beck, MD

“Airway Disease and Cockroach Exposure in Public Housing”

July 1, 2004 – June 30, 2009

Agency: NIH (Renewal)

Type: R18 AI44840

Total Direct Cost: \$2,350,890

Current Year Direct Cost: \$453,027

Role: Co-Investigator

Effort: 5%

Principal Investigator: Alkis Togias, M.D.

“Genetics of Asthma Severity and Lung Function Decline”

September 30, 2004 – August 31, 2009

Agency: NIH

Type: K23HL076322-01

Total Direct Cost: \$745,000

Current Year Direct Cost: \$149,000

Role: Co-Investigator

Effort: 3%

Principal Investigator: Nadia Hansel, M.D., MPH

“Applied Genomics in Cardiopulmonary Disease”

August 1, 2005 – July 31, 2006

Agency: National Heart, Lung, and Blood Institute

Type: 5 U01 HL066583-04 (Revised)

Total Direct: \$480,701

Role: Principal Investigator

Pending:

“Rheumatic Disease Research Core Center”

March 1, 2006 – February 28, 2011

Agency: NIAMS
Type: RFA-AR-05-004
Total Direct Cost: \$2,000,000
Current Year Direct Cost: \$400,000
Role: Core Leader
Effort: 10%
Principal Investigator: Antony Rosen, M.D. and John H. Stone, M.D.

“Molecular Determinants of Scleroderma-Associated Pulmonary Arterial Hypertension”
December 1, 2006 – November 30, 2011

Agency: NIH
Type: RFA-HL-05-007
Total Direct Cost: \$2,500,000
Current Year Direct Cost:
Role: Core Leader (Core D Genomics/Genotyping) Project Leader (“Scleroderma-Associated PAH”)
Effort: 10% Effort: 10%

Principal Investigator: Paul M. Hassoun, M.D.

“Candidate Genes of Innate Immunity in Asthmatics of African Descent”
December 1, 2006 – November 30, 2010

Agency: NIH
Type: R01
Total Direct Cost: \$1,934,559
Current Year Direct Cost: \$472,033
Role: Principal Investigator

Previous Grants:

“Asthma Positional Candidate Genes in Mice and Humans”
October 29, 2000 – September 30, 2005

Agency: NHLBI
Type: 5 R01 (HL67736-03)
Total Direct Cost: \$1,750,000
Current Year Direct Cost: \$350,000
Role: Co-Investigator
Effort: 10%
Principal Investigator: Marsha Wills-Karp, Ph.D.

“Applied Genomics in Cardiopulmonary Disease”
September 29, 2000 – July 31, 2004

Agency: National Heart, Lung, and Blood Institute
Type: U01 (HL 99-024)
Total Direct Cost: \$14,000,000

Current Year Direct Cost: \$3,500,000

Role: Co-Investigator (Steering Committee Member, Genotyping Committee Co-Chair, Candidate Gene Committee Chair)

Effort: 10%

Principal Investigator: Joe G.N. Garcia, M.D.

“Airway Disease and Cockroach Exposure in Public Housing”

April 1, 1999 – June 30, 2004

Agency: NIAID

Type: R18 (AI448-40-01, Years 1-present)

Total Direct Cost: \$1,536,335

Current Year Direct Cost: \$307,267

Role: Co-Investigator

Effort: 15%

Principal Investigator: Alkis Togias, M.D.

“The Leukotriene Modifier or Corticosteroids Trial (The LOCS Trial)”

November 1, 2002 – October 31, 2003

Agency: NIH

Total Direct Cost: \$358,500

Current Year Direct Cost: 358,500

Role: Co-Investigator

Effort: 2%

Principal Investigator: John Lima, M.D.

“Genetic Susceptibility of Atopy and the Indoor Environment”

April 1, 1999 – March 31, 2002

Agency: Center for Indoor Air Research

Total Direct Cost: \$517,706

Current Year Direct Cost: \$175,355

Role: Principal Investigator

Effort: 10%

“Molecular Genetic Analysis of Asthma”

September 1, 1997 – August 31, 2002

Agency: National Heart, Lung & Blood Institute

Type: 5 U01 (HL49612-08, Years 1-present)

Total Direct Cost: \$2,090,326

Current Year Direct Cost: \$397,507

Role: Co-Investigator

Effort: 30%

Principal Investigator: Terri H. Beaty, Ph.D.

“Genetic Studies of Asthma & Atopy on Tangier Island”

September 1, 1997 – December 31, 1999

Agency: Asthma & Allergy Foundation of America

Total Direct Cost: \$40,000

Role: Principal Investigator

Effort: 20%

“Genetic Studies of Human Immune Response”

April 1, 1992 – November 30, 1998

Agency: National Institute of Allergy and Infectious Disease

Type: 5 R01 (AI20059-14, Years 2-6)

Role: Co-Investigator

Principal Investigator: David G. Marsh, Ph.D.

"Epidemiology & Genetics of Atopic Asthma"

March 1, 1994 – February 28, 1997

Agency: Center for Indoor Air Research

Role: Co-Investigator

Principal Investigator: M.C. Liu, M.D.

Contracts:

“Molecular Genetics of Asthma in Barbados”

July 1, 1999 – December 31, 2001

Agency: Glaxo-Wellcome

Type: Research Grant

Total Direct Cost: \$589,171

Current Year Direct Cost: \$386,742

Role: Principal Investigator

Effort: 9%

“Genetic Regulation of MYPT1 in Allergic Disease”

March 1, 2000 – December 31, 2000

Agency: Kirin Brewery

Type: Research Grant

Total Direct Cost: \$19,497

Role: Principal Investigator

Effort: 1%

“Genetics of Asthma International Network (GAIN): Exacerbation follow-up study

August 1, 2004 – Completion

Agency: GlaxoSmithKline Research & Development Ltd

Type: Research Grant

Total Direct Cost: \$31,000

Role: Principal Investigator

EDUCATIONAL ACTIVITIES

Teaching:

CME Instruction:

- 1997 Breakfast Seminar, 52nd Annual Meeting, AAAAI, San Francisco, CA
Invited Speaker, “Update on Genetics of Allergic Disease”
- 1998 Lunch Seminar, 53rd Annual Meeting, AAAAI, Washington, D.C.
Invited Speaker, “Update on Genetics of Allergic Disease”
- 1999 Lunch Seminar, 54th Annual Meeting, AAAAI, Orlando, FL
Invited Speaker, “Update on Genetics of Allergic Disease”
- 2000 Lunch Seminar, 55th Annual Meeting, AAAAI, San Diego, CA
Invited Speaker, “Gene-environment Interaction Studies in the Molecular
Genetic Analysis of Asthma & Atopy”
- 2001 Breakfast Seminar, 56th Annual Meeting, AAAAI, New Orleans, LA
Invited Speaker, “The Search for Allergy & Asthma Genes”
- 2002 Breakfast Seminar, 57th Annual Meeting, AAAAI, New York, NY
Invited Speaker, “The Search for Allergy & Asthma Genes”
- 2002 Lunch Seminar, 57th Annual Meeting, AAAAI, New York, NY
Invited Speaker, “Characterizing the Asthmatic Phenotype & Genotype”
- 2002 Research Conference, Center for Childhood Asthma in the Urban
Environment
Johns Hopkins Bloomberg School of Public Health
Invited Speaker, “Endotoxin Response in Asthma”
- 2003 Lunch Seminar, 58th Annual Meeting, AAAAI, Denver, CO
Invited Speaker, “Characterizing the Asthmatic Phenotype & Genotype”
- 2003 Postgraduate Course, ‘Genetic Association Studies in Complex Lung Disease’,
Annual Meeting, American Thoracic Society, Seattle, WA
Invited Speaker, “Ethnic Diversity and Population Stratification in Association
Studies”

- 2003 NIH/NHLBI Sponsored Functional Genomics Workshop, Annual Meeting,
American Thoracic Society, Seattle, WA
Invited Speaker, “What is a SNP? Association Study Designs and Current Tools
for Analysis”
- 2004 Research Conference, Center for Childhood Asthma in the Urban
Environment
Johns Hopkins Bloomberg School of Public Health
Invited Speaker, “The Immunogenetics of Innate Immunity in Acute &
Chronic Lung Disease”
- 2004 Immunological Pathophysiology Clinical Presentation, Johns Hopkins University
Lecturer, “Genetics of Hypersensitivity MSII”
- 2004 Fellows-in-Training Symposium, ‘Genetics of Allergic Disease’, 59th Annual Meeting,
AAAAI, San Francisco, CA
Invited Speaker, “Introductory to Genetics of Allergic Disease”
- 2004 Breakfast Seminar, 59th Annual Meeting, AAAAI, San Francisco, CA
Invited Speaker, “Interaction Between the Environment & Genetics in Allergic
Disease”
- 2004 Lunch Seminar, 59th Annual Meeting, AAAAI, San Francisco, CA
Invited Speaker, “From Genome to Proteome/Mechanisms of Allergy: Lessons
from Microarrays & Proteomics”
- 2005 Breakfast Seminar, 60th Annual Meeting, AAAAI, San Antonio, TX
Invited Speaker, “What is the Role of Genetic Research in Addressing Health
Disparities?”
- 2005 Breakfast Seminar, 60th Annual Meeting, AAAAI, San Antonio, TX
Invited Speaker, “Interaction Between the Environment & Genetics in Allergic
Disease”
- 2005 Postgraduate Course, ‘Health Disparities – Understanding and Addressing Them
Through Research and Practice’,
Annual Meeting, American Thoracic Society, San Diego, CA
Invited Speaker, “The Genetic Epidemiology of Health Disparities”

Mentoring:

Post-doctoral/Visiting Scientist:

Lili Barouch, M.D.

Position: Johns Hopkins Department of Medicine Mentoring Program Mentee

Dates: 1999 – 2001

Current Position & Institution: Post-Doctoral Fellow, Div. Of Cardiology, Johns Hopkins University

Luis Caraballo, M.D., Ph.D.

Position: Visiting Scientist

Dates: 2000 – 2001

Current Position & Institution: Professor of Medicine, University of Cartagena, Colombia

Silvia Jimenez

Position: Visiting Scientist

Dates: 2000 – 2001

Current Position & Institution: Scientist, University of Cartagena, Colombia

Katherine Held, Ph.D.

Position: Post-doctoral Fellow

Dates: 2000 – 2003

Current Position & Institution: Research Associate, Johns Hopkins University

Daniela Baltadjieva, M.D., Ph.D.

Position: Visiting Scientist

Dates: 2003 – 2004

Current Position & Institution: Associate Professor, Central Lab for Clinical Immunology, “Aleksandrovska” University Hospital, Sofia, Bulgaria

Melba Muñoz, M.D.

Position: Post-doctoral Fellow

Dates: 2003 – current

Recipient of American Academy of Allergy, Asthma & Immunology Travel Grant 2004, 2005

April Zambelli-Weiner, Ph.D.

Position: Post-doctoral Fellow

Dates: 2003 – 2004

Nadia Hansel, MD, MPH

Current Position: Instructor of Medicine, Division of Pulmonary & Critical Care Medicine

Dates: 2004 – present

Recipient of K23 award entitled “Genetics of Asthma Severity & Lung Function Decline”

Candelaria Vergara, MD

Position: Post-doctoral Fellow
Dates: 2004 – 2005

Pre-doctoral:

Mark Collins, B.S.
Position: Undergraduate student
Dates: 1999
Current Position & Institution: Pre-Doctoral Student, University of Glasgow

Jan Smith, Medical Sciences (Cambridge University)
Position: Undergraduate student
Dates: 2000
Current Position & Institution: Medicine Student, Cambridge University

Rasika Mathias, Sc.D.
Position: Doctoral Student
Dates: 2000 – 2002
Current Position & Institution: Research Fellow, NHGRI/NIH

Melba Muñoz, B.S.
Position: Visiting Student
Dates: 2002 – 2002
Current Position & Institution: Postdoctoral Fellow, The Johns Hopkins University

Meher Burki, B.S.
Position: Visiting Student
Dates: 2002, 2003
Current Position & Institution: Medical Student, Aga Kan University, Karachi, Pakistan

Omeed Zardkoohi, B.S.
Position: Medical Student
Dates: 2002 – 2002
Current Position & Institution: Medical Student, The Johns Hopkins University

Audrey V. Grant, M.S.
Position: Doctoral Student
Dates: 2003 - 2004
Current Position & Institution: Statistician/Data Analyst, The Johns Hopkins University
Recipient of GlaxoSmithKline grant entitled “Genetic control of susceptibility to Schistosomiasis & its potential modulation of asthma severity in Bahia, Brazil”, 2004, 2005

Peter Chi
Position: Doctoral Student

Dates: 2004 – present

Undergraduate:

Heather Busick, B.S. (Smith College, Massachusetts)

Position: Undergraduate student

Dates: 1995, 1996

Aleruchi Mpi

Position: Undergraduate student

Dates: 2000

Current Position & Institution: Pre-Med Student, Johns Hopkins University

John Oldewurtel

Position: Undergraduate student

Dates: 2002

Caitlin Dorer

Position: Undergraduate student

Dates: 2003

Current Position & Institution: Nursing student, Johns Hopkins School of Nursing

Peter Ackerboom

Position: Undergraduate student

Dates: 2003

Current Position & Institution: Biology student, Mount Saint Mary's College

Other:

George Stanton

Position: High school student in NIH-sponsored minority program

Dates: 1994 – 1995

Peter Hussey, B.S. (Johns Hopkins University)

Position: Undergraduate Work Study student

Dates: 1995

Larry Levan (Yale University)

Position: High School Student

Dates: 1999

Current Position & Institution: Pre-Med Student, Yale University

Eric Chung

Position: High School Student

Dates: 2000

Current Position & Institution: Pre-Med Student, University of British Columbia

Brandon Levan

Position: High School Student

Dates: 2001

Andrew Patrick

Position: High School Student (Internship)

Dates: 2004 – 2005

Itael Evgey

Position: Undergraduate MSIP Student

Dates: 2005 -

Andrew Zayac

Position: High School Student (Internship)

Dates: 2005 – 2006

Kanika Staten

Position: High School Student (Internship)

Dates: 2005 – 2006

Thesis Committees

Rasika A. Mathias, MPH, Sc.D. (Genetic Epidemiology)

“A Genealogical Analysis of the Tangier Island Population”

Department of Epidemiology, Johns Hopkins School of Hygiene and Public Health

Role: Doctoral Thesis Committee Member

Teri Manolio, M.D., MHS, Ph.D. (Genetic Epidemiology)

“Genetic and Environmental Factors Related to *B. tropicalis* Sensitization in Asthma”

Department of Epidemiology, Johns Hopkins School of Hygiene and Public Health

Role: Doctoral Thesis Committee Member

April Zambelli-Weiner, Ph.D. (Genetic Epidemiology)

“Genetic and Environmental Factors Related to Endotoxin and Asthma”

Department of Epidemiology, Johns Hopkins School of Hygiene and Public Health

Role: Doctoral Thesis Committee Member

Grace Posa Ibay, MS (Genetic Epidemiology)

“Interaction Between Loci for Asthma and Mite-Specific IgE Responsiveness”

Department of Epidemiology, Johns Hopkins School of Hygiene and Public Health

Role: Masters Thesis Committee Member

Nilsa I. Loyo-Berrios, PhD (Environmental Health Sciences)
“Asthma Attacks and Air Pollution in the Cataño Municipality, Puerto Rico”
Department of Epidemiology, Johns Hopkins School of Hygiene and Public Health
Role: Doctoral Thesis Committee Member

Elizabeth Matsui, MD, MHS (Epidemiology)
“Mouse Allergen Exposure and Immunologic Responses: IgE-Mediated Mouse Sensitization, Mouse-Specific IgG and IgG4”
Department of Epidemiology, Johns Hopkins School of Hygiene and Public Health
Role: Masters Thesis Reader

P.K. Judge, MD
“Comparison of Genetic Factors Influencing IgE, Asthma and Parasites Between a Caribbean and West Australian Population”
School of Paediatrics and Child Health, University of Western Australia
Role: Doctoral Thesis Reader

Erika Avila Tang, MHS (Epidemiology)
“Case-Crossover Studies of Particulate Air Pollution and Risk of Death from Asthma and from Chronic Obstructive Pulmonary Disease in the United States”
Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
Role: Doctoral Thesis Committee Chair

Audrey V. Grant, MS (Epidemiology)
“Genetic Susceptibility to Schistosomiasis and Atopy in an Isolated Brazilian Population”
Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
Role: Doctoral Thesis Committee Member

Peter Chi (Epidemiology)
“Comparison of Haplotype-Tagging, Sliding Window, & Single SNP Methods Using Asthma & Total Serum IgE Markers on Chromosome 12q from an African Caribbean Population”
Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
Role: Doctoral Thesis Committee Member

Dr. Raewyn Cheryll Mutch
“Familial Associations of Asthma and Atopy”
School of Paediatrics and Child Health, University of Western Australia
Role: Doctoral Thesis Reader

Training Grant Participation

T35 NIH Summer Minority Student Training Grant

2001

Role: Mentor, Bernadette Gray

Project: "The CD14(-159) Polymorphism is not Associated with Circulating sCD14 nor Total Serum IgE in an Asthmatic Population of African Descent"

T35 NIH Summer Minority Student Training Grant

2001

Role: Mentor, Paula Diggs

Project: "Cockroach Sensitization and Cross-Reactivity to Shellfish on Tangier Island"

T35 NIH Summer Minority Student Training Grant

2002

Role: Mentor, Candra Rowell

Project: "sCD14 and Asthma in an Afro-Caribbean Population"

T35 NIH Summer Minority Student Training Grant

2003

Role: Mentor, Monica Lorenzo

Project: "Polymorphisms in the Gene Encoding MLCK and Asthma in a Population of African Descent"

T-35 NIH Summer Minority Student-Training Grant

2005

Role: Mentor, Aaron Ilano

Project: "Single Nucleotide Polymorphisms in the Gene Encoding Myosin Light Chain Kinase (MLCK) are Associated with Increased Risk for Asthma"

Editorial Activities:

Editorial Board Appointments

Current Opinion in Allergy & Clinical Immunology (Genetics & Epidemiology Section)

Journal Ad Hoc Reviewer

Genomics

Human Genetics

American Journal of Respiratory & Critical Care Medicine

American Journal of Respiratory Cell & Molecular Biology

Journal of Allergy and Clinical Immunology

Clinical and Experimental Allergy

Allergy

European Journal of Human Genetics

Genes & Immunity
American Journal of Human Genetics

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

The Johns Hopkins University Department of Medicine Task Force on Women's Academic Careers, 1996-2003

Department of Medicine's Appointments and Promotions Committee, 2002-present

Division of Allergy and Clinical Immunology Executive Committee, 2003-present

Division of Pulmonary and Critical Care Medicine Search Committee, 2004-2005

Professional Societies

Memberships

Phi Kappa Phi Honorary Society

American Association for the Advancement of Science

American Academy of Allergy, Asthma and Immunology (AAAAI)

American Society for Human Genetics

American Anthropological Association

Society for Applied Anthropology

American Thoracic Society

Committees

Committee on Women's Involvement in the American Academy of Allergy, Asthma & Immunology

1996-2002 Member

American Academy of Allergy, Asthma & Immunology Undergraduate and Graduate Medical Education Committee

1997-2000 Member

American Academy of Allergy, Asthma & Immunology Genetics, Molecular Biology & Epidemiology Committee

1999-2001 Vice Chair

2001-2005 Chair

2005-2007 Member

BCI Abstract Review Subcommittee, American Academy of Allergy, Asthma & Immunology

2001–2003 Ad Hoc Representative
2005–2007 Vice Representative

American Academy of Allergy, Asthma & Immunology Symposium Committee
2002–present Member

American Thoracic Society, Assembly on Allergy Immunology & Inflammation
2004 –present Member

Atopic Dermatitis Vaccinia Network Sample & Data Access Committee (NIAID)
2004 – present Chair

BCI Interest Section, American Academy of Allergy, Asthma & Immunology
2005–2007 Secretary
2005–2007 Symposia Representative

Funding and Resource Strategies Committee, Minority Health & Health Disparities
(MHHD)
2005-present Member

Conference Organizer/Session Chair

Seventh Annual Symposium, “The Genetics of Asthma and Atopic Disease”,
Johns Hopkins Asthma & Allergy Center at the Bayview Campus, Baltimore, MD
1996 Co-organizer

Symposium, “Genetic Studies of Asthma: Ethical, Legal and Social Challenges”,
American Academy of Allergy, Asthma, & Immunology (Washington, D.C.)
1998 Organizer/Moderator

Symposium, “The David G. Marsh Lectureship on Genetics of Asthma and Atopy”,
American Academy of Allergy, Asthma, & Immunology (Orlando, Florida)
1999 Co-organizer/Moderator

Advanced Molecular Biology Course, AAAAI (New Orleans, LA)
2001 Organizer/Moderator

Symposium, “The David G. Marsh Lectureship on New Directions in the Genetics Studies
of Allergic Disease”, American Academy of Allergy, Asthma, & Immunology (New
Orleans, LA)
2001 Co-organizer/Moderator

Symposium, “Johns Hopkins-Barbados Genetic Epidemiology of Obstructive Lung

Disease Research Conference”, (Barbados, WI)
2004 Organizer

Symposium, “Johns Hopkins University-Barbados Public Symposium on Asthma”,
(Barbados, WI)
2005 Organizer

Advisory Committees/Review Groups

NHLBI/NIAID Lung Cellular, Molecular & Immunobiology Study Section
2005 Ad Hoc Member

NIH Infectious Disease, Reproductive Health, Asthma, Pulmonary Epidemiology
(IRAP): Quorum
2005 Ad Hoc Member

NIH Infectious Disease, Reproductive Health, Asthma, Pulmonary
Epidemiology (IRAP)
2006 Ad Hoc Member

Consultantships

Glaxo-Wellcome Pharmaceuticals
1999-present Consultant in program on asthma genetics

Merck Pharmaceuticals
2001 Participant in 2001 Regional Respiratory Consultants Meeting

RECOGNITION

Awards, Honors

1982 VA Fellowship
Women's Business Association of Danville

1988 Vining Davis Field Research Award to conduct post-graduate fieldwork in
the Dominican Republic

1988 S.C. Johnson Research Travel Award to conduct post-graduate fieldwork in
the Dominican Republic

1991 Dow-Elanco Research Travel Award to conduct post-graduate fieldwork in
Barbados

- 1992 University of Florida Graduate Student Council Travel Award
37th Annual Meeting of the Commonwealth Caribbean Medical Research Council; Curaçao, Netherlands Antilles
- 1994 American Academy of Allergy and Immunology Travel Award
50th Annual Meeting of the American Academy of Allergy & Immunology; Anaheim, California
- 1994 Boehringer Research Travel Award
39th Annual Meeting of the Commonwealth Caribbean Medical Research Council; Kingston, Jamaica
- 1994 Glaxo Research Travel Award
39th Annual Meeting of the Commonwealth Caribbean Medical Research Council Kingston, Jamaica
- 1995 American Academy of Allergy and Immunology Travel Award
51st Annual Meeting of the American Academy of Allergy & Immunology; New York
- 1996 Maryland Chapter Research Grant (\$10,616.00)
Asthma and Allergy Foundation of America
- 1998, 1999 New Investigator Award Grant (\$20,000.00)
Asthma and Allergy Foundation of America
- 2003 Assembly on Allergy Immunology & Inflammation Travel Award
100th Annual Meeting of the American Thoracic Society

Invited Talks, Panels

- 1995 “Research Update – What’s New? Genetics” (Workshop)
Seventh Annual Asthma, Allergy & Immunology Update for Nurses, Johns Hopkins University, Baltimore, Maryland
Johns Hopkins Medical Institutions Office of Continuing Medical Education
- 1996 The Philip Norman Lectureship “Genetics of IgE Responsiveness and Asthma” (Plenary Session)
New Orleans, LA
American Academy of Allergy, Asthma and Immunology

- 1996 “Genetic Markers of Atopic Diseases: Future Aspects and Therapeutic Interventions”
Odense, Denmark
Joint Meeting of the European Society of Pediatric Allergy & Clinical Immunology and European Respiratory Society Pediatric Assembly
- 1996 “Genetics and Bronchial Asthma: What is New?”, 1996
Second International Congress on Pediatric Pulmonology, Nice, France
European Society of Pediatric Pulmonology
- 1996 “Linkage Analysis of Asthma & Atopic Disease in Diverse Populations”
The Seventh Annual Symposium, Johns Hopkins Asthma & Allergy Center at the Bayview Campus, Baltimore, Maryland
The Asthma & Allergy Foundation of America
- 1997 “Genetics of Asthma (State-of-the-Art)”
12th Annual Update of Frontiers in Research and Clinical Management of Asthma & Allergy, Baltimore, Maryland
The Asthma & Allergy Foundation of America
- 1997 “Linkage of Clinical and IgE Phenotypes Associated with Asthma and Atopy to Loci on Chromosome 12q”
42nd Annual Meeting of the Japan Society of Human Genetics, Kobe, Japan
The Japan Society of Human Genetics
- 1997 “Genetics of the Immune Response to Atopic Allergens”
First International Meeting of the Allergology Department of Milan, Italy
Allergology Department of Milan, Aula Magna of the University of Milan
- 1997 “The Genetics of Asthma”
The First Department of Medicine, School of Medicine, Hokkaido University Sapporo, Japan
Astra Japan
- 1997-2001 “Update on Genetics of Allergic Disease”
Annual Meeting of the American Academy of Allergy, Asthma and Immunology (Breakfast Seminar)
The American Academy of Allergy, Asthma and Immunology
- 1998 “Molecular Linkage of Candidate Genes”

- 16th Annual Aspen Allergy Conference, Given Biomedical Institute,
Aspen, Colorado
Aspen Allergy Conference
- 1998 “Risk Factors in Asthma”
XV Annual Meeting of the Colombian Society of Internal Medicine,
Cartagena, Colombia
Colombian Society of Internal Medicine
- 1999 “Gene-environment and gene-gene interactions in asthma”
International Symposium on the Development of Atopy & Asthma in
Childhood, Fulda, Germany
The UCB Institute of Allergy
- 2000 “Evidence for Common Genetic Elements in Allergic Disease”
‘Systemic Aspects of Allergic Inflammatory Disease’ Meeting, Orlando,
Florida
Schering-Plough Pharmaceuticals
- 2000 “Applying Genetics to Clinical Practice”
‘Successful Management of Asthma in Children’ (CME Activity) Meeting,
Tarrytown, New York
Albert Einstein College of Medicine & Montefiore Medical Center
- 2001 “Genetic analysis of Asthma: The Tangier Island Experience”
The Fortieth Annual Swineford Allergy Conference (CME Activity)
Charlottesville, VA
Office of Continuing Medical Education, University of Virginia School of
Medicine
- 2001 “Genetics of Asthma”
Caribbean Allergy & Respiratory Association, 4th Annual Scientific
Meeting, Kingston, Jamaica
GSK, AstraZeneca, Boehringer Ingelheim, Pfizer, Novartis Caribe, Merck
Sharp & Dohme
- 2001 “Dissecting gene-gene & gene-environment interactions of allergic disease
in diverse populations”
XXth Congress of the European Academy of Allergology & Clinical
Immunology, Berlin, Germany
European Academy of Allergology & Clinical Immunology

- 2002 “DNA Microarrays and Gene Discovery in Asthma”
5th International Congress on Pediatric Pulmonology, Nice, France
International Congress on Pediatric Pulmonology
- 2002 “Gene Expression Array Analysis in Asthma”
Annual Meeting of the American Thoracic Society (ATS) & American
Lung Association (ALA), Atlanta, GA
ATS/ALA
- 2002 “Genetic Protection Against Atopy”
XXVII Meeting of the Brazilian Society of Immunology / V International
Symposium on Allergy and Clinical Immunology, Salvador, Brazil
- 2002 “Inhaled Allergen: Genetic Interaction and Environment”
XXVII Meeting of the Brazilian Society of Immunology / V International
Symposium on Allergy and Clinical Immunology, Salvador, Brazil
- 2002 “Genetics of Asthma”
1st Paediatric Respiratory & Allergy Meeting, SP-EAACI & ERS-PA Joint
Meeting
Valencia, Spain
- 2003 “Genetic Background of Allergic Disorders”
International Allergy Symposium, Sanjyo Kaikan, Tokyo, Japan
- 2003 “Genetic Susceptibility to Allergy & Asthma in People of African Origin”
Symposium on ‘Evolution of Immune Responses in Modern Man-Relations
to Current & Future Patterns of Atopy & Asthma
Annual Meeting, American Thoracic Society, Seattle WA
- 2003 “The T Cell Proliferative Response to Cockroach Tropomyosin (Per a 7)
Predicts a Proliferative Response to Helminthic Tropomyosin”
9th International Symposium on Schistosomiasis, Salvador, Brazil
- 2004 “Genetic Epidemiology of Acute & Chronic Lung Disease”
Pulmonary Grand Rounds Conference, Montefiore Hospital, University of
Pittsburgh
Pittsburgh, PA
- 2004 “An Update on Asthma Genetics”
Pediatric Research Conference, Behavioral Sciences Research Institute,

University of Puerto Rico, San Juan, P.R.

- 2004 “The Immunogenetics of Innate Immunity: Implications for Asthma & Allergic Disease”
German National Genome Research Network “Environmental Diseases”
Annual Meeting “Genetic & Environmental Determinants of Allergy & Inflammation”, Berlin, Germany
- 2004 “Allergic Asthma in Island Populations: Once & Future Trends”
Pediatric Grand Rounds, Department of Pediatrics, University of Hawaii
Honolulu, Hawaii
- 2004 “Genetic Determinants & Ethnic Disparities in Sepsis-associated Acute Lung Injury”
3rd Annual Pittsburgh International Lung Conference, University of Pittsburgh
Laurel Highlands, PA
- 2004 “The Immunogenetics of Innate Immunity: Implications for Asthma & Allergic Disease”
Environmental Health Seminar Series, University of Cincinnati Cincinnati, Ohio
- 2004 “The Immunogenetics of Innate Immunity in Acute and Chronic Lung Disease”
Visiting Scientist Lecture
Bulgarian Society of Immunology
Sofia, Bulgaria
- 2004 “The Genetic Epidemiology of Health Disparities”
9th RCMI International Symposium on Health Disparities
Baltimore, MD
- 2005 “Health Disparities in Acute and Chronic Lung Disease”
Department of Microbiology Spring 2005 Research Seminar Series,
Howard University
Washington, DC
- 2005 “The Immunogenetics of Innate Immunity in Acute and Chronic Lung Disease: AOA, A Candidate Gene”
UT Southwestern Medical Center at Dallas, Special Seminar
Dallas, TX

2005 XXX Meeting of the Brazilian Society of Immunology / VIII International
Symposium on Allergy and Clinical Immunology,
Salvador, Brazil

OTHER PROFESSIONAL ACCOMPLISHMENTS

International Consortiums

Consortium on Asthma Genetics (COAG), Newton Morton, PI. Supported by a three-year grant from the National Asthma Campaign, U.K. & the Medical Research Council, U.K. Dr. Barnes was Chair of Year 2 of the Consortium, focused on linkage to chromosome 12 (COAG12).
1999-2002

GlaxoSmithKline sponsored Genetics of Asthma International Network (GAIN)
1999-present