



Dorr G Dearborn, Ph.D., M.D.

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EDUCATION:

- 1957 Graduated from Ontario High School
1961 B.A. Chemistry, Willamette University
1969 Ph.D. Biochemistry, University of Minnesota
 (Thesis: Structural Studies on Human Serum Low Density Lipoprotein)
1970 M.D., University of Minnesota

TRAINING:

- 1968-1970: Research Fellow, Department of Biochemistry (Dr. D.B. Wetlaufer), Medical Sciences,
 University of Minnesota
1970-1971: Pediatric Intern, University of Minnesota Hospitals
1971-1974: Staff Associate (Sr. Surgeon), Lab. Biochemistry, Section of Cellular Biochemistry and
 Ultra-structure (Dr. E.D Korn), National Heart, Lung, and Blood Institute, National
 Institutes of Health
1983-1984: Pediatric Resident, Rainbow Babies and Children's Hospital
1984-1985: Pediatric Pulmonary Fellow (informal), Rainbow Babies and Children's Hospital
1989-1990: Visiting Scientist, Integrated Genetics/Genzyme (Dr. K. Klinger), Framingham, MA

PROFESSIONAL EXPERIENCE:

Case Western Reserve University appointments:

- 2003-present Mary Ann Swetland Professor of Environmental Health Sciences
2003-present Director, Mary Ann Swetland Center for Environmental Health
2001-present Professor of Pediatrics (with tenure)
1981-2001: Associate Professor of Pediatrics and Biochemistry (with tenure)
1985-2000: Associate Chief, Pediatric Pulmonary Division, Department of Pediatrics
1990-1991: Acting Chief, Pediatric Pulmonary Division, Department of Pediatrics
1974-1981: Assistant Professor of Biochemistry in Pediatrics

Rainbow Babies and Children's Hospital Appointments:

- 1984-present Staff Physician, University Hospitals of Cleveland
1993-1999: Medical Director, Pediatric Diagnostic Laboratories
1986-1988: Director of Pediatric Bronchoscopy Laboratory
1979-1985: Research Director, Cleveland Cystic Fibrosis Center

Appointments at other institutions:

- 1969-1971: Lecturer (part-time), Minnesota School of Anesthesia, Minneapolis, MN
1972-1974 Emergency room GMO (part-time),
 Prince George's County Hospital,
 Landover, Maryland

MEDICAL LICENSURE AND BOARD CERTIFICATION:

Minnesota, Maryland (inactive), Ohio
Specialty Boards: American Board of Pediatrics

MILITARY SERVICE:

1971-1974 Sr. Surgeon (Cdr), US Public Health Service
1974-1998 - inactive reserve

HONORS AND AWARDS:

Phi Eta Sigma, Omicron Delta Kappa
James E. Moore Medical Society (Minnesota Medical honorary)
Phi Lambda Upsilon (national chemical honorary)
Alpha Omega Alpha (national medical honorary)
Young Investigator - NHLBI, NIH
Tyler Prize nominee (nominated by Dean Berger; international prize for environmental science and leadership)
Mary Ann Swetland Professor of Environmental Health Sciences
Service Citation, Assembly of the Senate, State of Ohio

RESEARCH GRANT SUPPORT:

ACTIVE:

NIH NIEHS RO1 ES 09742-01

“Stachybotrys induced hemorrhage in the developing lung”

2/05/99 to 1/31/05, annual direct costs \$234,955, total costs 5 years \$1,739,811

PI: Dr. Dearborn, 25% effort

To establish infant rat model of pulmonary stachybotryomycotoxicosis and investigate the age-dependent pathophysiology along with markers of exposure.

EPA ORD/National Exposure Research Laboratory

“Risk assessment for exposure of children to toxic mold”

10/1/99 to 9/30/04, Total costs \$759,804

PI: Dr. Dearborn, 10% effort

To evaluate the home environment of children using a new molecular biology technique in quantitative mold identification and a new fungal toxicity assay.

PAST GRANTS & CONTRACTS (Recent and/or National Agencies):

HUD Office of Lead Hazard Control, Healthy Homes Initiative

Cuyahoga County Urban Mold and Moisture Program

Total costs \$3.15 million (3 yr grant, effective date 11/15/99; Total CWRU direct costs \$1,044,801, Total CWRU costs \$1,149,280.

CWRU Project Director: Dr. Dearborn, 15% effort

To evaluate the impact of mold and moisture in the home environment on infant and childhood health.

“Pulmonary Hemorrhage/Cleveland Infants: Prevention Project”

PI:Dr.

Dearborn, 20% effort

-The Cleveland Foundation, 7/1/97-6/30/00

\$23,000 first year of request; total \$68,000 over 3 years.

-The George Gund Foundation, 10/97-9/99

\$50,000 a year for two years

-The Abington Foundation, 11/97-10/98

\$26,717 for one year

-Ohio State Department of Health, 7/1/97-6/30/99

\$50,000 a year for two years

NIEHS/CDC RO3 ES08549
Animal Model for Pulmonary Hemosiderosis
9/1/97-8/31/99, \$50,000
PI: Dr. Dearborn, 20% effort

“Pulmonary Hemosiderosis in Infants” (Rainbow Board of Trustees)
1/1/96-12/31/97, two years, \$60,108 per year
PI: Dr. Dearborn, no stated effort

NIH-NIDDK P30 2765I-04 (Core Center Grant)
(4/1/91-3/31/96), (total costs for 5 years ca. \$3,750,000)
Studies in Cystic Fibrosis - P.I. - P.B. Davis
Co-Director, Epithelial Cell Culture Core

Cystic Fibrosis Foundation (national)
4/1/94-3/31/95, total direct costs, \$32,322
Cholera Toxin Activation of CFTR
P.I. - Dr. Dearborn

Cleveland Foundation
(12/1/94-5/31/95), Total costs \$11,000
Pulmonary Hemorrhage/Hemosiderosis in Infants of Eastern Cleveland
P.I. - Dr. Dearborn

NIH-NIDDK RO1-DK41331
1/15/89-1/16/94, Total costs \$706,318
Human Sweat Duct: In Vitro Model
P.I. - Dr. Dearborn, 15% effort

Cystic Fibrosis Foundation (national)
5/1/90-4/30/93, total direct costs \$339,120
Structure of the Nucleotide Binding Domain of CFTR
P.I. - Dr. Dearborn

Cystic Fibrosis Foundation (national)
2/28/88-2/27/91, total \$199,598
Human Sweat Duct: Regulation of Cytosolic pH
P.I. - Dr. D. Dearborn

Cystic Fibrosis Foundation (national)
11/1/86-10/31/88, total \$209,354
Human Sweat Duct Ion Transport: In Vitro Model
P.I. - Dr. Dearborn, 35% effort

NIH-NIGMS ROI GM 25930-07
2/1/83-1/31/86, \$275,275 total
Role of Amino Groups in Protein Structure and Function
P.I. - Dr. Dearborn, effort 25%

NIH ROI AI I9970-01
1/1/84-12/31/86
Cystic Fibrosis Lung Immunity and Pseudomonas Infection
P.I. - Uwe Sorensen
Dr. Dearborn Co. P.I., 10% effort

NIH ROI (NIDDK)
Comparison of CF and non-CF Mucus Glycoproteins

P.I. - Dr. Neil Jentoft
Dr. Dearborn, co-investigator, 5%

NIH-NIGMS GM 25930
12/1/78-11/30/81
Role of Lysyl Residues in Enzyme Catalysis
P.I. - Dr. Dearborn - total direct costs \$152,130

NIH-NHLBI HR 73920
9/15/77-3/14/81
Identification and Quantification of CF Factors
P.I. - Dr. Dearborn - total costs \$288,714

NIH-NHLBI HR 52957
5/14/75-5/14/78
Biochemistry of Pig and Human Tracheobronchial Mucous
P.I. - T.F. Boat - total costs to Dr. Dearborn, \$140,012

NIH-NIAMDD AM 08305
1/1/76-12/31/78
PPG: Studies in CF, P.I. - L.W. Matthews
Project: Water and Electrolyte Transport
- annual costs to Dr. Dearborn, \$31,091

NIH-NHLBI HL 13885
2/1/76-1/31/79
PPG: Studies in CF, P.I. - L.W. Matthews
Project: Activation of Alveolar Macrophages
- annual costs to Dr. Dearborn, \$13,864

NIH-NHLBI HL 17216
6/27/75-4/30/77
Young Investigator Grant: Plasma Membrane of Alveolar Macrophages
P.I. - Dr. Dearborn, total direct costs \$60,000

NIH-NIDDK AM 0835-18 (Program Project Grant)
1/1/79-12/31/83
Studies in Cystic Fibrosis - P.I. C.F. Doershuk
Project: Chemistry of Tracheobronchial Mucous Glycoproteins
(P.I. - Dr. Dearborn, effort 25%)

PROFESSIONAL SERVICE:

Study Sections:

3/1980	Member:	NIH Special Study Section, Bioanalytical and Metalbiochemistry
2/1983	Member:	(ad hoc) NIH Biochemistry Study Section, Medical Biochemistry, Review Group
1989	Member:	NIH-NIDDKD Special Review Committee for Cystic Fibrosis Research Centers
1990-1994	Member:	NIH, Medical Biochemistry (Biochemistry 2) Study Section

Editorial Boards:

1980-1984	Editorial Board:	<u>Spectrum</u> - a health professions publication of the national Cystic Fibrosis Foundation
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Professional Societies:

- Sigma Xi
- American Thoracic Society
- American Association for the Advancement of Science
- Biophysical Society
- Society for Complex Carbohydrates
- American Society of Biological Chemists

American Chemical Society
 New York Academy of Science
 The Protein Society
 Northern Ohio Pediatrics Society
 National Association of Physicians for the Environment
 CF Club (national society of cystic fibrosis researchers)
 1981-1982, Secretary; 1982-1983, Vice president; 1983-1984, President.

Advisory Groups:

1998- Member: HUD, Healthy Homes Initiative, Advisory Panel
 1999- Member: Advisory Board: HUD Healthy Homes Program, School of Public Health
 University of Alabama at Birmingham.
 1999- Member: Healthy Buildings Committee, NIEHS/Nat'l Assoc Physicians Environment.
 1998-99 Consultant: CDC, pulmonary hemorrhage in infants
 2000- Consultant: CDC, NCE, Air Pollution & Respiratory Disease Branch, acute idiopathic pulmonary
 hemorrhage in infants
 2003- Consultant: Children's Environmental Health Network, scientific expert

COMMITTEES:

University:

1982-1987 Member: Steering Committee, Chemistry of Life Processes (interdepartmental graduate
 training program)
 1988-1990 Senator: Faculty Senate (elected)
 1992-1993 Senator: Faculty Senate (elected)

School of Medicine:

1978-1979 Member: Case Western Reserve University School of Medicine, Medical Scientist Training
 Program Committee
 1980-1982 Project Coordinator: Cystic Fibrosis & Childrens Disease Research Center
 1980-1983 Member: CWRU School of Medicine, Research Committee
 1981-1983 Member: CWRU Medical Center, Research Space Evaluation Committee
 1985-1988 Member: CWRU School of Medicine, Faculty Council (elected)
 1990-1993 Member: Steering Committee, Developmental Biology Training Program
 1991-1995 Member: Steering Committee, Biochemistry Training Program
 1992-1993 Reporting Faculty Senator: CWRU School of Medicine, Faculty Council
 1997 Member: Special Dean's Committee on Scientific Conduct

Department of Pediatrics:

1975-1980 Chairman: Pediatric Human Investigation Review Board
 1980-1983 Member: Rainbow Babies and Children's Hospital, Space Committee
 1981-1983 Member: Dept. of Pediatrics Research Committee
 1981-1983 Member: Dept. of Pediatrics, Capital Space Planning Committee
 1981-1982 Chairman: Dept. of Pediatrics Research Space Committee
 1983 Member: Pediatric Hematology/Oncology Division Chief Search Committee
 1992-1996 Member: Pediatric Education Committee
 1992-1996 Member: Pediatric Safety Committee
 1997-1998 Member: Pediatric Morbidity and Mortality Committee
 2000-2001 Member: Pediatric Intern Selection Committee
 2001- Member: Pediatric Dept Committee on Appointments, Promotion and Tenure

University Hospitals of Cleveland:

1975-1983 Member: University Hospitals Institutional Review Board
 1976-1977 Member: University Hospitals Research Effort Subcommittee
 1979-1981 Member: University Hospitals Research Space Evaluation Committee
 1993 Member: Hospital Task Force for Offsite/outpatient Issues
 2002- Member: Ethics Committee, Rainbow Babies & Children's Hospital

Community:

- ? Cystic Fibrosis Foundation, Rainbow Chapter
 1976-1989 Member: Board of Trustees
 1980-1989 Vice President: Board of Trustees
 1976-1989 Member: Medical Advisory Board
 1979-1989 Chairman: Medical Advisory Board

? public health

- 1996-present Director: Pulmonary Hemosiderosis Prevention Program
 3/96 Organizer/Chair: Toxigenic Fungi Abatement Workshop
 7/98 Organizer/Chair: Residential Toxic Mold: NE Ohio Workshop on Identification, Evaluation and Mitigation

EDUCATIONAL ACTIVITIES:

Undergraduate:

- Summer research students(partial listing)-
 Robert Wytik
 Kristin Nichols
 Rachel Smith
 Anita Shanmugham
 Cheriyan John
 Timothy Yoost
 Azadeh Farzin
 Mitul Duhabia

Graduate School:

- 1974-1977 Graduate mini course - "Biochemistry of Endocytosis"
 1978, 1982 BIOC 454, Biochemistry Graduate Course (Kean and Dearborn)
 "Complex Carbohydrates"
 1978-1986 Pediatric Pulmonary Training Program - Chairman: Predoctoral committee

Graduate Students:

- James M. Sikela, M.S. in Biology
 Cleveland State University, 1979
 Thesis: High Resolution Two-Dimensional Electrophoresis of Amniotic Fluid
 as a Possible Means of Prenatal Diagnosis

Arthur Zinn, Ph.D. in Biochemistry

(advisor for last year after Dr. Don Carlson left)

Thesis: Studies on Thyroxin-binding Globulin (TBG); Carbohydrate Structure and Liver Binding

Jin Ye, M.S. in Biochemistry, 1995

Thesis: Nucleotide binding to the NBD₁ of CFTR

Post-doctoral Fellows

Daniel daRoza, Ph.D.
 Neil Jentoft, Ph.D.
 Thomas A. Gerken, Ph.D.
 Joyce E. Jentoft, Ph.D.
 Gregory Legris, M.D.
 Mark Payne, Ph.D.
 Robert Cohn, M.D.
 Louis Poncz, Ph.D.
 Iwona Yike, Ph.D.

Current Position

- Industrial scientist
 - Industrial scientist (Ricerca)
 - Assoc. Prof., Dept. of Pediatrics and Biochemistry, CWRU
 - Prof., Dept. of Biochemistry, CWRU, (former)Dean of Graduate Studies
 - Pediatric Pulmonologist, St. Joseph's Hospital, Phoenix, AZ
 - Industrial scientist (Hershey Chocolate)
 - Prof. & Chm, Dept. Pediatrics, MetroHealth System, CWRU
 - Free lance scientific editor
 -Sr. Res. Assoc., Dept Peds, CWRU

Medical School:

- 1975-1977 Laboratory on lung defense mechanisms
 1976-1977 Options course: Macrophages and Host Defense Mechanisms
 1976-1980 Lecture - Free Cells in the Lung, Pulmonary Committee
 1985-2003 Pediatric attending physician - ward teaching/care attending one month/year
 1994-2002 Preceptor - Pediatric Family Clinic
 2004 Organizer, Workshop on Cleveland's Lead Problem, first two med school classes

Medical Post-graduate:

- 1985-present Teaching attending for Pediatric residents
- 1986-present Teaching attending for Pediatric pulmonary fellows
- 1992-present Pediatric Pulmonary Physiology, fellows course - participant and lecturer
- 1986-1993 Pediatric Fellows Course - lecturer
- 1997-1998 Pediatric Residents Core Curriculum: "Infant apnea and SIDS"

BIBLIOGRAPHY:

Original/Peer Reviewed Papers:

1. Dearborn, D.G. and Wetlaufer, D.B.: Reversible thermal conformation changes in human serum low density lipoprotein. *Proc. Nat. Acad. Sci.* 62:179, 1969.
2. Dearborn, D.G. and Wetlaufer, D.B.: Circular dichroism of putative unordered polypeptides and proteins. *Biochem. Biophys. Res. Comm.* 29:314, 1970.
3. Korn, E.D., Dearborn, D.G., Fales, H.M., Sokoloski, E.A.: Phosphoglycan, a major polysaccharide constituent of amoeba plasma membrane containing 2-aminoethyl- phosphonic acid and l-hydroxy-2-amino ethylphosphonic acid. *J. Biol. Chem.* 248:2275, 1973.
4. Korn, E.D., Dearborn, D.G. and Wright, P.L.: Lipophosphoglycan of the plasma membrane of *Acanthamoeba castellanii*. Isolation from whole amoeba and identification of the water soluble products of acid hydrolysis. *J. Biol. Chem.* 249:3335-3341, 1974.
5. Dearborn, D.G. and Korn, E.D.: Lipophosphoglycan of the plasma membrane of *Acanthamoeba castellanii*. Fatty acid composition. *J. Biol. Chem.* 249:3342-3346, 1974.
6. Dearborn, D.G., Smith, S., Korn, E.D.: Lipophosphoglycan of the plasma membrane of *Acanthamoeba castellanii*. Inositol and phytosphingosine content and general structure features. *J. Biol. Chem.* 251: 2976-2982, 1976.
7. Jentoft, N. and Dearborn, D.G. Labeling of proteins by reductive methylation using sodium cyanoborohydride. *J. Biol. Chem.* 254:4359-4365, 1979.
8. Jentoft, J.E., Jentoft, N., Gerken, T.A. and Dearborn, D.G.: ¹³C NMR Studies of Ribonuclease A methylated with ¹³C formaldehyde. *J. Biol. Chem.* 254:4366-4370, 1979.
9. Thomassen, M.J., Boxerbaum, B., Demko, C.A., Kucjenbrod, P.J., Dearborn, D.G. and Wood, R.E.: Inhibitory effect of cystic fibrosis serum on *Pseudomonas* phagocytosis by rabbit and human alveolar macrophages. *Pediatr. Res.* 13:1085, 1979.
10. Thomassen, M.J., Demko, C.A., Wood, R.E., Tandler, B., Kuchenbrod, P.J., Boxerbaum, B. and Dearborn, D.G.: Ultra structure and function of alveolar macrophages from cystic fibrosis patients. *Pediatr. Res.* 14: 715-721, 1980.
11. Will, P.C., Taylor, A., Lebowitz, J.L., Dearborn, D.G. and Hopfer, U.: Saliva from patients with cystic fibrosis inhibits amiloride-sensitive sodium transport. *Pediatr. Res.* 14:1245-1249, 1980.
12. Jentoft, J.E., Dearborn, D.G., Gerken, T.A. and Jentoft, N.: The detection of intramolecular interactions of lysyl and N-terminal amino groups of reductively methylated proteins by ¹³C NMR. *Biophysical Discussion: Proteins and nucleoproteins.* *Biophys. J.* 32:97-99, 1980.
13. Jentoft, N.H. and Dearborn, D.G.: Protein labeling by reductive methylation using sodium cyanoborohydride: Effects of cyanide and metal ions on the reaction. *Analyt. Biochem.* 106:186-190, 1980.
14. Jentoft, J.E., Gerken, T.A., Jentoft, N.H. and Dearborn, D.G.: ¹³C methylated ribonuclease A: ¹³C NMR studies of the interaction of lysine 41 with active site ligands. *J. Biol. Chem.* 256:231-236, 1981.
15. Jentoft, J.E., Dearborn, D.G. and Bernier, G.: Characterization of a human cryoglobulin complex: A

- crystalline adduct of a monoclonal IgG and albumin. *Biochemistry* 21:289-294, 1982.
16. Gerken, T.A., Jentoft, J.E., Jentoft, N.H. and Dearborn, D.G.: Intramolecular interactions of amino groups in ¹³C-reductively methylated hen egg white lysozyme. *J. Biol. Chem.* 257:2894-2900, 1982.
 17. Bruce, M.C., Boat, T.F., Martin, R.J., Dearborn, D.G. and Fanaroff, A.: Proteinase inhibitors and inhibitor inactivation in neonatal airways secretions. *Chest* 815:445-455, 1982.
 18. Poncz, L. and Dearborn, D.G.: The resistance to tryptic hydrolysis of peptide bonds adjacent to N,N-dimethyllysyl residues. *J. Biol. Chem.* 258:1844-1850, 1983.
 19. Shogren, R., Jamieson, A.M., Blackwell, J., Cheng, P., Dearborn, D.G. and Boat, T.F.: The solution properties of porcine submaxillary mucin. *Biopolymers* 22:1657, 1983.
 20. Winnie, G.B., Dearborn, D.G., Klinger, J.D. and Thomassen, M.J.: Phagocytosis of *Pseudomonas aeruginosa* by feline alveolar macrophages: strain differences in non-immune serum. *Current Microbiol.* 9: 63-68, 1983.
 21. Sorensen, R.U., Klinger, J.D., Cash, H.A., Chase, P.A. and Dearborn, D.G.: In vitro lymphocyte inhibition by *Pseudomonas aeruginosa* culture supernatants. *Infect. Immunol.* 41:321-330, 1983.
 22. Gerken, T.A. and Dearborn, D.G.: ¹³C NMR studies of the submaxillary mucin from sheep. *Biochemistry* 23:1485-1497, 1984.
 23. Poncz, L., Gerken, T.A., Dearborn, D.G., Grobelny, D.E. and Galardy, R.E.: Inhibition of the elastase from *P. aeruginosa* by N-phosphoryl dipeptides and the kinetics of spontaneous hydrolysis of the inhibitors. *Biochemistry* 23:2766-2772, 1984.
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 26. Tomashefski, J.F., Bruce, M.C., Stern, R.C., Dearborn, D.G. and Dahms, B.: Pulmonary air cysts in cystic fibrosis. *Human Pathol.* 16:253-261, 1985.
 27. Waller, R.L., Johnson, L.R., Brattin, W.J. and Dearborn, D.G.: Erythrocyte cytosolic free Ca and plasma membrane Ca²⁺-ATPase activity in cystic fibrosis. *Cell Calcium* 6:245-264, 1985.
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 30. Tomashefski, J.F., Jr., Bruce, M.C., Goldberg, H.I. and Dearborn, D.G.: Regional distribution of macroscopic lung disease in cystic fibrosis. *Am. Rev. Respir. Dis.* 133:535-540, 1986.
 31. Fletcher, B.D., Dearborn, D.G. and Mulopulos, G.P.: MR imaging in infants with airway obstruction: Preliminary observations. *Radiology* 160:245-249, 1986.
 32. Miller, K.M., Dearborn, D.G., and Sorensen, R.U.: In vitro effect of synthetic pyocyanine on neutrophil superoxide production. *Infect. Immun.* 55:559-563, 1987.

33. Nutman, J., Berger, M., Chase, P., Dearborn, D.G., Miller, K.M., Waller, R.L., and Sorensen, R.U. Studies on the mechanism of T cell inhibition by the *Pseudomonas aeruginosa* phenazine pigment pyocyanine. *J. Immunol.* 138:3481-3487, 1987.
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35. Poncz, L., Jentoft, N., Ho, M-C., and Dearborn, D.G. Kinetics of proteolysis of hog gastric mucin by human neutrophil elastase and by *Pseudomonas aeruginosa* elastase. *Infect. Immun.* 56:703-704, 1988.
36. Cohn, R.C., Poncz, L., Waller, R.L., and Dearborn, D.G. Phosphoinositide content of erythrocyte membranes in cystic fibrosis. *J. Lab. Clin. Med.* 111:336-340, 1988.
37. Cohn, R.C., Kerckmar, C., and Dearborn, D.G. Safety and efficacy of flexible endoscopy in children with bronchopulmonary dysplasia. *Am. J. Dis. Child.* 142:1225-1228, 1988.
38. Berger, M., Sorensen, R., Tosi, M., Dearborn, D., and Doring, G. Complement receptor expression on neutrophils at an inflammatory site, the *pseudomonas*-infected lung in cystic fibrosis. *J. Clin. Invest.* 84: 1302-1313, 1989.
39. Manavalan, P., Dearborn, D., and McPherson, J. Sequence similarities between the nucleotide binding regions of G-proteins and membrane associated transporters: Implications for structural homology and structure-activity of CFTR. *Miami Bio/Technology Winter Symposium Short Reports* 3:129, 1993.
40. Wisnieski, J.J., Knauss, T.C., Yike, I., Dearborn, D.G., Narvy, R.L., and Naff, G.B. Unique Cl inhibitor dysfunction in a kindred without angioedema. I. A mutant Cl INH that inhibits Cls but not Clr¹. *J Immunol* 152(6):3199-3209, 1994.
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42. Manavalan P, Dearborn DG, McPherson JM, and Smith AE. Sequence homologies between nucleotide binding regions of CFTR and G-proteins suggest structural and functional similarities. *FEBS Letters* 366: 87-91, 1995.
43. Yike I, Ye J, Zhang Y, Manavalan P, Gerken T, and Dearborn DG. A recombinant peptide models of the first nucleotide binding fold of CFTR: Comparison of wild-type and Δ F508 mutant forms. *Protein Science* 5:89-97, 1996.
44. Yike I, Zhang Y, Je Y, and Dearborn D. Expression in *E. coli* of cytoplasmic portions of CFTR: Apparent bacterial toxicity of peptides containing R-domain sequences. *Protein Expression and Purification*, 7:45-50, 1996.
45. Montana E, Etzel RA, Allan T, Horgan TE, and Dearborn DG. Environmental risk factors associated with pediatric idiopathic pulmonary hemorrhage/hemosiderosis in a Cleveland community. *Pediatrics*, 99:vol, 1, 1997. (<http://www.pediatrics.org/cgi/content/full/99/1/e5>)
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47. Dearborn DG, Infeld MD, Smith PG, Brooks LJ, Carroll-Pankhurst C, Kosick R, Dahms BB, Balraj EK, Challenger R, Allan TM, Horgan TE, Staib R, Wallace, Halpin TJ, Jarvis BB, Miller JD. Update: Pulmonary Hemorrhage/Hemosiderosis Among Infants-Cleveland, Ohio, 1993-1996. *Morbidity Mortality Weekly Report*, January 17, 1997, 46:33-35.
48. Legris GH, Dearborn DG, Stern RC, Geiss CL, Hopfer U, Douglas JG, Doershuk CF. Sodium Space

- and Intravascular Volume: Dietary Sodium Effects in Cystic Fibrosis and Normal Adolescent Subjects. *Pediatrics* 101:48-56, 1998.
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 50. Jarvis, BB, Sorenson, WB, Hintikka, E-L, Nikulin, M., Zhou, Y, Jiang, J, Wang, S, Hinkley, S, Etzel, RA, and Dearborn, DG. Studies of Toxin Production by Isolates of *Stachybotrys atra* and *Memnoniella echinata* Isolated from Homes Associated with Pulmonary Hemosiderosis in Infants. *Appl. Environ. Microbiol.* 64: 3620-3625, 1998.
 51. Yike, I, Allan, T, Sorenson, WG, and Dearborn, DG. Highly sensitive protein translation assay for trichothecene toxicity in airborne particulates. Comparison with cytotoxicity assays. *Appl. Environ. Microbiol.* 65:88-94, 1999.
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2. Dearborn, D.G., Waller, R.L., and Yike, I. The Human Sweat Duct: cytosolic pH changes in response to autonomic agents. In: The Cellular and Molecular Basis of Cystic Fibrosis. P. Quinton and G. Mastella (eds.), San Francisco Press, 1988, pp. 141-149.
3. Etzel, R.A., and Dearborn, D.G. Pulmonary hemorrhage among infants with exposure to toxigenic molds: An update. In: 3rd International Conference on Bioaerosols, Fungi, and Mycotoxins: Health effect, Assessment. E. Johannig (ed), Eastern New York Occup Environ Hlth Center, Albany, NY, 1999, pp 79-83.
4. Yike, I, Walenga, R, and Dearborn, D, Comparison of the acute effects of *S. chartarum* and other indoor molds on the lungs of infant rats, In: 5th International Conference on Bioaerosols, Fungi, and Mycotoxins: Health effect, Assessment. E. Johannig (ed), Saratoga Springs, NY, 2003 (in press).
5. Haugland, RA, Meklin, T, Varma, M, Wymer, L, Dearborn, D, Yike, I, and Vesper, S, Method to classify environmental samples based on mold analyses by QPCR. In: 5th International Conference on Bioaerosols, Fungi, and Mycotoxins: Health effect, Assessment. E. Johannig (ed), Saratoga Springs, NY, 2003 (in press).

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1. Dearborn, D.G.: Water and electrolytes of exocrine secretions. In: Cystic Fibrosis: Future Prospectives. R. Talamo and J. Mangos (eds.), Stratton Intercontinental Medical Book Corp.: New York, 1976, pp. 179-191.
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6. Boat, T.F. and Dearborn, D.G. Theories of etiology and pathogenesis. In: Cystic Fibrosis. L.M. Taussig (ed.), Thieme-Stratton: New York, 1984, pp. 24-84.
7. Jentoft, N.H., and Dearborn, D.G. Protein labeling by reductive alkylation. In: Methods in Enzymology. Enzyme Structure, Part I. C.H.W. Hirs and S.N. Timasheff (eds.), Academic Press, 1983, Vol. 91, pp. 570-579.
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1. Dearborn DG. Pulmonary Hemosiderosis (pulmonary hemorrhage), in Nelson's Textbook of Pediatrics, 16th edition. Editors: R Behrman, R Kleigman, H Jenson, p 1295-1297, 2000. 17th edition, 1455-1457, 2003.

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Patents:

Provisional patent with patent filing in process- "Toxicity assay for trichothecene mycotoxins".

Abstracts (incomplete listing):

1. Dearborn, D.G., Korn, E.D.: Lipophosphoglycan of the amoeba plasma membrane. Am. Soc. Biol. Chem. and Biophys. Soc. Meeting. June 1974, Minneapolis, MN.
2. Dearborn, D.G.: Water and electrolyte transport. GAP Conference on Polyamines. Fogarty Center, NIH, Bethesda, MD, Jan. 28-30, 1976.
3. Dearborn, D.G., Taylor, A. and Gerken, T.A.: Sodium transport inhibition in cystic fibrosis. Natl. Pediatr. Conf. Honoring John A. Anderson. Minneapolis, June 16-18, 1977.
4. Tandler, B., Dearborn, D.G., daRoza, D., Berk, G.: Formed elements in human semen. J. Cell Biol. 75: 171a, 1977.
5. Jentoft, N. and Dearborn, D.G.: Protein labeling by reductive methylation using sodium cyanoborohydride. Am. Soc. Biol. Chem., June 4-8, 1978, Atlanta, GA, Fed. Proc. 37:abst. #1326.
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7. Jentoft, J.E., Gerken, T.A., Jentoft, N., Dearborn, D.G.: Studies of the active site lysine of ribonuclease A by ¹³C NMR. Biophysical Society, Feb. 1979, Atlanta, GA.
8. Jentoft, J.E., Gerken, T.A., Dearborn, D.G. and Jentoft, N.H.: A ¹³C NMR study of individual lysine residues in ¹³C methylated lysozyme. XIth International Congress of Biochemistry, Toronto, July 1979.
9. Boat, T.F., Jentoft, J.E., Dearborn, D.G. and Cheng, P.W.: Hydration of tracheal mucus: Role of calcium. American Thoracic Society, May 1980.
10. Dearborn, D.G., Will, P.C., Gerken, T.A. and Hopfer, U.: Partial purification of an inhibitor of sodium transport from cystic fibrosis saliva. 8th International CF Congress, Toronto, May 1980.
11. Hopfer, U., Will, D.C. and Dearborn, D.G.: Cystic Fibrosis: A secondary endocrine or target tissue sensitivity problem in epithelial electrolyte transport? 8th International CF Congress, Toronto, May 1980.
12. Gerken, T.A., Cheng, P. and Dearborn, D.G.: ¹³C NMR study of the molecular dynamics of mucous glycoproteins. Am. Soc. Biol. Chem. and Biophys. Soc. Meeting, selected for minisymposium presentation. New Orleans, June 1980.
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14. Poncz, L. and Dearborn, D.G.: The resistance to tryptic hydrolysis of peptide bonds adjacent to N,N-dimethyl lysyl residues. Abst. #352, Am. Soc. Biol. Chem., St. Louis, MO, June 1981.
15. Gerken, T.A., Jentoft, J.E., Jentoft, N. and Dearborn, D.G.: Intramolecular interactions of protein amino groups. ¹³C NMR studies of reductively methylated HEW lysozyme. Abst. #1899, Am. Soc. Biol. Chem., St. Louis, MO, June 1981.
16. Bruce, M.C., Boat, T.F., Martin, R.J., Dearborn, D.G. and Fanaroff, A.: Inactivation of alpha₁ proteinase

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17. Winnie, G.B., Klinger, J., Dearborn, D.G., and Thomassen, M.J.: Kinetics of phagocytosis of *Pseudomonas aeruginosa* by cat alveolar macrophages. Reticulo-endothelial Society Meeting, Milwaukee, WI, Oct. 1981.
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 19. Poncz, L., Gerken, T.A. and Dearborn, D.G.: The stability of N-phosphoryl peptides in aqueous solutions. Am. Soc. Biol. Chem., San Francisco, June 1983.
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 21. Sorensen, R.U., Klinger, J.D., Cash, H.A., Chase, P.A. and Dearborn, D.G.: Inhibition of lymphocyte proliferation by *Pseudomonas aeruginosa* phenazine pigments. CF Club, Kansas City, May 1983.
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 24. Naff, G.B., Wisnieski, J.J., Dearborn, D.G. and Boat, T.F.: Increased mortality associated with deficiency alternative complement pathway activity and/or circulating immune complexes in patients with CF. CF Club, Kansas City, May 1983.
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 29. Welsh, M.J., McCann, J.D., and Dearborn, D.G.: Chloride and sodium channel currents in normal and cystic fibrosis sweat duct epithelium. Fed. Proc. 46:1271 (abst #3367), 1987.
 30. Yike, I., Hu, G., and Dearborn, D. Bacterial expression of the major cytoplasmic portion of CFTR. Fifth Ann'l North American CF Conference, Dallas, TX, Oct. 2-5, 1991.
 31. Alpert, S.E., Kercksmar, C.M., and Dearborn, D.G. Vocal cord/laryngeal dysfunction complicating asthma management in children. First Nat'l Conference on Asthma Management, Washington, D.C., Oct. 1992 (Sponsor: NIH).
 32. Yike, I., Ye, J., Zhang, Y., Neebes, K., Gerken, T., and Dearborn, D. Purification and characterization of CFTR-NBD₁ peptides expressed in *E. coli*. Seventh Annual North American CF Conference, Dallas, TX, Oct. 13-16, 1993.
 33. Dearborn, D., and Manavalan, P. Sequence homologies between nucleotide binding regions of CFTR and

- G-proteins suggest structural and functional similarities. Eighth Annual North American CF Conference, Orlando, FL, Oct. 20-23, 1994.
34. Yike, I., Ye, J., Manavalan, P., Gerken, T., and Dearborn, D. Recombinant peptide models of the first nucleotide binding fold of CFTR: Initial characterization of wild-type and $\Delta F508$. Eighth Annual North American CF Conference, Orlando, FL, Oct. 20-23, 1994.
 35. Demko, C., Byard, P., and Dearborn, D. Late onset of chronic *Pseudomonas aeruginosa* infection in patients with the genotype $\Delta F508/N1303K$. Eighth Annual North American CF Conference, Orlando, FL, Oct. 20-23, 1994.
 36. Yike, I., Miller, MJ, Dearborn, DG, Animal model of *Stachybotrys chartarum* induced hemorrhage in the developing lung. Am Lung Assoc/Am Thoracic Soc. Internat Conference, San Diego, Apr'99
 37. Miller, MJ, Yike, I, Dreshaj, G., Dearborn, DG, and Haxhiu, MA. Exposure to *Stachybotrys chartarum* causes apnea and alteration in respiratory function in rat pups, Am Lung Assoc/Am Thoracic Soc. Internat Conference, San Diego, Apr'99
 38. Dearborn, DG, Smith, P, Infeld, M, and Etzel, RA. Idiopathic pulmonary hemorrhage in infants: Clinical Profile. Am Lung Assoc/Am Thoracic Soc. Internat Conference, San Diego, Apr'99
 39. Yike, I, Rand, T, Dearborn, D, Proteases from the spores of *S. chartarum*, Am Lung Assoc/Am Thoracic Soc. Internat Conference, Atlanta, May, 2002.
 40. Miller, M, Yike, I, Dearborn, D, Combined effects of passive smoke inhalation and exposure to *Stachybotrys chartarum* on respiration in newborn rat pups, Soc for Pediatr Res Annual Meeting, Washington DC, 2002.
 41. Yike, I, Rand, T, Walenga, R., Dearborn, D, Acute inflammatory responses to *S. chartarum* in the lungs of infant rats: time course and possible mechanisms. Am Lung Assoc/Am Thoracic Soc. Internat Conference, Seattle, May, 2003.

Editorial Correspondence:

1. Liedtke, C., Boat, T.F., Stern, R.C. and Dearborn, D.G.: Sodium transport in cystic fibrosis fibroblasts. N. Engl. J. Med. 304:975, 1981.
2. Dearborn, D.G., Hopfer, U. and Legris, G.J.: Sweat gland salt wasting in cystic fibrosis. N. Engl. J. Med. 309:796, 1983.
3. Alpert, S.E., Kercksmar, C.M., and Dearborn, D.G. On vocal cord dysfunction in wheezing children. *Pediatr. Pulmonol.* 10:142-143, 1991.
42. Etzel RA, Montana E, Dearborn DG, Smith PG, Infeld MD, Dahms BB, Carroll-Pankhurst C. SIDS or murder? (letter to editor) *Pediatrics* 1998;101:953-955.
43. Etzel RA, Sorenson WG, Miller JD, Jarvis BB, Allan TM, Dearborn DG. Mycotoxins and pulmonary hemorrhage (letter to editor) *Arch Pediatr Adolesc Med* 1999;104:576.
44. Hodgson M, Dearborn DG. Human pulmonary disease and exposure to *Stachybotrys chartarum* and other toxigenic fungi, *J. Occup Environ Med*, 44:705-707, 2002.

INVITED PAPERS/WORKSHOPS/SHORT COURSES:

- 1/76 - Cystic Fibrosis GAP Conference: Polyamines, Bethesda, Maryland
- 5/76 - International Cystic Fibrosis Conference: Cystic Fibrosis: Projections into the Future, Jerusalem, Israel
- 11/76 - Pacific Northwest Polyamine Conference: Portland, Oregon
- 6/77 - National Pediatric Conference Honoring John A. Anderson: Univ. of Minnesota School of Medicine
- 10/79 - High Performance Liquid Chromatography Workshop: Cleveland State University
- 5/80 - Biophysical Discussions: Proteins and Nucleoproteins, Arlie House, Virginia

- 3/81 - Cystic Fibrosis GAP Conference: Biology of Mucus, Phoenix, Arizona
 11/81 - Department of Chemistry, Youngstown State University
 3/82 - Cystic Fibrosis GAP Conference: Electrolyte Transport, San Diego
 3/82 - Cystic Fibrosis GAP Conference: Heterozygote Detection and Prenatal Diagnosis, New York
 1982 - "CF Club" (national meeting of cystic fibrosis researchers)
 Chairman: Session III - Screening & Protease, Washington, D.C.
 1983 - "CF Club" Chairman: Session II - Infection and Immunity, Kansas City 1983
 8/84 - Intracellular Calcium Regulation, Symposium held in Ulm, Germany
 1985 - "CF Club" Chairman: Session I - Cellular Physiology and CF, Anaheim, CA
 5/85 - Institute of Pulmonary Medicine, University of Texas, Tyler, Texas
 8/85 - Merck Institute for Therapeutic Research, Rahway, New Jersey
 4/86 - Department of Pediatrics, University of Michigan, Ann Arbor, Michigan
 1987 - International Conference on the Cellular and Molecular Basis of
 Cystic Fibrosis, Verona, Italy
 10/87 - Round table leader (Calcium homeostasis, North American CF conference, Toronto, Canada
 5/89 - Regional Cystic Fibrosis Meeting: Update on Basic and Clinical Research, Burton, Ohio
 4/90 - International Workshop: The Identification of the CF Gene: Recent Progress and New Research
 Strategies, Istituto Giannina Gaslini, Genoa, Italy
 11/90 - Pediatric Grand Rounds (MetroHealth Medical Center)
 Cystic Fibrosis: Understanding the Gene
 10/92 - Visiting Professor, Medical College of Chicago
 Lecture on cystic fibrosis to first and second year medical school classes
 Research seminar "Nucleotide Binding Domains of CFTR" in Biochemistry Department
 -Talk entitled "Acute pulmonary hemorrhage/hemosiderosis in infants: A disease linked to indoor air
 pollution" given at the following*
 5/95 *Pediatric Grand Rounds, Mt. Sinai Hospital
 6/95 -Peptide model of the first nucleotide binding domain of CFTR,
 Cystic Fibrosis Williamsburg Conference, Williamsburg, VA
 8/95 Pulmonary hemorrhage/hemosiderosis in Cleveland infants,
 Special conference, Center for Disease Control and Prevention,
 Atlanta, GA
 10/95 Panel discussion on federal, state, and local public/private health agency cooperation,
 Ohio Environmental Health Association, Atwood Lake State Park
 11/95 *-Occupational/Environmental Health Grand Rounds, Metrohealth Medical Center
 2/96 *-Cleveland Regional Perinatal Network
 *-Pediatric Grand Rounds, Metrohealth Medical Center
 3/96 *-Medical Staff Conference, Health Hill Hospital
 4/96 *-Pediatric/Obstetrics Grand Rounds, St. Luke's Medical Center
 5/96 -Pediatric case discussion: Pulmonary hemorrhage and hemosiderosis in infants: The
 Cleveland Outbreak, American Thoracic Society annual meeting, New Orleans, LA
 +Talk entitled: "Acute Pulmonary Hemorrhage in Infants: The Cleveland Outbreak"
 10/96 +-Ohio Thoracic Society, Annual Meeting, Salt Fork, Ohio
 6/97 +-Gordon Research Conference: Mycotoxins and Phycotoxins.
 10/97 +-NE Ohio Regional Infection Control Committee,
 11/97 +-Pediatric Grand Rounds, Univ. of Utah School of Medicine, Salt Lake City,
 2/98 +-Conference on: Microbiological Contamination of Indoor Environments, New Orleans
 3/98 -Toxic Mold Workshop, American Industrial Hygienists Assoc., Fairfax, VA
 4/98 +-Indoor Mold and Children's Health, an international workshop supported by the US EPA
 4/98 +-Ohio Environmental Health Association, Columbus
 5/98 +-NE Ohio GRADS workshop, (program to keep pregnant and young mothers in school)
 5/98 +-Second Annual Mexican-American Binational Pulmonary Medicine Course, The Management of
 Respiratory Infections, Cleveland
 9/98 +-Saratoga Springs, NY, Third international conference on bioaerosols, fungi and mycotoxins: health
 effects, assessment and prevention
 10/98 +-Toronto, ON, Mold in the indoor environment- Public health concern, significance and response;
 meeting organized by McMaster Univ., Institute of Environment and Health, related to toxic mold
 contamination of portable school classrooms.
 10/98 +-Columbus, OH, annual meeting of the Association of Ohio Health Commissioners
 11/98 +-Cleveland, Department of Medicine, CWRU, UHC, Grand Rounds

- 11/98 +-Washington, D.C., staff of the Office of Lead Hazard Control and related agencies, US Dept HUD
- 11/98 +Bethesda, MD, annual meeting of the American College of Osteopathic Pediatricians, plenary session
- 11/98 +Lorain, OH, faculty conference of the Lorain County Community College
Congressional testimony on pulmonary hemorrhage in infants and residential toxigenic mold
- 2/3/98 Sam Rayburn Bldg, Washington, D.C., House Appropriations Subcommittee on Labor, Health & Human Services, & Education
-Dept of HHS budgets for NIH and CDC
- 4/21/98 US Capitol, Washington, D.C., House Appropriations Subcommittee on VA, HUD, & Independent Agencies
-Dept of HUD budget and EPA budget
Talk entitled "Pulmonary Hemorrhage in Infants: The Cleveland Outbreak"; given at the following:
- 7/8/99 Cleveland, UHC Home Care nurses
- 8/25/99 Cleveland, Cuyahoga County 'Welcome Home' nurses
- 9/15/99 Atlanta, GA, Center for Disease Control and Prevention, expert review panel,
Update of Cleveland outbreak of pulmonary hemorrhage in infants
- 3/31/00 Behavioral Teratology: Overview, The Millennium Conference of the Great Lakes Society of Pediatric Psychology, Cleveland
- 5/25/00 "Stachybotrys chartarum and pulmonary hemorrhage in infants", symposium on Public Health Implications of Fungi in Indoor Environments, American Society of Microbiology, Los Angeles
- 9/15/00 "Human health implications of mycotoxins in the environment", symposium on 'Mycotoxins in the Environment' at the Association of Organic Analytical Chemists International, Philadelphia,
- 11/6/00 "Health Effects of Toxigenic Fungi", Environmental Division, Cleveland Department of Public Health.
- 11/29/00 "Health Effects of Inhaled Mycotoxins: A Cleveland Pediatric Perspective", joint seminar to the Dept's of Plant Pathology and Toxicology, Texas A & M, College Station
- 1/22/01 "Pulmonary Hemosiderosis Prevention Program", Division of Building and Housing, City of Cleveland.
- 4/23/01 "Idiopathic Pulmonary Hemorrhage in Infants: Cleveland Update", US EPA, MERL, Cincinnati, Ohio
- 6/8/01 "Health Effects of Fungal Exposure: Pulmonary Hemorrhage in Infants", Am. Industrial Hygiene Conference and Expo, co-spon by AIHA and ACGIH.
- 8/14/01 Health effects of inhaled mycotoxins: Cleveland perspective, Healthy Home Air Conference, Chicago.
- 9/27-28/01 Visiting Professor, Univ of Iowa, Dept Pediatrics, Iowa City
Allergy/Pulmonary Division Res Seminar: Health effects of inhaled mycotoxins
Grand Rounds: Why do young lungs bleed?
- 10/18/01 Mold & Children: What we've learned since the Cleveland outbreak, Aerias National Workshop on Indoor Mold, Atlanta
- 10/30/01 Acute pulmonary hemorrhage in infants: The Cleveland outbreak, lecture in course entitled Intro to Occup and Environ Medicine, Dept Epidem & Biostat, CWRU
- 3/4/02 Health effects of molds and mycotoxins, Am Acad Allergy Asthma Immunology, 58th Annual Meeting, New York City.
- 3/22/02 Toxigenic Fungi: Are they significant environmental health threats. Research Seminar, Department of Pediatrics, CWRU, RB & C.
- 3/26/02 Toxigenic Fungi: Are they significant environmental health threats. Nat'l Acad Sci/ Inst of Med panel on "Damp indoor spaces and health", Washington, DC.
- 4/18/02 Mold / Biologicals: Medical Consequences, Annual Affordable Comfort Conference 2002, Cincinnati.
- 10/16/02 Toxigenic Fungi: Are they significant environmental health threats, Aerias National Workshop on Indoor Mold, Atlanta
- 10/30/02 "Mold in Housing" workshop, National Institute of Standards and Technology (BFRL) and US Dept HUD (Healthy Housing Initiative), Gaithersburg, MD
- 12/6/02 Consensus Conference: Clinical Evaluation of Mold Exposed Patients, Wayne State Univ and Am Occup Environ Clinics, Detroit
- 5/26/03 Health effects on children with extensive mold exposure, The 15th Congress of the International Society for Human and Animal Mycology, San Antonio.

- 9/12/03 Roundtable presentation/discussion: Health effects of extensive mold exposure, 5th International Conference on Bioaerosols, Fungi, and Mycotoxins:Health effect, Assessment, Saratoga Springs, NY,
- 9/24/03 Toxigenic Fungi: Are they significant environmental health threats, Research seminar, Division of Critical Care and Pulmonary Medicine, Department of Medicine, Univ Hosp Cleveland, CWRU.
- 12/11/03 Health effects on children with extensive mold exposure, Expert Clinicians' Panel on Mold, Assoc. Occup. Environ Clinics, Soc Occup Environ Hlth, Johns Hopkins School of Medicine
- 6/28/04 Mold-related Health Effects in Children, conference on "Mold-Related Health Effects", spon. NIEHS, Soc Occup Envir Hlth, Assoc Occup Environ Clinics, et al., Washington DC
- 6/28/04 Pulmonary Hemorrhage in Infants: Clinical Update and Concepts of Mold Mechanisms of Pathogenesis, conference on "Mold-Related Health Effects", spon. NIEHS, Soc Occup Envir Hlth, Assoc Occup Environ Clinics, et al., Washington DC

