

CURRICULUM VITAE

August 11, 2020

ARTHUR O. ANDERSON, M.D., Ph.D.(h.c.)

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Present Activities: Member of the Hood College Board of Trustees; Member Board of Directors at Hospice of Frederick County; Member Board of Kiwanis Club of Frederick Foundation; Volunteer with "Blessings In A Backpack" and Mission of Mercy Food Distribution; Bicycle Tourism anywhere in the world

Previous Positions [2007 04-30 - 2016 10-31 DA Civilian (Retired)]:

1. Former Director, Office of Human Use and Ethics and Research Integrity

Officer: (a.) Participated in the development of Institute Policy on Ethics in Research. (b.) Nurtured the Human Subjects Protection Program assuring ethical conduct. (c.) Advised senior officials on ethics-sensitive issues that impact institute operations. (d.) Supervised the Human Protection Administrator and other office staff. (e.) Served as the point of contact for HIPAA and CLIAA compliance. (f.) Conducted inquiries and investigations upon receipt of allegations of scientific misconduct or improper researcher behavior.

2. Former Member, USAMRIID and HQ USAMRMC IRBs: (a.) Attend and participate in all convened IRB meetings. (b.) Prepare timely and intensive fact-finding reviews of minimal risk protocols that qualify for expedited review; (c.) Advise senior officials in writing of the approvability of protocols, and addenda; (d.) Conduct substantive continuing review of active protocols; (e.) Investigate issues arising during conduct of studies; and (f.) Participate in Local and National Meetings of Organizations whose focus is Protecting the Rights and Welfare of Human Volunteer Subjects.

3. Available to Collaborate in Scientific Investigations (a.) Design research protocols that elucidate the mechanisms of immunity for existing vaccines and second generation recombinant products, particularly the forms of immunity which are essential for protection against aerosol exposure. (b.) Consult with other investigators on technologies which may be applied to improve vaccine efficacy. (c.) Initiate intramural and extramural collaborations for novel research approaches to institute research programs.

Education / Degrees:

1962-66 B.S. **Wagner College**, Staten Island, NY

1965 Independent Study in Biology: "Immunoelectrophoresis of Abnormal Serum Proteins, including that of a patient with a beta 2A myeloma (later called IgA)," at **U.S. Public Health Service Hospital, Staten Island, N.Y.** (Mr. Valentine Connolly)

1966-70 M.D. **University of Maryland School of Medicine**, Baltimore, MD

1969 September 8-30 [Special student](#), Department of [Art as Applied to Medicine](#), **The Johns Hopkins University**, Baltimore, MD. (Ms. Ranice W. Crosby)

16 May 2003 [Ph.D. Philosophy](#) (*honoris causa*) **Wagner College**, Staten Island, NY

Postgraduate Training and Fellowship Appointments:

1970-71 Intern in Pathology, **The Johns Hopkins Hospital**, Baltimore, MD

1971-73 Resident in Pathology, **The Johns Hopkins Hospital**, Baltimore, MD

1970-74 Fellowship, Experimental Pathology, **The Johns Hopkins University**, Baltimore, MD (with Norman D. Anderson and John Yardley)

1974 Visiting Fellow EM Cytochemistry (with David C. Brandes), **NIH, NICHD Gerontology Research Center**, Baltimore, MD

Licensure:

1975- Licensed to Practice Medicine in the State of Maryland

Specialty Certification:

1976 [Anatomic Pathology](#), American Board of Pathology (November 22, 1976)

Military Service:

U.S. Army Medical Corps (1970 - 2007)

Military Occupational Specialty: MOS 61U9A 8Z

Promoted: Colonel, US Army, Medical Corps on June 29, 1988

Retired: March 31, 2007 with 29 yrs, 9 mo Active Duty (41 yrs incl. reserve & constructive credit)

Duty Assignments

2004-2007 Chief, Office of Human Use and Ethics, Headquarters, USAMRIID, Fort Detrick

1992-2007 Director, Clinical Laboratory accredited by C.A.P. LAP No. 1359301; AU-ID: 1179136

1975-2007 Chairman, Human Use Committee (IRB), USAMRIID, Fort Detrick

1995-04 Chief, Dept. Clinical Pathology, Diagnostics Systems Division, USAMRIID, Fort Detrick

1989-95 Chief, Dept. Respiratory and Mucosal Immunity, Disease Assessment Division, USAMRIID, Fort Detrick

1983-88 Assistant Chief, Airborne Diseases Division, USAMRIID, Fort Detrick

1980-83 Break In Service to be a Civilian Assistant Professor at U.Penn

1974-80 Pathologist (Clinical Laboratory Ward 200, WRAMC at [USAMRIID](#))

1970-74 Berry Plan at Johns Hopkins Hospital (Inactive Reserve with Constructive Credit: BEPD 1 July 1966)

Faculty Appointments:

1 July 1973 - 29 June 1974 Masters Thesis Instructor, Department of Art as Applied to Medicine, **The Johns Hopkins University**, Baltimore, MD

1980-83 Assistant Professor of Pathology (School of Medicine) and Assistant Professor of Biology (Faculty of Arts and Sciences), **University of Pennsylvania**, Philadelphia, PA

2 February 2000- Adjunct Assistant Professor of Pathology, **Uniformed Services University of Health Sciences**, Bethesda, MD

Mentoring Undergraduates and Graduate Students:

1973-74 Barbara L. Gould. Masters Thesis Instructor, "The Microvasculature of the Rat Lymph Node, with emphasis on the High Endothelial Venule," Art as Applied to Medicine, The Johns Hopkins University, Baltimore, MD

1979-80 Jonathan T. Warren. Masters Thesis Instructor, "Lymphocyte Chemotaxis Under Agarose using Thoracic Duct Lymphocytes," BioMedical Technology, Hood College, Frederick MD

1989-91 Kimberly Anne Siwinski, Independent Study Student Advisor, "Immunohistochemistry of mouse lymphatic tissues," Biology Department, Hood College, Frederick MD

1989-91 Kimberly Boykin. Independent Study Student Advisor, "Lymphocyte Homing in vitro, effect of heparin and protamine," Biology Department, Hood College, Frederick MD

1991-94 Brandi Lohrig. Independent Study Student Advisor, "Mobilization of CD8+ Intraepithelial Lymphocytes by Cholera Toxin," Biology Department, Hood College, Frederick MD

1998-99 Tara Waterman. Undergraduate Honor's Thesis Advisor (Outside Reader), "[Web Site on Ebola Virus](#)" Department of Human Biology, Stanford University, Palo Alto, CA.

2002-03 Christopher D. Beardmore, CIP. Human Protections Administrator (2002 01-14 - 2003 03-17)

2003-05 Jeffrey E. Stephenson, PhD, CIP. Human Protections Administrator(2003 04-07 - 2005 06-03)

2005-09 Douglas G. Osborne, CIP. Human Protections Administrator (2005 08-10 - 2009 10-16)

2010-16 Amy L. Holstein, RN, MPH, CCRP, CIP. Human Protections Administrator (2010 01-20 - 2012 04-20)

Postdoctoral Fellows :

1986-89 M. Louise M. Pitt. "The Role of Macrophage Translocation of Inhaled Particulate Antigen to Lymphoid Tissue in Initiating Respiratory Mucosal Immunity to Aerosol Disseminated Pathogens." Tenured by the National Research Council of the National Academy of Sciences Associateship program.

1990-92 Rangarajan B. Narayanan. Passive Protection of Mice Against Lethal *Francisella tularensis* (LVS-strain) Infection by the Sera of Human Recipients of the Live Tularemia Vaccine," Tenured by the National Research Council of the National Academy of Sciences Associateship program.

1993-95 Peter D. Weinstein. "Analysis of Molecular Genetic Events Leading to High Affinity Antibody Expression in Galt B-Lymphocytes." Tenured by the National Research Council of the National Academy of Sciences Associateship program.

Visiting Post Doctoral Fellows:

1988-1989 Christian Groenhoej Larsen. Side by side analysis of a purified T Lymphocyte Chemotactic Factor and recombinant Neutrophil Activating Protein-1 for in vitro chemotaxis and ability to attract leukocytes in vivo after inoculation in rat ears. Christian, from Aarhus Denmark, was a post doctoral fellow the Biological Response Modifier Program at Frederick Cancer Research Facility

1989-91 Alberto Degrassi. "Mechanisms of plasmacytoma development in Balb/c mice." Visiting fellow from University of Bologna, Bologna, Italy and the Laboratory of Genetics, NCI/NIH, Bethesda, MD

1991-93 Peter D. Weinstein. "Analysis of Molecular Genetic Events Leading to High Affinity Antibody Expression in Galt B-Lymphocytes." Visiting Scientist from Molecular Immunogenetics Section of the Laboratory of Immunology, NIAID/NIH, Bethesda MD.

1993-97 Richard Pospisil, "Isolation of B-cell clones from germ-free rabbits," Visiting scientist from Section of Immunology and Gnotobiology, Institute of Microbiology, Czech Academy of Sciences, Prague, Czech and Slovak Federal Republic.

1995-99 Enrico Schiaffella. "Rapid development of recombinant high affinity antibodies by PCR of IgH CDRs from antigen-specific B-cells in lymphatic tissues from immune rabbits." Visiting fellow from University of Perugia, Perugia Italy, and Fogarty Scholar in the Laboratory of Immunology, NIAID/NIH, Bethesda MD.

1996-00 J. Elizabeth Gretz. "Physiological Studies on the function of the Fibroblastic Reticular Cell Conduit in Rats and Mice." Visiting fellow from Human Immunology Section, Experimental Immunology Branch, National Cancer Institute, Bethesda, Maryland 20892

1999-00 Harold Obiakor. "Micromanipulation and collection of antigen-specific B-cells from frozen sections of rabbit lymphatic tissues for isolation and analysis of immunoglobulin variable region genes." Visiting fellow from Nigeria, and Postbaccalaureate IRTA fellow in the Laboratory of Immunology, NIAID/NIH, Bethesda MD.

1999-00 Joseph Dasso. "Immuno-Morphological analysis of Developing Human and Rabbit Mucosal Lymphatic Tissues." Visiting fellow from the Laboratory of Immunology, NIAID/NIH, Bethesda MD.

Extramural PhD Thesis Reviewer:

1987. Debra Zimmerman Kotloff. "The Effect of Helper T cells on the Expression of Antibody Isotypes by B cells cultured in vitro," Dissertation in Immunology, Department of Biology, University of Pennsylvania, Philadelphia, PA.

1992. Carol Elizabeth Schrader. "Dendritic Cells Support IgA Production in Clonal B cell Microculture." Dissertation in Immunology, Department of Biology, University of Pennsylvania, Philadelphia, PA.

1992. Shin-Young Park. "Studies on the Spectrin Reorganization and Cell Adhesion in Human Lymphocytes" Dissertation in Cell Biology, Department of Microbiology and Immunology, Roswell Park Division of the State University of New York at Buffalo. Buffalo NY

Hospital and Administrative Appointments:

1975-80 Chairman, Human Use Committee, Headquarters, USAMRIID, Fort Detrick

1980-83 Professional Staff, Division of Autopsy Pathology, Hospital of University of Pennsylvania, Philadelphia, PA

1984-07 Chairman, Human Use Committee (IRB), Headquarters, USAMRIID, Fort Detrick

1991-07 Director, Clinical Pathology Laboratory accredited by The College of American Pathologists [LAP No. 1359301, AU-ID 1179136], Headquarters, USAMRIID, Fort Detrick

2007-16 Director, Office of Human Use and Ethics, Headquarters, USAMRIID, Fort Detrick

External Advisory and Consultative Positions (Past and Present)

1978-93 Consultant: Laboratory of Genetics ([Dr. Michael Potter](#)), National Cancer Institute, Bethesda, Maryland (Phone: 301 496-2777)

1984-03 Consultant: Laboratory of Molecular Immunoregulation ([Dr. Joost J. Oppenheim](#)), Biological Response Modifiers Program, National Cancer Institute, Frederick Cancer Research Facility, Frederick Maryland (Phone: 301 846-1551)

1991-04 Memorandum of Understanding for Collaboration: Molecular Immunogenetics Section ([Dr. Rose Mage](#)), Laboratory of Immunology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda Maryland

1992-05 Consultant: Human Immunology Section ([Dr. Stephen Shaw](#)), Experimental Immunology Branch, National Cancer Institute, Bethesda, Maryland (Phone: 301 496-3626)

1992 Special Review Committee RFA:AI-92-02, "Enhancing Vaccine Immunogenicity", Microbiology and Immunology Review Section, Scientific Review Branch, DEA, NIAID, NIH, Bethesda, Maryland 20892

1 March 1999 - 28 February 2005 Two Successive Terms as Member, Ethics Panel: Reviewing Faculty and Staff Conflicts of Interest for Frederick County Board of Education, [Frederick County Public Schools](#), 115 East Church Street, Frederick, MD 21701-5449

2002 Member, Veterans Administration Research Protection Accreditation Standards Committee of the VA Human Research Protection Accreditation Program [VAHRPAP], NCQA, Washington, DC 20036.

2008 - 2011 External Oversight of Research Activities Involving Investigator and Institutional Conflict of Interest. Vanderbilt University, Nashville, TN 37232

Awards, Honors, and Membership in Honorary Societies:

1962-66 [NY State Regents College Scholarship](#)

1963 [Beta Beta Beta](#), (*Eta Upsilon Chapter, President 1965-66*) (Biology Honor Society)

1965 [Omicron Delta Kappa](#) (Leadership and Scholarship Honor Society)

1972 Mayor's Cup. [Overall Winner of the Inner Harbor Regatta](#), by William Donald Schaefer, Mayor of Baltimore MD.

19 May 1979 [Wagner College Alumni Achievement Award](#)

1980 Meritorious Service Medal, US Army (for Research and Administration)

1983 The Chapel of the Four Chaplains, [Legion of Honor Membership Award](#) (Civilian, Phila PA)

20 June 1985 [Letter Commendation](#), Ambassador David Anderson (Yugoslavia)

24 July 1985 Letter of Commendation, MG Garrison Rapmund

14 July 1989 ["A" Proficiency Designator](#), MOS 61U9A-8Z (*U.S. Army equivalent of Full Professor*)

1 October 1992 Army Commendation Medal (Human Use, Admin.)

1 March 1996 Army Commendation Medal (WPAFB impact award)

6 December 2002 [Order of Military Medical Merit](#) #5883

16 May 2003 [Doctor of Philosophy](#), *honoris causa* [Wagner College](#), Staten Island, NY

14 April 2007 [Legion of Merit](#) U.S. Army [Career Citation, signed by Surgeon General](#).

2 December 2007 Army Commendation Medal (College of American Pathologists Laboratory Reaccreditation with Commendation.)

9 September 2016 [Superior Civilian Service Award](#) (April 2007 - October 2016)

31 October 2016 [Distinguished Member of the US Army Medical Department Regiment](#)

Meritorious Listings:

Who's Who in Frontier Science and Technology - since 1983

American Men and Women of Science - since 1985

Who's Who in Science and Engineering - since 1989

Who's Who in Medicine and Healthcare - since 1996

Who's Who in the East - since 1997

Who's Who in America - since 1999

International Directory of Distinguished Leadership (6th ed.) American Biographical Institute, Inc. - since 1996

Dictionary of International Biography (33rd ed.) International Biographical Centre, Cambridge, England - since 2006

2006 International Professional of the Year, International Biographical Centre, Cambridge, England

Memberships in Professional and Scientific Societies:

National Societies:

1974- International Academy of Pathology

1976- American Association for Advancement of Science

1978- American Society for Investigative Pathology

1978- New York Academy of Sciences

1980- American Association of Immunologists

1985- Society for Mucosal Immunology (Charter Member)

1986- Associate Member The Hastings Institute

1986- Public Responsibility in Medicine and Research (PRIM&R)

1986- Applied Research Ethics National Association (ARENA)

1998-2000 [ARENA Council](#) - Regional Representative for Mid-Atlantic (D.C., DE, MD, NJ, PA, WV)

2000-2003 [ARENA Treasurer](#) - Elected 28 October 2000

Local Societies:

1974-80 Chesapeake Society for Electron Microscopy

1976- The Johns Hopkins Immunology Council

1976-80 Frederick County Chapter, American Cancer Society (Director 1976-80)

1986-1996 Frederick Kiwanis Club, (Vice President 1986-87, President 1988-89; Rejoined Kiwanis in 2016 after 20 yrs absence.

1984-89 Grace United Church of Christ, Frederick, Deacon 1986-89

Hobbies and Interests:

Dancing with my Daughter; Watching my Daughter Being Creative; [SCUBA Diving - Caribbean](#); [Hiking](#), [European Bicycle Touring](#) My interest in touring got started with cycling the "Bon Ton Roulet" 375 miles in the Finger Lakes NY in 2009; The CVCC Metric Century around Hagerstown; [Bike and Barge Holland](#); [and Four 'A's in Armenia](#); Photography; [My Miata!](#) My MINI Cooper; [Small Boat Sailing](#); Historic Preservation (Restored Houses built circa: [1790](#), [1870](#) & [1879](#)); All forms of [Artistic Expression](#),

including making a [Doll House](#) for Phoebe. | [Collect Pen Knives](#) | [Mad Scientist Answers](#) | [Yahoo.com Answers](#)

Author of Numerous Personal Web Pages since spring 1997:

#1[Home Page](#) | #2[Panama Canal Engineer](#) | #3[Lymphocyte Homing](#) | #4[Lymphocyte Locomotion](#) | #5[Lymphocyte Chemotaxis](#) | #6[Dendritic Cells](#) | #7[Mucosal and Peripheral Immunity](#) | #8[Immunology Lecture Notes](#) | #9[Aquehonga Boy Scout Camp 1957](#) | #10[France & Italy 1998](#) | #11[Spain & Portugal 1999](#) | #12[Wagner College Speech 2003](#) | #13[Maine Kayaking 2003](#) | #14[IRB Follies](#)

Editorial Functions:

1976- Reviewer, Laboratory Investigation, Journal of Infection and Immunity, American Review of Respiratory Diseases, American Journal of Anatomy, Journal of Immunology, Agents and Actions, Science, and Proceedings of the National Academy of Sciences

Grant Reviewer:

20 Jun 1982- VA Merit Reviewer

1 Aug 1991- Naval Medical Research and Development Command, Independent Research Reviewer

29 Jun-1 Jul 1992 NIAID/NIH Special Review Committee RFA AI-92-02: Enhancing Vaccine Immunogenicity

Bibliography:

Original Papers:

1. **Anderson, A. O.** and J. H. Yardley. 1972. Demonstration of Candida in blood smears. [New Engl. J. Med. 286:108-109.](#) [[Author's PDF](#)]
2. **Anderson, A. O.**, and N. D. Anderson. 1975. Studies on the structure and permeability of the microvasculature in normal rat lymph nodes. [Amer. J. Path. 80:387-418.](#) [[Author's PDF](#)]
3. Anderson, N. D., **A. O. Anderson**, and R. G. Wyllie. 1975. Microvascular changes in lymph nodes draining skin allografts. [Amer. J. Path. 81:131-160.](#) [[Author's PDF](#)]
4. Anderson, N. D., **A. O. Anderson**, and R. G. Wyllie. 1976. Specialized structure and metabolic activities of high endothelial venules in rat lymphatic tissues. [Immunology 31:455-473.](#) [[Author's PDF](#)]
5. **Anderson, A. O.** and N. D. Anderson. 1976. Lymphocyte emigration from high endothelial venules in rat lymph nodes. [Immunology 31:731-748.](#) [[Author's PDF](#)]
6. Bell, W. R., N. D. Anderson, **A. O. Anderson**, and R. G. Wyllie. 1977. Heparin-induced coagulopathy. [J. Lab. Clin. Med. 89:741-750.](#) [[Author's PDF](#)]
7. **Anderson, A. O.**, M. S. Ascher, and L. A. Andron. 1977. Adjuvant Properties in Human Dialyzable Leukocyte Extracts (DLE) Containing Transfer Factor, pp. 692-694. [In: Regulatory Mechanisms in Lymphocyte Culture Conference](#), Lucas, D. C. (ed.), Academic Press, New York. [[Author's PDF](#)]

8. **Anderson, A. O.**, N. D. Anderson, and J. D. White. 1979. Basic mechanisms of lymphocyte recirculation in Lewis rats. [Adv. Exp. Med. Biol. 114:73-83](#) [[Author's PDF](#)]
9. **Anderson, A. O.** and J. A. Reynolds. 1979. Adjuvant effects of the lipid amine CP-20, 961 (on lymphoid cell traffic and anti-viral immunity.) [J. Reticuloendothelial Soc. 26:667-680](#). [[Author's PDF](#)]
10. Levy, H. B., E. Lvovsky, F. Riley, D. Harrington, **A. O. Anderson**, J. Moe, Hilfenhaus, and E. Stephen. 1980. Immune modulating effects of poly ICLC. [Ann. N. Y. Acad. Sci. 350:33-41](#). [[Author's PDF](#)]
11. Anderson, N. D. and **A. O. Anderson**. 1980. Lymphocytes, Chapter 11, pp. 155-197. *In*: Fundamentals of Clinical Hematology, Spivak (ed.), Harper-Row Publishers.
12. **Anderson, A. O.**, J. T. Warren, and D. L. Gasser. 1981. Presence of lymphoid dendritic cells in thoracic duct lymph from Lewis rats. [Transplantation Proc. 13:1460-1568](#). [[Author's PDF](#)]
13. **Anderson, A. O.** and N. D. Anderson. 1981. Structure and Physiology of the Lymphatic System. *In*: Cellular Functions in Immunity and Inflammation, Chapter 2, pp. 29-72, Oppenheim, J. H. J., Rosenstreich, D. A., and Potter M. (eds.), Elsevier-North Holland Publishers, NY. [[Author's PDF](#)]
14. Naji, A., W. K. Silvers, D. Bellgrau, and **A. O. Anderson**. 1981. Prevention of diabetes in BB rats by bone marrow transplantation. [Ann. Surg. 194:328-338](#). [[Author's PDF](#)]
15. Anderson, N. D. and **A. O. Anderson**. 1981. Structure and Function of Lymphatic Tissue. *In*: Spittel's *Clinical Medicine*, pp. 1-47, Harper-Row Publishers. [[Author's PDF](#)]
16. **Anderson, A. O.** 1982. Ed Review of "Cell Death in Biology and Pathology," Bowen, I. D. and R. A. Lockshin. Chapman & Hall Publ., New York, NY. Quarterly Rev. Biology [57:457-458](#). [[Author's PDF](#)]
17. **Anderson, A. O.** and J. T. Warren. 1982. Effect of immunological adjuvants on the appearance of monocyte and dendritic cell precursors in rat thoracic duct lymph. [Adv. Exp. Med. Biol. 149:791-799](#). [[Author's PDF](#)]
18. Naji, A., D. Bellgrau, **A. O. Anderson**, W. K. Silvers, and C. F. Barker. 1982. Transplantation of islets and bone marrow cells to animals with immune insulinitis. [Diabetes 31:84-91](#). [[Author's PDF](#)]
19. **Anderson, A. O.**, N. D. Anderson, and J. D. White. 1982. Lymphocyte Locomotion, Lymphatic Tissues, and Lymphocyte Circulation in the Rat. *In*: Animal Models of Immunological Processes, pp. 25-95, Hay, J. B. (ed.), Academic Press (London). [[Author's PDF](#)]
20. **Anderson, A. O.**, A. Plotner, and D. H. Rubin. 1983. Effect of enteric priming with reovirus and lipoidal amine adjuvant on mucosal lymphatic tissue and anti-viral IgA secretion. *Ann. N. Y. Acad. Sci.* [409:769-775](#). [[Author's PDF](#)]
21. Rubin, D. H. **A. O. Anderson**, and D. Lucis. 1983. Potentiation of the secretory IgA response by oral and enteric administration of CP20961. *Ann. N. Y. Acad. Sci.* [409:866-870](#). [[Author's PDF](#)]

22. Najj, A., W. K. Silvers, H. Kimura, D. Bellgrau, **A. O. Anderson**, and C. F. Barker. 1983. Correction of the peripheral T-cell functional and microenvironmental defects in BB rats by bone marrow transplantation. [Transplantation Proc. 15:1424-1426](#). [\[Author's PDF\]](#)
23. Najj, A., W. K. Silvers, H. Kimura, **A. O. Anderson**, and C. F. Barker. 1983. Influence of islet and bone marrow transplantation on the diabetes and immunodeficiency of BB rats. [Metabolism 32:62-68](#).
24. Jahrling, P. B., R. A. Hesse, **A. O. Anderson**, and D. J. Gangemi. 1983. Oposonization of alphaviruses in hamsters. [J. Med. Virol. 12:1-16](#). [\[Author's PDF\]](#)
25. Anderson, N. D. and **A. O. Anderson**. 1984. Lymphocytes. In: Fundamentals of Clinical Hematology, Chapter II, pp. 175-200, Spivak (ed.), Second Edition, Harper-Row Publishers.
26. Kornstein, M. J., J. S. J. Brooks, **A. O. Anderson**, R. P. Lisak, A. I. Levenson, and B. Zweiman. 1984. The Immunohistology of the Thymus in Myasthenia Gravis. [Am. J. Path. 117:184-194](#).
27. Rubin, D. H., M. J. Kornstein, and **A. O. Anderson**. 1985. Reovirus serotype 1 intestinal infection: A novel replicative cycle with ileal disease. [J. Virol. 53:391-398](#). [\[Author's PDF\]](#)
28. Potter, M., J. S. Wax, and **A. O. Anderson** and Nordan, R. P. 1985. Inhibition of plasmacytoma development in BALB/C mice by indomethacin. [J. Exp. Med. 161:996-1012](#). [\[Author's PDF\]](#)
29. **Anderson, A. O.** 1985. Multiple effects of immunological adjuvants on lymphatic microenvironments. International J. Immunotherapy 1:185-195. [\[Author's PDF\]](#)
30. **Anderson, A. O.**, T. T. McDonald, and D. H. Rubin. 1985. Effect of orally administered avidine on enteric antigen uptake and mucosal immunity. International J. Immunotherapy. 1:107-115. [\[Author's PDF\]](#)
31. **Anderson, A. O.** and D. H. Rubin. 1985. Effect of avidine on enteric antigen uptake and mucosal immunity to reovirus (1/Lang). [Adv. Exp. Med. Biol. 186:579-590](#). [\[Author's PDF\]](#)
32. Kornstein, M. J., J. J. Brooks, **A. O. Anderson**, A. E. Levinson, R. P. Lisak, and B. Zweiman. 1985. Immunohistology of the thymus in Myasthenia Gravis. [Adv. Exp. Med. Biol. 186:929-936](#). [\[Author's PDF\]](#)
33. **Anderson, A. O.**, J. S. Wax, and M. Potter. 1985. Differences in the peritoneal response to Pristane in Balb/c An Pt and Balb/c J mice. [Curr. Topics in Micro and Immunol. 122:242-253](#). [\[Author's PDF\]](#)
34. Rubin, D. H., M. A. Eaton, and **A. O. Anderson**. 1986. Reovirus infection in adult mice: The virus hemagglutinin determines the site of intestinal disease. [Microb. Pathogen. 1:79-87](#). [\[Author's PDF\]](#)
35. **Anderson, A. O.**, O. L. Wood, A. D. King, and E. H. Stephenson. 1987. Studies on anti-viral mucosal immunity using the lipoidal amine adjuvant avidine. [Adv. Exp. Med. Biol. 216B:1781-1790](#). [\[Author's PDF\]](#)

36. **Anderson, A. O.** and J. M. Ward. 1988. Endocytic stripping of ligands from lymphocytes in high endothelial venules (HEV): Implications for immunomodulation vs. viral pathogenesis. [Adv. Exp. Med. Biol. 237:525-531](#), HISTOPHYSIOLOGY OF THE IMMUNE SYSTEM, Plenum Publ. Co., NY. [\[Author's PDF\]](#)
37. Pitt, M. L. M. and **A. O. Anderson**. 1988. Direct transdiaphragmatic traffic of peritoneal macrophages to the lung. [Adv. Exp. Med. Biol. 237:627-632](#), HISTOPHYSIOLOGY OF THE IMMUNE SYSTEM, Plenum Publ Co., NY. [\[Author's PDF\]](#)
38. **Anderson, A. O.**, L. F. Snyder, M. L. M. Pitt, and O. L. Wood. 1988. Mucosal priming alters pathogenesis of Rift Valley fever. [Adv. Exp. Med. Biol. 237:727-733](#), HISTOPHYSIOLOGY OF THE IMMUNE SYSTEM, Plenum Publ. Co. N. [\[Author's PDF\]](#)
39. Larsen, C. G., **A. O. Anderson**, E. Appella, J. J. Oppenheim, and K. Matsushima. 1989. The Neutrophil-Activating Protein (NAP-1) is also chemotactic for T lymphocytes. [Science 243:1464-1466](#). [\[Author's PDF\]](#)
40. Oppenheim, J. J., C. G. Larsen, A. K. Samanta, **A. O. Anderson**, and K. Matsushima. 1989. Biological and biochemical properties of a chemotactic cytokine. *Advances in Science and Technology (Moscow)* [26:43-51](#).
41. Larsen, C. G. and **A. O. Anderson**, J.J. Oppenheim, and K. Matsushima. 1989. Production of Interleukin-8 human dermal fibroblasts and keratinocytes in response to IL-1 and TNF. [Immunology 68:31-36](#).[\[Author's PDF\]](#)
42. Matsushima, K., C. G. Larsen, A. K. Samanta, N. Mukaida, **A. O. Anderson**, and J. J. Oppenheim. 1990. An interleukin-1/tumor necrosis factor inducible inflammatory cytokine, interleukin-8. *In: Tumor Necrosis Factor: Structure, Mechanism of Action, Role in Disease and Therapy*. Bonavida, B. and G. Granger (eds.), pp 140-145 Basel, Switzerland. [\[Author's PDF\]](#)
43. **Anderson, A. O.** 1990. "Structure and organization of the lymphatic system." *In: Immunophysiology. The role of cells and cytokines in immunity and inflammation*. Oppenheim, J. J. and E. Shevach (eds.), pp 14-45 Oxford University Press, NY [\[Author's PDF\]](#)
44. **Anderson, A. O.**, M. L. M. Pitt, S. Lavu, J. D. Cooley, and M. Vahey. 1990. C3H mouse model of genetic predisposition to vaccine-induced allergy. *In: Advances in Mucosal Immunology*. T. T. MacDonald and S. J. Challacombe (eds.), Kluwer Academic Publishers, Lancaster, England. pp 390-393.
45. Pitt, M. L. M., M. Vahey, J. D. Cooley, and **A. O. Anderson**. 1990. Production of alpha heavy chain mRNA in mucosal and lymphoid tissue of various strains of mice. *In: Advances in Mucosal Immunology*. T. T. MacDonald and S. J. Challacombe (eds.), Kluwer Academic Publishers, Lancaster, England. pp 306-307.
46. Pitt, M. L. M. and **A. O. Anderson**. 1990. Direct transdiaphragmatic traffic of peritoneal macrophages to lung-associated lymphatic tissue. *In: Advances in Mucosal Immunology*. T. T. MacDonald and S. J. Challacombe (eds.), Kluwer Academic Publishers, Lancaster, England. pp 232-235.
47. Zachariae, C. O. C., **A. O. Anderson**, H. L. Thompson, E. Appella, A. Mantovani, J.J. Oppenheim, and K. Matsushima. 1990. Properties of monocyte chemotactic and

activating factor (MCAF) purified from a human fibrosarcoma cell line. [J. Exp. Med. 171:2177-2182.](#) [\[Author's PDF\]](#)

48. Zachariae, C.O.C., H.L. Thompson, **A.O. Anderson**, A. Mantovani, J.J. Oppenheim, and K. Matsushima. The Potential Role of Monocyte Chemotactic and Activating Factor (MCAF) in Tumor Growth. *In: Molecular and Cellular Biology of Cytokines.* Wiley-Liss, Inc., 1990 pp 369-374. [\[Author's PDF\]](#)

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50. Degrassi, A., D.M. Hilbert, **A.O. Anderson**, M. Potter, and H.G. Coon. 1990. *In vitro* culture of a primary plasmacytoma that has retained its dependence on pristane conditioned microenvironment for growth. [Curr. Topics in Micro. and Immunol. 166: 71-74.](#) [\[Author's PDF\]](#)

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89. Steele, K.E., **A.O. Anderson**, and M. Mohamadzadeh. 2009. Fibroblastic Reticular Cells and Their Role in Viral Hemorrhagic Fevers. [Expert Review of Anti-infective Therapy. v7\(4\): 423-435](#). [\[Author's PDF\]](#)
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92. Sobocinski, G.P., K. Toy, W.F. Bobrowski, S. Shaw, **A.O. Anderson**, and E.P. Kaldjian. 2010. Ultrastructural localization of extracellular matrix proteins of the lymph node cortex: evidence supporting the reticular network as a pathway for lymphocyte migration lymphocyte migration, *BioMed Central Immunology* ([BMC Immunology 2010, 11:42 doi:10.1186/1471-2172-11-42](#)).
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Lecture Topics:

Microvasculature in Immune Responses.

Structure and Function of the Lymphatic System.

[Lymphocyte Locomotion & Chemotaxis.](#)

High Endothelial Venules, Lymphocyte Homing and Traffic.

In Vivo Studies of Chemokines.

The Fibroblastic Reticular Cell Conduit and transmission of Chemokines, Antigens and Cell Signalling in "Lymphatic Tissues".

Critical Issues in Immunizing for Respiratory Mucosal Immunity.

Antiviral Mucosal Immunity.

Effects of immunological adjuvants on quality and quantity of immune responses.

Adjuvant Activity and Other effects of Cholera Toxin and its B-subunit.

Project Whitecoat: Early Development of Ethical Practices in Research Involving Human Subjects at Fort Detrick

A Selection of Invited Lectures and Seminars

28 October 1982. **Invited Lecture:** Role of Angiogenesis in Immunity I.N.S.E.R.M. Meeting on Hemostasis Inflammation and Immunity. Domaine Seillac, France.

29 October 1982. **Invited Lecture:** Role of Chemotaxis in Lymphocyte Recirculation. Institut D'Embryologie due Centre National de la Recherche Scientifique et du College de France, Nogent Sur Marne, France.

16 April 1984. **Invited Lecture:** Multiple Effects of Immunological Adjuvants on Lymphatic Microenvironments. First International Conference on Inflammation and Immunomodulators, Venice, Italy.

18 April 1984. **Invited Lecture:** Effect of Orally Administered Avidine on Enteric Antigen Uptake and Mucosal Immunity. First International Conference on Inflammation and Immunomodulators, Venice, Italy.

14-17 August 1984. Immunohistology of the Thymus in Myasthenia Gravis. 8th International Conference on Lymphatic Tissues and Germinal Centers in Immune Reactions, Cambridge, UK.

18 June 1985. **Invited Lecture:** Angiogenic Microenvironments and Autoimmunity. Institute Colloquium: The Kennedy Institute of Rheumatology, London, England.

11 October 1985. Role of Angiogenesis in Induction of Peritoneal Plasmacytomas in BALB/c Mice, WRAIR, Washington, DC.

2 July 1986. **Invited Lecture:** Effect of Mucosal vs. Parenteral Priming with Inactivated RVF Vaccine with ZH-501. International Congress of Mucosal Immunity, Niagra Falls, NY.

30 January 1987. **Invited Lecture:** Role of Lymphocyte Recirculation in Mucosal Immunity and Inflammation, NC State Veterinary School, Raleigh, NC.

11 February 1987. **Invited Lecture:** *In Vitro* Studies of VEE Neurotropism. Biology Graduate Group, University of Pennsylvania, Philadelphia, PA.

19 February 1987. **Invited Lecture:** Antiviral Mucosal Immunity. The Baker Institute and Cornell University, Ithaca, NY.

26 May 1987. **Invited Lecture:** Antiviral Respiratory and Mucosal Immunity. Immunology Seminar, Department of Pathology, Case Western Reserve School of Medicine, Cleveland, OH.

11 August 1987. Endocytic Stripping of Ligands from Lymphocytes in High Endothelial Venules (HEV): Implications for Immunodulation vs. Viral Pathogenesis. 9th International Conference on Lymphatic Tissues and Germinal Centers in Immune Reactions, Oslo, Norway.

12 August 1987. Direct Transdiaphragmatic Traffic of Peritoneal Macrophages to the Lung with M. L. M. Pitt. 9th International Conference on Lymphatic Tissues and Germinal Centers in Immune Reactions, Oslo, Norway.

5-9 October 1987. **Invited Lecture:** Mucosal Priming Alters Pathogenesis of Rift Valley Fever. Presented at: The Centenary Symposium of the Institute Pasteur, Molecular Biology and Infectious Diseases, Paris, France.

8 April 1988. **Invited Lecture:** Cell Biology of Lymphocyte Recirculation, Implications for AIDS. Lab of Microbiology and Immunology, NIH, Bethesda, MD.

1-5 May 1988. Adjuvant Effects on Peritoneal Macrophage Traffic to the Lung, with M. L. M. Pitt. Federation of American Societies for Experimental Biology, Las Vegas, Nevada. The FASEB Journal 2:A1259.

13 May 1988. Transdiaphragmatic Traffic of Peritoneal Mononuclear Cells to Lung Interstitium and Bronchus Associated Lymphatic Tissues, with M. L. M. Pitt. 18th Annual Joint Immunobiology Meeting, University of Virginia, University of Pennsylvania, Johns Hopkins, and University of Maryland, Cliffside Inn, Harpers Ferry, WVa.

14 May 1988. Cross Regulation Between Mucosal and Peripheral Immunity. 18th Annual Joint Immunobiology Meeting, University of Virginia, University of Pennsylvania, Johns Hopkins, and University of Maryland, Cliffside Inn, Harpers Ferry, WV.

12-16 June 1988. **Invited Lecture:** Oral Infectivity of Rift Valley Fever Virus (RVFV) in A/J Mice, with M. L. M. Pitt. 11th International Convocation on Immunology. State University of New York, University of Buffalo, The Ernest Witebsky Center for Immunology. Immunology and Immunopathology of the Alimentary Canal.

30 June 1988. Macrophage Traffic and the Peritoneal Microenvironment, with M. L. M. Pitt. Department of Genetics, Stanford University School of Medicine, Stanford, CA

94305.

24 October 1988. Cross Regulation Between Parenteral and Mucosal Priming for Respiratory Immunity to Rift Valley fever Virus. First Army-Navy Mucosal Immunity Seminary, NMRI, Bethesda, MD.

22 February 1989. **Invited Lecture: "Role of Chemotaxis in Lymphocyte Homing"**, Immunol 508 (Graduate group seminar), University of Pennsylvania, Philadelphia, PA.

22 March 1989. Phenotype of a Migrant Population of Phagocytic Peritoneal Mononuclear Cells in the Pleural Cavity. 73rd Annual Meeting of the Federation of American Societies for Experimental Biology, New Orleans, LA.

23 March 1989. Role of Lymphocyte Recirculation in Aids, A Hypothesis. 73rd Annual Meeting of the Federation of American Societies for Experimental Biology, New Orleans, LA.

23 March 1989. Production of Alpha Heavy Chain Messenger RNA in Mucosal and Lymphoid Tissue of C3H/HeN and C3H/HeJ Mice. 73rd Annual Meeting of the Federation of American Societies for Experimental Biology, New Orleans, LA.

19 March 1989. Expression of Recombinant Neutrophil Chemotactic Factor NAP-1 and Determination of its Genomic DNA Structure. 73rd Annual Meeting of the Federation of American Societies of Experimental Biology, New Orleans, LA.

4 May 1989. Studies of the Receptor for VEE Neurotropism. Virology Seminar, USAMRIID, Fort Detrick, Frederick, MD.

25 July 1989. **Invited Lecture:** Production of Alpha Heavy Chain mRNA in Mucosal and Lymphoid Tissue of Various Strains of Mice. International Congress of Mucosal Immunology, Kensington Town Hall, London, England.

26 July 1989. **Invited Lecture:** Direct Transdiaphragmatic Traffic of Peritoneal Macrophages to Lung-Associated Lymphatic Tissue. International Congress of Mucosal Immunology, Kensington Town Hall, London, England.

27 July 1989. **Invited Lecture:** Protective Respiratory Immunity to a Multitropic Virus, Rift Valley fever virus. International Congress of Mucosal Immunity of the Respiratory Tract, Kurhotel, Bad Lippspringe, Federal Republic of Germany(FRG).

30 July 1989. **Invited Lecture:** [Role of Interleukin 8 \(IL-8\) in Leukocyte Homing and Emigration.](#) 7th International Congress of Immunology, Berlin, (FRG).

2 August 1989. The Importance of a Subset of Migrant Peritoneal Macrophages in Respiratory Mucosal and Systemic Priming. 7th International Congress of Immunology, Berlin, FRG.

15 September 1989. **Invited Lecture:** Identification of a 17 and/or 33 Kilodalton "Receptor" for Venezuelan Equine Encephalitis Virus in Normal Mouse Brain Protein. Neurovirology Seminar, The Johns Hopkins University School of Medicine, Baltimore, MD.

10 December 1989. Interleukin 1 and Tumor Necrosis Factor Inducible Chemotactic Cytokine, Interleukin 8. Second International Workshop on Cytokines, Hilton Head Island, SC.

11 May 1990. In Vivo Cell Chemotaxis mediated by cell-selective cytokines. The Johns Hopkins University Immunology Council Joint Immunobiology Retreat '90 Berkeley Springs, W.Va.

03 July 1990. Tissue-specific Expression of Epsilon and Alpha mRNA in Allergy-Prone C3H Mice, 10th International Conference on Lymphatic Tissues and Germinal Centers in Immune Reactions, Compiègne, France.

29 July 1990. **Role of Interleukin 8 (IL-8) in Leukocyte Homing and Emigration**, Second Gordon Research Conference on Vascular Cell Biology, Kimball Union Academy, Meriden, NH.

18 February 1991. Lymphocyte Recirculation, Migration Chemotaxis and Site Specific Egress, University of Pennsylvania, Immunology 508. Philadelphia, PA.

19 February 1991. Anatomy of the Lymphoid System; Architecture of Primary and Secondary Lymphatic Tissues; Lymphocyte Recirculation, Migration, and Homing. BIOL #404 - Immunology, University of Pennsylvania, Philadelphia, PA.

4 September 1991. New Developments in Immunization Strategies Scientific Program. Critical issues in priming for mucosal and systemic immunity. USAMRIID International Symposium, Frederick, MD.

26 September 1991. [Interkrines Control Cell/Site Specificity of Leukocyte Infiltrates](#). European Workshop on Biology and Molecular Mechanisms of Lymphocyte Traffic, Hamburg, Germany.

20 October 1992. **Invited Lecture:** Antiviral Respiratory Mucosal Immunity, USUHS, Department of Microbiology Seminar.

9 July 1993. The appendix functions as a mammalian bursal equivalent in the developing rabbit. 11th Germinal Center Conference, Liege, Belgium. (presented by P.D. Weinstein)

26 April 1994. Depletion of CD8+ Intraepithelial Lymphocytes by Cholera Toxin and its B-subunit. (Presented by B. Lohrig) FASEB, Anaheim CA.

27 April 1994. Production of a highly diverse primary antibody repertoire occurs in rabbit appendix germinal centers by gene conversion and somatic hypermutation. (presented by P.D. Weinstein) FASEB, Anaheim CA.

9 December 1994. Depletion of CD8+ Intraepithelial Lymphocytes by Cholera Toxin. Vaccines: 21st Century, Phila PA

7 May 1995. Normal Human Sweat Contains Interleukin-8. 23rd Annual Mid-Atlantic Immunobiology Conference, Harpers Ferry, WVa

22 May 1995 **Invited Lecture:** "Immunoprophylaxis in Meals Ready to Eat", National Academy of Sciences, Institute of Medicine, Committee on Military Nutrition Research Meeting on *Emerging Technologies for Nutrition Research, Potential for Assessing Military Performance Capability*, Washington, D.C., 22-23 May 1995.

1-5 July 1996. Stromal Surprises Underlying Recirculation: The Role of the Lymph Node Reticular Network. 12th International Conference on Lymphoid Tissues and Germinal Centers in Immune Reactions. Paul Ehrlich Conference, EFIS, Graz, Austria (Eric Kaljian attended).

10 August 1996. **Invited Lecture:** Autoimmunity and Lymphatic Tissue Microenvironments. Workshop on Long-Term Medical Effects of Multiple Immunizations, Lansdowne Resort, Va., 8-11 August 1996.

10 September 1996. **Invited Lecture:** Anatomy of an Immune Response. Seminar for Department of Molecular Immunology and Molecular Medicine, Roswell Park Cancer Institute, Buffalo N.Y.

6 November 1996. **Invited Lecture:** Cellular Trafficking in the Immune System, Minisymposium in Davidge Hall with Dr. Steven Shaw, Dr. Philip Murphy, Dr. Eugene Butcher and Dr. Arthur O. Anderson, Sponsored by: University of Maryland Cancer Center, Department of Microbiology and Immunology and University of Maryland School of Medicine, Baltimore MD.

28 January 1997. Lymphatic Tissues and Lymphocyte Trafficking in Immune Responses. FAES, Immu 522M, Lectures on the Cell Biology of Immunity. NIH, Bethesda MD.

10 July 1997. **Invited Lecture:** Inducing Mucosal and Peripheral Immunity. Smith-Kline Beecham Symposium on Cellular Immunology, King of Prussia, PA

13 November 1997. The Immunological Significance of Fibroblastic Reticular Cells and Ebola Pathogenesis, Diagnostics Systems Division Seminar, USAMRIID, Frederick MD.

24 November 1997. **Invited Lecture:** Anatomy of an Immune Response, Department of Microbiology and Immunology Seminar, Uniformed Services University of Health Sciences, Bethesda MD.

9 January 1998. Mucosal and Peripheral Immunity. Department of Pathology Seminar Series, USUHS, Bethesda MD.

11 February 1998. Structure, Function, Cell Trafficking in Lymphatic Tissues. BIOL #404 - Immunology, Department of Biology U. Pennsylvania, Philadelphia PA.

18 February 1998. **Invited Lecture:** A day in the life of a lymphocyte: An Immuno-Photojournalist's Point of View. Frederick Faculty Seminar Series, FCRDC, Fort Detrick, Frederick MD.

3 March 1998. **Invited Lecture:** Cell Trafficking and the Organization of the Immune System. Immunology 522M, Foundation for Advanced Education in the Sciences, NIH, Bethesda MD.

29 July 1998. Mucosal Immunity: Critical Defense Against Invading Pathogens. FCRDC/Ft. Detrick Summer Student Seminar Series, Frederick MD.

26 September 1998. Contributions of "[Operation Whitecoat](#)" to Ethics and Medicine during the "Cold War." Reunion of Project Whitecoat Volunteers 25 Years after the end of the program. Seventh Day Adventist Church, Frederick, MD ([NPR Report](#))

9 February 1999. Cell Trafficking and the Organization of the Immune System. Immunology 522M, Foundation for Advanced Education in the Sciences, NIH, Bethesda MD.

24 June 1999. **Invited Lecture:** [Ethical Contributions and Dilemmas of Operation Whitecoat and the Special Immunizations Program.](#) (see page 6) DOE Meeting,

"Workers as Research Subjects: A Vulnerable Population?" National Library of Medicine, Bethesda, MD.

29 October 1999. [A Brief History of the Army's Contributions to Ethical Standards for Research Involving Human Subjects](#), The Office of the Surgeon General, Human Subjects Research Review Board (HSRRB) Off-Site Meeting, Natcher Auditorium, NIH, Bethesda MD

5 December 1999. The Army's Contributions to Ethical Standards for Research Involving Human Subjects, Applied Research Ethics National Association (ARENA) Meeting, DoD/VA Breakout Session, Boston MA.

16 February 2000. Structure, Function, Cell Trafficking in Lymphatic Tissues. BIOL #404 - Immunology (Prof. John Cebra), Department of Biology U. Pennsylvania, Philadelphia PA.

13 March 2000. **Invited Testimony:** Research Subject Health Data Security at USAMRIID, IOM Workshop on Role of the Institutional Review Boards in [Protecting Data Privacy in Health Services Research](#), Institute of Medicine Division of Health Care Services, Cecil and Ida Green Building, 2001 Wisconsin Avenue, NW

20 & 26 August 2000. **TV Appearance:** Segment on "Operation Whitecoat" in: [Suicide Missions - Human Guinea Pigs](#), **The A&E History Channel Cable TV network, NY & CA 8pm ET/PT.** (credits include: provided archival material and interview on camera)

31 October 2000. **Invited Lecture:** Ethical Research in a Military Context, Applied Research Ethics National Association (ARENA) Meeting, DoD Workshop, San Diego CA.

18 November 2000. Recognizing Non-Combat Heroic Contributions of SDA Veterans, Seventh Day Adventist Church, Frederick MD.

18 January 2001. "Background Perspective on 'Special Procedures' and the 'Special Immunizations Program' at [Fort Detrick 1943-2001](#)", Epidemiology Conference to Determine the Feasibility and Design of a Study on the Long-Term Effects of Anthrax Vaccine, U.S. Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD.

25 January 2001. **Invited Lecture:** Dissemination of Ebola Virus to Blood on a Novel [Conduit](#) That Serves the Immune System, UAB Pathology Residents, 8:00-9:00 am West Pavilion Conference Room B, University of Alabama, Birmingham AL.

25 January 2001. **Invited Lecture:** Cellular and Molecular Anatomy of an Immune Response in [Lymph Nodes](#), Advances in Cellular and Molecular Pathology, 12:00-1:00 pm West Pavilion Conference Room E, University of Alabama, Birmingham AL.

8 May 2001. **Invited Lecture:** The Army's Role in Medical Ethics History, [13th Annual Tri-Service Clinical Investigation Postgraduate Short Course](#), 7-9 May 2001, San Antonio, Texas.

12 September 2001. Evolution of Medical Ethics in the US, Congressionally Directed Medical Research Programs, IRB Education Seminar Series, Building 1077, Fort Detrick, MD 21702-5024

20 November 2001. Co-Chair, Breakout session #5 - Individual & Community Consent, HSRRB Off-Site Meeting, The Ethics of DoD International Research, 19-20 November 2001, Frederick MD 21701.

2 December 2001. **Invited Lecture:** Research in the Face of Terrorism: Do Our Ethics Change in a Time of National Crisis?, Workshop A19, The 15th Annual Meeting of the Applied Research Ethics National Association [ARENA], Boston Massachusetts.

21 December 2001. **TV appearance:** Brave Volunteers Human Guinea Pigs Paved Way for U.S. Biological Warfare with Judy Muller, ABC News World News Tonight.

10 January 2002. **Participant:** National Academy of Sciences (NAS), Institute of Medicine (IOM) Teleconference on Human Research Participant Protection Programs (HRPPP).

27 January 2002. **TV Interview:** "Secret Exposure" (Operation Whitecoat), Fox5 TV Washington DC.

25 February 2002. Getting to Know your Institutional Review Board [IRB], OPDRA-QAU GCP Training, USAMRIID, Fort Detrick MD.

28 February 2002. **Invited Lecture:** Panel I: Biological Weapons and Response. Symposium on Bioethics and Bioterrorism. National Press Club, Washington DC. as reported in [Washington FAX](#) and by Garland in [J.Philosophy.Science.and,Law](#).

16 May 2002. 2002-2. **General Opening Address:** "Evolution of Ethical Standards for Research Involving Human Subjects in the U.S.", National Association of IRB Managers, Atlanta, Georgia.

16 May 2002. 2002-13. "Managing the Meeting: Causes and Effects of Increased Workload", National Association of IRB Managers, Atlanta, Georgia.

7 June 2002. Online Meeting, Veterans Administration Research Protection Accreditation Standards Committee of the VA Human Research Protection Accreditation Program [VAHRPAP], NCQA, Washington, DC 20036.

5 September 2002. PANEL TWO: [RIID Human Subjects Protection Program Best Practices](#), HSRRB Off-Site Meeting 5-6 September 2002, Fort Detrick Holiday Inn, Frederick MD 21702.

23 October 2002. ["Responding to Bioterror: Ethical Dichotomies"](#). National Defense and Human Subject Protections Conference, Friends Research Insititute, Mayflower Hotel, Washington DC 20036.

31 October 2002. "DoD and Past IND Problems: Historical Perspective". 2002 [DoD Preparedness Conference, 29 October - 1 November 2002](#), Double Tree Hotel Crystal City, Arlington VA 22202.

18 November 2002. "Agency Update: Department of Defense (didactic) (Regulatory Track II)" Public Responsibility In Medicine and Research PRIM&R, 17-19 November 2002, Town and Country Resort and Convention Center, San Diego CA.

19 November 2002. "Ethical Issues in Bioterrorism Research (didactic) (Research Hot Spots Track)" Public Responsibility In Medicine and Research PRIM&R, 17-19 November 2002, Town and Country Resort and Convention Center, San Diego CA.

6 January 2003. "Human Subjects Protection in Research" Introduction to the FDA's Good Clinical Practices (GCP) Training Course, USAMRIID, Fort Detrick MD 21702.

5 March 2003. Participant, Advanced Topics on Medical Defense Against Biological and Chemical Agents. 3. Vaccines Against Biological Warfare Agents, course No. 03.VABWA.A, Live Satellite TV Broadcast.

16 May 2003. **Commencement Address:** and, Doctorate [Acceptance](#), Doctor of Philosophy, *honoris causa*, Wagner College, Staten Island, NY

22 August 2003. [Human Subjects Protection at Detrick: BioWarfare to BioDefense](#). U.S. Army Medical Research and Materiel Command RCQ Off-Site Meeting 22-23 Aug 2003, Fort Detrick Holiday Inn, Frederick MD 21702.

24 September 2003. **Invited Lecture:** [Human Subjects Protection In National Biodefense Research](#): *Ethical Dilemmas and Dichotomies Developing in Relationship To Evolving Regulations from Federal Agencies and Oversight Commissions*. "Today's Research, Tomorrow's Issues" A National Human Subjects Protections Conference Jointly Sponsored by UCSF, FRI, OHRP, FDA, Dept VA, and Charles R. Drew University of Medicine and Science. San Francisco, CA.

5 November 2003. **Invited Lecture:** [Ethical Dilemmas and Dichotomies in National Biodefense Research](#). Biodefense Seminar Series. *BIOD 702* Special Topics in Biodefense Seminar, 7:30 pm. George Mason University, 10900 University Blvd. MS 4E3 Manassas, Virginia 20110

17 November 2003. **Invited Lecture:** [A Day in the Life of a Lymphocyte: An Immuno-Photojournalist's Point of View](#). Academic and Cultural Enrichment (ACE) lecture series. 4:30 pm. Mergerle Hall, Wagner College, Staten Island NY

4 December 2003. Chair: Panel Discussion and Question and Answer Session. [Essentials for Conducting Bioterrorism Research](#). PRIM&R Educational Workshop. Marriott Wardman Park Hotel, Washington DC

23 April 2004. **Moderator:** Panel Discussion on ["Bioterrorism: Changing Priorities in Medical Training and Research"](#) THE FOURTH ANNUAL MEDICAL RESEARCH SUMMIT: *The Leading Forum on the Law, Regulation and Ethics of Medical Research in the United States*. April 21 - 23, 2004. Baltimore Waterfront Marriott Baltimore, MD

19 May 2004. ["Human Subject Protections: Biowarfare to Bioterrorism"](#). Monthly GCP Lecture, Quality Assurance Regulatory Compliance Office USAMRIID

15 July - 15 October 2004. [Operation Whitecoat 1954-73: Ethical Use of Human Subjects in Infectious Disease Research](#). Poster Exhibit for the Infectious Disease History Display at the AMEDD Center and School Museum, Fort Sam Houston, San Antonio Texas.

28 October 2004. ["Bioterrorism: Changing Priorities in Medical Training and Research"](#) Essential Advice for Conducting Biodefense Research: *Challenges and Triumphs of Multi-Institutional Partnerships*. Pre-Meeting Workshop of The PRIM&R Annual IRB Conference, San Diego California.

29 October 2004. "IRB Review of Bioterrorism Research" Didactic Session B10 of the PRIM&R Annual IRB Conference, San Diego California.

13 November 2004. **Invited Lecture:** ["Historical Perspective: Ethical Dilemmas in Biodefense Research."](#) Panel III, Balancing Security Concerns While Protecting Human Subjects Post 9/11. Partnerships in Human Subject Protections National Conference [UMDNJ, FDA, OHRP, VA], Newark New Jersey

13 January 2005. **Invited Lecture:** ["Dendritic Cells and Lymphocytes in the Lymph Node: An Immunophotojournalist's POV"](#) Laboratory Seminar: Ronald Germain Laboratory. NIAID, NIH Bethesda MD

28 January 2005. ["Biowarfare to Biodefense: Operation Whitecoat & USAMRIID History"](#). Dalrymple Conference Room, USAMRIID, Frederick MD.

1 March 2005. **Invited Lecture:** ["The Lymph Node and How It Works."](#) Laboratory Seminar: Jonathan Yewdell Laboratory. NIAID, NIH Bethesda MD

18 April 2005. "Human Subjects Protection in Research" Introduction to the FDA's Good Clinical Practices (GCP) Training Course, USAMRIID, Fort Detrick MD 21702.

12 September 2005. **Invited Lecture:** ["Biowarfare to Biodefense: Operation Whitecoat & USAMRIID History"](#). NIH BioEthics Interest Group. 3 - 5 pm, Natcher Auditorium, NIH, Bethesda MD.

8-9 November 2005. "Diagnostic Services for Biocontainment Patient Care." [Biocontainment Unit Consensus Conference](#), U. Nebraska Medical Center, Omaha, NE.

18 January 2006. **Invited Lecture:** ["Historical Perspective: Ethical Dilemmas in Biodefense Research"](#) Regional Clinical Studies Workshop, Society of Quality Assurance, Holiday Inn at BWI, Baltimore MD

30 March 2006. [Biowarfare to Biodefense: Operation Whitecoat and USAMRIID History](#). University of Maryland, School of Nursing, Visit and Tour of USAMRIID, Frederick MD

5 April 2006. [Maryland Medical History Connections: Smallpox in 1700s and Yellow Fever in 1900s](#) USAMRIID Library Day Presentation. Fort Detrick, MD.

8 May 2006. ["Evolution of Standards for Ethical Research Involving Human Subjects."](#) Investigator - IRB Member [HRPP Training Seminar](#), 1:00 to 5:00 pm, USAMRIID Conference Room, Frederick MD.

12 June 2006 ["The Beauty of Art and Science Inspires Novel Ideas in Both"](#) Johns Hopkins Alumni Dinner, Hagerstown MD

3-5 October 2006. **Invited Lecture:** Participated in Clinician Training sessions and meetings with key staff at the [National Center for Disease Control](#), Tbilisi, Republic of Georgia.

6 & 7 October 2006. **Invited Lecture:** ["Evolving Research Regulation,"](#) "IRB Review," and "Research Compliance Oversight" presented at Tbilisi State Medical University: Institute of Postgraduate Medical Education and Continuous Professional Development, [Tbilisi, Republic of Georgia](#).

23 March 2007. "How a Lymph Node Works: an Immunophotojournalists POV." Celebration of COL [Art Anderson's](#) Retirement from the US Army after 29 yrs 9 months of active duty (41 yrs total service), USAMRIID, Fort Detrick MD

21 April 2007. **Invited Lecture:** "Biowarfare to Biodefense: [History Of The US Army Medical Research Institute of Infectious Diseases](#)." Tour and Lecture at Fort Detrick. Society of Military Historians National Meeting, Frederick MD

14 June 2007. **Invited Lecture:** "History of Fort Detrick: Biowarfare to Biodefense." Special presentation for Delegation of Japanese Scientists accompanying COL(Ret) Earnest Takafuji, Dalrymple Conference Room USAMRIID, Fort Detrick.

20-22 June 2007. **Invited Lecture:** Meetings in [Baku, Republic of Azerbaijan](#) to charter first IRB at Anti-Plague Station and file DHHS-OHRP FWA application.

17 November 2007. USAMRIID New Employee's HRPP Briefing, "Human Subjects Research & USAMRIID History. Dalrymple Conference Room. This presentation is given quarterly to all new employees as a component of New Employee Orientation.

24 January 2008. USAMRIID Division of Medicine Special Immunizations Program [SIP] Training, "The History of Human Subjects Research at USAMRIID and SIP. SIP Conference Room

18 September 2008. **Invited Lecture:** [Evolution of Human Subjects Protections: Planned vs Reactionary Regulations and Why IRBs Do What they Do?](#). Walter Reed Army Institute of Research Off-Site Meeting. Morningside Inn, Maryland

20 September 2008. **Invited Lecture:** "History and Ethical Accomplishments of Operation Whitecoat." Operation Whitecoat Volunteers' Reunion, Seventh Day Adventist Church, Frederick MD

29 October 2008. [Biowarfare to Biodefense: Operation Whitecoat and USAMRIID History](#). University of Maryland, School of Nursing, Visit and Tour of USAMRIID, Frederick MD

27 January 2009. Introductory Remarks and 40th Anniversary Presentation of ["The Living Weapon" by John Rubin](#) which recounts the Fort Detrick History up to the date 27 January 1969 when USAMU ended USAMRIID began. Dalrymple Conference Room. USAMRIID, Frederick MD

24 March 2009. **Invited Lecture:** [Evolution of Ethics Regulations for Research Involving Human Volunteer Subjects](#). American Medical Student Association Meeting, Benjamin Banneker Room, Adele H. Stamp Student Union Bldg., University of Maryland, College Park MD.

8 April 2009. Biowarfare to Biodefense: Operation Whitecoat and USAMRIID History. University of Maryland, School of Nursing, Visit and Tour of USAMRIID, Frederick MD

28 April 2009. **Invited Lecture:** [Operation Whitecoat and History of Human Subjects Research at USAMRIID 1953 - Present](#). Medical Research and Materiel Command, Office of Research Protections HRPP Seminar, Bldg 568, Fort Detrick, Frederick MD

29 April 2010. Responsible Conduct in Research, Quarterly Lecture Series **#1:** Introductory Lectures 1. Ethical Decision Making Primer; and, 2. Research Misconduct: How to Recognize It - What Can Be Done About It? Presented by Arthur O. Anderson. Copies of the NAS Book "On Being A Scientist: A Guide to Responsible Conduct In Research, 3rd Edition" was given to each registered attendee. Dalrymple Conference Room, USAMRIID, Frederick MD 21701.

28 July 2010. Responsible Conduct in Research **#2**: Lectures 3. "The Statutory Basis and Procedures used in Investigating Research Misconduct," Presented by Stephen Maleson. 4. "Building a culture of Research Integrity," Presented by Arthur O. Anderson, Dalrymple Conference Room, USAMRIID, Frederick MD 21701.

13 August 2010. Ethical Considerations in Operation Whitecoat and USAMRIID History. Aerosol Biology Course, Bull Run Hall, Room 247. George Mason University 10900 University Blvd., Manassas, VA 20110.

28 October 2010. Responsible Conduct in Research **#3**: Lectures 5. "What Would Gauss DO?: Ethical Guidelines for Data Analysis" Sarah Norris, Biostatistics Branch, Research Support Division; and, 6. "Observational Integrity: Responsible Use of Image Data" Arthur O. Anderson MD, Headquarters, Office of Human Use and Ethics, Research Integrity Officer, Dalrymple Conference Room, USAMRIID, Fort Detrick MD 21702

31 October 2010. **Invited Lecture:** ["Anatomy and Physiology Of The Lymph Node: An Immunophotojournalist's POV."](#), American College of Veterinary Pathologists, Session 1, Marriott Waterfront Hotel, Baltimore MD

17 November 2010. ["Conflict of Interest in Military Medical Research."](#) RCR Ethics Conference, USAISR, Fort Sam Houston, San Antonio, TX.

28 January 2011. Responsible Conduct in Research **#4**: "How Intellectual Property & Other Legal Issues Impact on the Perception of Ethical Conduct of Research." presented by Peter D. Weinstein Ph.D., J.D. Dalrymple Conference Room, USAMRIID, Fort Detrick MD 21702

3 July 2012. **Invited Lecture:** ["What your lymph nodes do besides swell up when you get mono"](#) Frederick National Lab and Fort Detrick Summer Student Seminar Series, Fort Detrick MD 21702

12 July 2012. "Ethical Considerations in Operation Whitecoat and USAMRIID History" Officer Professional Development Seminar, US Army Medical Materiel Development Agency, Fort Detrick MD 21702.

27 February 2013. ["Biowarfare to Biodefense: Operation Whitecoat and USAMRIID History"](#) Lecture for - FDA Office of Counterterrorism and Emerging Threats (OCET), 10903 New Hampshire Ave, Silver Spring, MD 20993.

18 March 2015. ["Ethical Use of Human Subjects in Infectious Disease Research" + Comments on the West African Ebola Virus Outbreak](#) for the Boalt Healthcare & Biotech Law Society and the Berkeley Center for Law & Technology, UC Berkeley, Berkeley CA

27 July 2016. [Biowarfare to Biodefense: Operation Whitecoat & USAMRIID History](#) [60 years of Ethical Human Subjects Research, presented at Rotary Club of Frederick](#), Frederick MD

19 September 2017. Screening of Operation Whitecoat Movie plus Q&A. AMEDD Commander's Conference, Fort Detrick, Bldg 1520 9 am - 11 am.

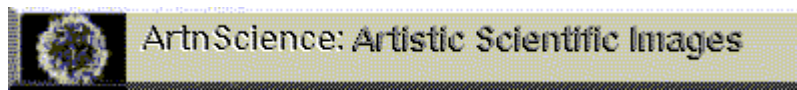
13 October 2017. Screening of Operation Whitecoat Movie and Panel Discussion (by Skype) Pacific Northwest National Laboratory (PNNL) Institutional Review Board program, 8:30-10:30 am, Richland, WA 99352

1 November 2017. Screening of [Operation Whitecoat Documentary](#) followed by a Panel Discussion about Human Subjects Research with Jonathan Moreno, Phillip Pittman and Art Anderson moderated by Ann Boyd. Hood College Hodson Auditorium, Rosenstock Hall, Hood College, Frederick MD

29 November 2017. "Evolution of Regulatory and Ethical Standards in Army Research" Presented at ARDEC Human Research Protections Office, HRPP Training Day at Cannon Gates Center, Picatinny Arsenal., New Jersey.

19 February 2018. Screening of Operation Whitecoat Movie plus Q&A about the movie and infectious disease research presented for the University of Maryland School of Medicine History of Medicine Interest Group, Davidge Hall, Baltimore MD

22 February 2019. ["Ethical Use of Human Subjects in Infectious Disease Research" + Comments on the West African Ebola Virus Outbreak](#) presented for The University of Maryland School of Medicine Infectious Disease Interest Group, Davidge Hall, Baltimore MD.



[Link to Art's Annotated Bibliography](#)

