

# CURRICULUM VITAE

JOHN E. CRAIGHEAD, M.D.

June, 1997

Department of Pathology  
University of Vermont  
College of Medicine  
Burlington, VT 05405

Personal History: Born - August 14, 1930; Pittsburgh, PA

Education: University of Utah, B.S., 1952  
University of Utah, M.D., 1956

## Appointments:

1955 Los Alamos Scientific Laboratory, Los Alamos, New Mexico (summer)  
1956-57 Intern, Ward Medical Service, Barnes Hospital, St. Louis, MO  
1957-58 Laboratory of Infectious Diseases, National Institutes of Health, Bethesda, MD  
1958-60 Middle American Research Unit, National Institutes of Health, Balboa Heights, Canal Zone  
1960-61 Junior Assistant Resident in Pathology, Peter Bent Brigham Hospital, Boston, MA  
1961-62 Senior Assistant Resident in Pathology, Peter Bent Brigham Hospital, Boston, MA  
1962-63 Chief Resident in Pathology, Peter Bent Brigham Hospital, Boston, MA  
1963-66 Associate in Pathology, University full time, Harvard Medical School, Boston, MA  
1963-68 Associate in Pathology, Peter Bent Brigham Hospital, Boston, MA  
1966-68 Assistant Professor of Pathology, Harvard Medical School, Boston, MA  
1968-69 Associate Professor of Pathology, University of Vermont College of Medicine, Burlington, VT  
1969-96 Professor of Pathology, University of Vermont College of Medicine, Burlington, VT  
1996- Professor of Pathology Emeritus, University of Vermont College of Medicine, Burlington, VT  
1974-1990 Chairman, Department of Pathology, University of Vermont College of Medicine, Burlington, VT  
1970-1994 Attending Physician, Medical Center Hospital of Vermont, Burlington, VT  
1995- Attending Physician, Fletcher Allen Health Care, Burlington, VT

## Societies:

Academy of Pathology  
American Association for the Advancement of Science  
American Association of Investigative Pathologists  
American Thoracic Society  
Infectious Disease Society  
Association of Pathology Chairmen (President, 1981-82)  
International Academy of Pathology (Councillor, 1980-84)  
New England Society of Pathologists (President, 1980-81)  
Massachusetts Society of Pathologists (Executive Committee, 1987)



Chittenden County Medical Society  
Vermont Medical Society  
American Society for Virology  
College of American Pathologists, Eminentus  
American Medical Association, Ementus  
American Association for Cancer Research, Ementus

2

Board Certification:

American Board of Pathology (Anatomic Pathology) 1963  
American Board of Pathology (Clinical Pathology) 1967  
National Board of Medical Examiners

Honors:

Special Fellow, National Institutes of Health, 1963  
Royal Society of Medicine Traveling Fellow, 1971  
David Rumbough Scientific Award, 1976  
Moses Barron Award, 1977  
Harry B. Harding Memorial Lectureship, Evanston Hospital, Illinois, 1981  
Fourth Annual Karl Solberg Lectureship, University of Illinois, 1981  
H.P. Smith Memorial Award, American Society of Clinical Pathologists, 1987  
Finlayson Seminar Lectureship, McGill University, Montreal, 1987  
George Hoyt Whipple Lectureship, University of Rochester, 1989

University Service:

|         |                                                                                                        |
|---------|--------------------------------------------------------------------------------------------------------|
| 1969    | Ad Hoc Committee on Medical School Governance                                                          |
| 1971-72 | Acting Director and Member of Executive Committee, The Environmental Program                           |
| 1971-72 | Chairman, Search Committee for the Director of the Environmental Program                               |
| 1972    | Chairman, Assessment, and Chairman, Search Committee, for the Department of Community Medicine         |
| 1972-76 | Associate Director, National Heart and Lung Institute, Special Center of Research in Pulmonary Disease |
| 1976    | Chairman, Search Committee for Department of Medicine Chairman                                         |
| 1976-80 | Director, Vermont Lung Center (National Research and Demonstration Center of NHLBI)                    |
| 1980-95 | Director, NIEHS Environmental Pathology Training Program                                               |
| 1983    | Chairman, Search Committee for Director, Vermont Regional Cancer Center                                |
| 1988-91 | Member, Vermont Regional Cancer Center                                                                 |

Government Service:

|         |                                                                                                                                                                                                                                                                           |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1966-68 | Associate Member, Commission of Viral Infections, Armed Forces Epidemiological Board                                                                                                                                                                                      |
| 1971-75 | Advisory Committee on Infectious Diseases, National Institute of Allergy and Infectious Diseases                                                                                                                                                                          |
| 1970-   | Ad Hoc Study Sections, NIAID, NHLBI, NIAMDD, NCI, NIEHS, EPA                                                                                                                                                                                                              |
| 1979-81 | National Research Council Assembly of Mathematical and Physical Sciences, U.S. National Committee for Geochemistry Subcommittee on the Geochemical Environment in Relation to Health and Disease, Panel on the Geochemistry of Fibrous Materials Related to Health Risks. |
| 1984-86 | Pathology A Study Section, National Institutes of Health.                                                                                                                                                                                                                 |
| 1985-89 | National Advisory Environmental Health Sciences Council, National Institutes of Health                                                                                                                                                                                    |

Non-University Professional Activities:

|         |                                                                                             |
|---------|---------------------------------------------------------------------------------------------|
| 1978-84 | Association of Pathology Chairmen, Inc.; Secretary-Treasurer, Vice President and President. |
| 1978-81 | National Board of Medical Examiners, Pathology Committee                                    |
| 1978-82 | American Society of Clinical Pathologists Basic Science Research Symposium Committee        |

- 1978-80 Juvenile Diabetes Foundation Medical Science Advisory Board
- 1979-83 Residency Review Committee for Pathology, Vice Chairman (1982-84) Accreditation Council for Graduate Medical Education - ACGME
- 1980-81 Environmental Resource Committee, Council on Pathology Practice, College of American Pathologists
- 1982-83 Council of Scientific Affairs - American Medical Association - Advisory Panel on Asbestos Related Diseases; Panel Chairman
- 1991- Scientific Program Director & Chair of Environmental Pathology Task Force; Universities Associated for Research and Education in Pathology
- 1992- Pulmonary Disease Panel, American Registry of Pathology
- 1992-96 Advisory Council, Registry of Comparative Pathology

Editorial Boards:

Human Pathology  
 Laboratory Investigation, emeritus  
 Archives of Pathology and Laboratory Medicine, emeritus  
 American Journal of Pathology, emeritus

Publications:

1. Reichelderfer, T.E., Chanock, R.M., Craighead, J.E., Huebner, R.J., Turner, H.C., James, W. and Ward, T.G.: Infection of human volunteers with Type 2 hemadsorption virus. *Science* 128:779-780, 1958.
2. Murnane, T.G., Craighead, J.E., Mondragon, H. and Shelokov, A.: Fatal disease of swine due to encephalomyocarditis virus. *Science* 131:498-499, 1960.
3. Craighead, J.E., Cook, K.M., and Chanock, R.M.: Infection of hamsters with Parainfluenza 3 virus. *Proc. Soc. Exp. Biol. Med.* 104:310-324, 1960
4. Craighead, J.E., Shelokov, A., Peralta, P.H. and Vogel, J.E.: Croup-associated virus infection in adults. Report of two cases. *N. Engl. J. Med.* 264:315-317, 1961.
5. Craighead, J.E., Shelokov, A., Vogel, J. and Peralta, P.: An outbreak of influenza B in Panama. *Am. J. Trop. Med. Hyg.* 10:71-74, 1961.
6. Bell, J.A., Craighead, J.E., James, R.G. and Wong, D.: Epidemiological observations on two outbreaks of Asian influenza in a children's institution. *Am. J. Hyg.* 73:84-89, 1961.
7. Craighead, J.E. and Shelokov, A.: Encephalomyocarditis virus hemagglutination-inhibition test using antigens prepared in HeLa cell cultures. *Proc. Soc. Exp. Biol. Med.* 108:823-826, 1961.
8. Craighead, J.E., Shelokov, A. and Peralta, P.H.: The lizard - a possible host for eastern equine encephalitis virus in Panama. *Am. J. Hyg.* 76:82-87, 1962.
9. Craighead, J.E., Mahoney, E.M., Carver, D.H., Naficy, K. and Fremont-Smith, P.: Orchitis due to Coxsackie virus Group B, Type 5. Report of a case with isolation of virus from the testis. *N. Engl. J. Med.* 267:498-500, 1962.
10. Craighead, J.E., Peralta, P.H., Murnane, T.G. and Shelokov, A.: Oral infection of swine with the encephalomyocarditis virus. *J. Infect. Dis.* 112:205-212, 1963.
11. Craighead, J.E., Peralta, P.H. and Shelokov, A.: Demonstration of encephalomyocarditis virus antibody in human serums from Panama. *Proc. Soc. Exp. Biol. Med.* 114:300-303, 1963.

12. Craighead, J.E., Shelokov, A. and Brody, J.: Enterovirus infections of Panamanian children. An outbreak of poliomyelitis during a 12-month population survey. *Am. J. Hyg.* 79:328-335, 1964.
13. Hedley-Whyte, E.T. and Craighead, J.E.: Generalized cytomegalic inclusion disease after renal homotransplantation. *N. Engl. J. Med.* 272:473-475, 1965.
14. Craighead, J.E.: Some properties of the encephalomyocarditis, Columbia SK and Mengo viruses. *Proc. Soc. Exp. Biol. Med.* 119:408-412, 1965.
15. Craighead, J.E.: Necrosis of the pancreas, parotid and lacrimal glands associated with encephalomyocarditis (EMC) virus infection. *Nature* 207:1268-1269, 1965.
16. Craighead, J.E.: Pathogenicity of the E and M variants of the encephalomyocarditis (EMC) virus. I. Myocardiotropic and neurotropic properties. *Am. J. Pathol.* 48:333-345, 1966.
17. Craighead, J.E.: Pathogenicity of the E and M variants of the encephalomyocarditis (EMC) virus. II. Lesions of the pancreas, parotid and lacrimal glands. *Am. J. Pathol.* 48:375-386, 1966.
18. Craighead, J.E., Sather, G.E., Hammon, W. McD. and Damman, G.J.: Pathology of Dengue virus infections in mice. *Arch. Pathol.* 81:232-239, 1966.
19. Collins, J.E., Craighead, J.E. and Brooks, J.: Rationale for total pancreatectomy for carcinoma of the pancreatic head. *N. Engl. J. Med.* 274:599-602, 1966.
20. Kanich, R.E. and Craighead, J.E.: Cytomegalovirus infections and cytomegalic inclusion disease in renal homotransplant recipients. *Am. J. Med.* 40:874-882, 1966.
21. Craighead, J.E.: Growth of parainfluenza type 3 virus and interferon production in infant and adult mice. *Br. J. Exp. Pathol.* 47:233-241, 1966.
22. Craighead, J.E.: Growth of parainfluenza type 3 virus in organ cultures of guinea pig tissue. *J. Bacteriol.* 92:751-761, 1966.
23. Craighead, J.E.: Parainfluenza type 3 virus A myxovirus infecting man and lower animals. In *La Grippe*, Proc. 8th Int. Congress of Comparative Pathology, Beirut, 1966, pp. 133-148.
24. Swanson, J.L., Craighead, J.E. and Reynolds, E.S.: Electron microscopic observation on Herpesvirus hominis (Herpes simplex virus) encephalitis in man. *Lab. Invest.* 15:1966-1981, 1966.
25. Kline, T. and Craighead, J.E.: Renal homotransplantation: A cytological study of the urine sediment. *Am. J. Clin. Pathol.* 47:802-806, 1967.
26. Craighead, J.E.: Polycation effect on virulent non-pathogenic r' variant of encephalomyocarditis (EMC) virus. *Nature* 214:716-717, 1967.
27. Craighead, J.E., Hamshaw, J.B. and Carpenter, C.B.: Cytomegalovirus infection after renal allotransplantation. *JAMA* 201:725-728, 1967.
28. Craighead, J.E.: Effect of polycations on growth and dissemination of the encephalomyocarditis virus in mice. *J. Virol.* 1:988-995, 1967.
29. Craighead, J.E.: Pathogenic properties of encephalomyocarditis virus plaque variants. *Proc. Soc. Exp. Biol. Med.* 126:806-813, 1967.

30. Craighead, J.E. and Brennan, B.J. Cytopathic effects of parainfluenza type 3 in organ cultures of human respiratory tract tissue. *Am. J. Pathol.* 52:287-290, 1968.
31. Teguneyer, P.J. and Craighead, J.E. Infection of adult mouse macrophages *in vitro* with cytomegalovirus. *Proc. Soc. Exp. Biol. Med.* 129:690-694, 1968.
32. Craighead, J.E. and McLane, M.F. Diabetes mellitus: Induction in mice by encephalomyocarditis (EMC) virus. *Science* 162:913-914, 1968.
33. Teguneyer, P.J., Ming, P.M.L. and Craighead, J.E. Cytological studies on cytomegalovirus-infected mouse cells. *Arch. fur ges. Virusforsch.* 26:334-340, 1969.
34. Craighead, J.E. and Layne, C. Contrasting effect of polycations on plaquing efficiency of EMC virus variants. *J. Virol.* 3:45-51, 1969.
35. From, G.L.A., Craighead, J.E., McLane, M.F. and Steinke, J. Virus induced diabetes in mice. *Metabolism* 17:1154-1158, 1969.
36. Craighead, J.E. Pulmonary rhinovirus type 13 infection. *N. Engl. J. Med.* 281:1403-1404, 1969.
37. Craighead, J.E. Immunologic response to cytomegalovirus infection in renal allograft recipients. *Am. J. Epidemiol.* 90:506-513, 1969.
38. Craighead, J.E. Cytopathology of adenoviruses types 7 and 12 in human respiratory epithelium. *Lab. Invest.* 22:553-557, 1970.
39. Craighead, J.E. and Steinke, J. Diabetes-like syndrome in mice infected with the encephalomyocarditis virus. *Am. J. Pathol.* 63:119-130, 1971.
40. Craighead, J.E. Pulmonary cytomegalovirus infection in the adult. *Am. J. Pathol.* 63:487-500, 1971.
41. Kanich, R.E. and Craighead, J.E. Human cytomegalovirus infection of cultured fibroblasts. I. Cytopathologic effects induced by an "adapted" and a "wild" strain. *Lab. Invest.* 27:263-272, 1972.
42. Kanich, R.E. and Craighead, J.E. Human cytomegalovirus infection of cultured fibroblasts. II. Viral replicative sequence of a "wild" and an "adapted" strain. *Lab. Invest.* 27:273-282, 1972.
43. Craighead, J.E., Kanich, R.E. and Almeida, J.D. Non-viral microbodies with viral antigenicity produced in cytomegalovirus-infected cells. *J. Virol.* 10:766-773, 1972.
44. Kanich, R.E., Craighead, J.E. and Kessler, J.B. Lesions of renal glomeruli in mice with virus-induced diabetes mellitus-like disease. *Diabetologia* 9:203-209, 1973.
45. Brody, A.R. and Craighead, J.E. A simple perfusion apparatus for lung fixation. *Proc. Soc. Exp. Biol. Med.* 143:388-391, 1973.
46. Craighead, J.E. Viral lesions of the pancreatic islets of Langerhans. *Proc. 8th Cong. Int. Diabetes Fed., Int. Cong. Series No. 312* (W. J. Malaisse, J. Pirart, eds.) Excerpta Medica, Amsterdam, 1974.
47. Craighead, J.E., Kanich, R.E. and Kessler, J.B. Lesions of the islets of Langerhans in encephalomyocarditis virus-infected mice with diabetes mellitus-like syndrome. *Am. J. Pathol.* 74:287-294, 1974.
48. Brody, A.R., Graham, W.G., Kanich, R.E. and Craighead, J.E. Cyst wall formation in pulmonary eosinophilic granuloma. *Chest* 66:576-578, 1974.

49. Brody, A.R. and Craighead, J.E.: Pathogenesis of pulmonary cytomegalovirus infection in immunosuppressed mice. *J. Infect. Dis.* 129:677-682, 1974.
50. Craighead, J.E. and Higgins, D.A.: Genetic influences affecting the occurrence of a diabetes mellitus-like disease in mice infected with the encephalomyocarditis virus. *J. Exp. Med.* 139:414-426, 1974.
51. Brody, A.R. and Craighead, J.E.: Preparation of human lung biopsy specimens by perfusion-fixation. *Am. Rev. Respir. Dis.* 112:645, 1975.
52. Craighead, J.E.: Disease accentuation after immunization with inactivated microbial vaccines. *J. Infect. Dis.* 131:749-754, 1975.
53. Murphy, G.F., Brody, A.R. and Craighead, J.E.: Monocyte migration across pulmonary membranes in mice infected with cytomegalovirus. *J. Exp. Molec. Pathol.* 22:35-44, 1975.
54. Brody, A.R. and Craighead, J.E.: Cytoplasmic inclusions in pulmonary macrophages of cigarette smokers. *Lab. Invest.* 32:125-132, 1975.
55. Mossman, B.T. and Craighead, J.E.: Long-term maintenance of differentiated respiratory epithelium in organ culture. *Proc. Soc. Exp. Biol. Med.* 149:227-233, 1975.
56. Craighead, J.E.: Animal model of human disease Diabetes mellitus (juvenile- and maturity-onset types) animal model Mice infected with the M variant of encephalomyocarditis virus. *Am. J. Pathol.* 78:537-540, 1975.
57. Brody, A.R. and Craighead, J.E.: Interstitial associations of cells lining air spaces in human pulmonary fibrosis. *Virchow's Arch. [Pathol. Anat.]* 372:39-49, 1976.
58. Mossman, B.T., Ley, B.W. and Craighead, J.E.: Squamous metaplasia of the tracheal epithelium in organ culture. I. Effects of hydrocortisone and B-retinyl acetate. *Exp. Mol. Biol.* 24:405-414, 1976.
59. Brody, A.R., Vallyathan, N.V. and Craighead, J.E.: Distribution and elemental analysis of inorganic particulates in pulmonary tissue. *Scanning Electron Microscopy/1976. I. Proc. 9th Annual Symposium*, pp. 477-483, 1976.
60. Davis, G.S., Brody, A.R., Landis, J.N., Graham, W.O., Craighead, J.E. and Green, G.M.: Quantitation of inflammatory activity in interstitial pneumonitis by bronchofiberscopic pulmonary lavage. *Chest* 69:263, 1976.
61. Mossman, B.T., Kessler, J.B., Ley, B.W. and Craighead, J.E.: Interaction of crocidolite asbestos with hamster respiratory mucosa in organ culture. *Lab. Invest.* 36:131-139, 1977.
62. Garovoy, M.R., Carpenter, C.B., Myrberg, S.M., Gleason, R.E., Funk, I.B., Flood, T.M. and Craighead, J.E.: Increased incidence of HLA-B8 in juvenile-onset diabetes mellitus. *Transplant. Proc.* 9:177-179, 1977.
63. Brody, A.R., Dwyer, D.M., Vallyathan, N.V., Visco, G.P. and Craighead, J.E.: The elemental content of granulomata: Preliminary studies of pulmonary sarcoidosis and hypersensitivity pneumonitis. *Scanning Electron Microscopy/1977. I. Proc. 10th Annual Symposium*, pp. 129-136, 1977.
64. Mossman, B.T. and Craighead, J.E.: Organ culture of the hamster bladder epithelium. *Tissue Culture Assoc. Manual* 3:623-624, 1977.
65. Mossman, B.T., Adler, K.B. and Craighead, J.E.: Interaction of carbon particles with tracheal epithelium in organ culture. *Environ. Res.* 16:110-122, 1978.
66. Mossman, B.T., Heintz, N.H. and Craighead, J.E.: Squamous metaplasia of the tracheal epithelium in organ culture. II. Nutritional influences. *Proc. Soc. Exp. Biol. Med.* 157:500-505, 1978.

67. Brody, A.R., Kelleher, P.C. and Craighead, J.E.: A mechanism of exudation through intact alveolar epithelial cells in the lungs of cytomegalovirus-infected mice. *Lab. Invest.* 39:281-288, 1978.
68. Mossman, B.T. and Craighead, J.E.: Induction of tumors in hamster tracheal grafts with 3-methylcholanthrene-coated Lycra fibers. *Cancer Res.* 38:3717-3722, 1978.
69. Brody, A.R., Valiyathan, N.V. and Craighead, J.E.: Use of scanning electron microscopy and x-ray energy spectrometry to determine the elemental content of inclusions in human tissue lesions. *Scanning Electron Microscopy/1978. Proc. 11th Annual Symposium*, pp. 252-259, 1978.
70. Adler, K.B., Brody, A.R. and Craighead, J.E.: Association of microtubules and microfilaments with mucin granules in tracheal goblet cells - their possible role in exocytosis. *Proc. 9th Intern. Cong. Elect. Microsc.* 2:500-501, 1978.
71. Craighead, J.E. and Nerup, J., eds.: *Report from Workshop on Etiology and Pathogenesis of Insulin-Dependent Diabetes Mellitus*. Juvenile Diabetes Foundation, New York, 1978.
72. Winn, W.C., Jr., Glavin, F.L., Perl, D.P., Keller, J.L., Andrea, T.L., Brown, T.M., Coffin, C.M., Sensecqua, J.E., Roman, L.N. and Craighead, J.E.: The pathology of Legionnaire's Disease. Fourteen fatal cases from the 1977 outbreak in Vermont. *Arch. Pathol. Lab. Med.* 102:344-350, 1978.
73. Davis, G.S., Brody, A.R. and Craighead, J.E.: Analysis of airspace and interstitial mononuclear cell populations in human diffuse interstitial lung disease. *Am. Rev. Respir. Dis.* 118:7-15, 1978.
74. Craighead, J.E.: Current views on the etiology of insulin-dependent diabetes mellitus. *N. Engl. J. Med.* 299:1439-1445, 1978.
75. Winn, W.C., Jr., Glavin, F.L., Perl, D.P. and Craighead, J.E.: Macroscopic pathology of the lungs in Legionnaire's disease. *Ann. Int. Med.* 90:548-551, 1979.
76. Mossman, B.T. and Craighead, J.E.: Use of hamster tracheal organ cultures for assessing the cocarcinogenic effects of inorganic particulates on the respiratory epithelium. *Prog. Exp. Tumor Res.* 24:37-47, 1979.
77. Craighead, J.E. and Mossman, B.T.: Carcinoma induction by 3-methylcholanthrene in hamster tracheal tissue implanted in syngeneic animals. *Prog. Exp. Tumor Res.* 24:48-60, 1979.
78. Glavin, F.L., Winn, W.C., Jr. and Craighead, J.E.: Ultrastructure of lung in Legionnaire's disease. *Ann. Int. Med.* 90:555-559, 1979.
79. Craighead, J.E.: Does insulin-dependent diabetes mellitus have a viral etiology? *Hum. Pathol.* 10:267-278, 1979.
80. Anderson, R.E., Wesson, J.T., Craighead, J.E., Lacy, P.E., Wisler, R.W. and Hill, R.B.: The autopsy past, present and future. *JAMA* 242:1056-1059, 1979.
81. Craighead, J.E.: Environmental pathology - an academic discipline? *Arch. Pathol. Lab. Med.* 103:325-326, 1979.
82. Craighead, J.E.: Chronic and persistent viral infections. *Fed. Proc.* 38:2659, 1979.
83. Mossman, B.T. and Craighead, J.E.: Asbestos-induced epithelial changes in organ cultures of hamster trachea: Inhibition by the vitamin A analog, retinyl methyl ether. *Science* 207:311-313, 1980.
84. Wilson, G.L., D'Andrea, B.J., Bellomo, S.C. and Craighead, J.E.: Encephalomyocarditis virus infection of cultured murine pancreatic beta cells. *Nature* 285:112-113, 1980.

85. Morrow, P.L., Freedman, A. and Craighead, J.E.: Testosterone effect on experimental diabetes mellitus in encephalomyocarditis (EMC) virus-infected mice. *Diabetologia* 18:247-249, 1980.
86. Vallyathan, N.V., Brody, A.R. and Craighead, J.E.: Biological standards for energy dispersive x-ray analysis. *J. Environ. Pathol. Toxicol.* 3:269-280, 1980.
87. Craighead, J.E., Bradley, B.J. and Mossman, B.T.: Comparative studies on the cytotoxicity of amphibole and serpentine asbestos. *Environ. Health Perspect.* 34:37-46, 1980.
88. Craighead, J.E.: Is there a need for clinical experience in pathology training programs? *Pathologist* 80:248-249, 1980.
89. Craighead, J.E. and Vallyathan, N.V.: Cryptic pulmonary lesions in workers occupationally exposed to dust containing silica. *JAMA* 244:1939-1941, 1980.
90. Murphy, G.F., Brody, A.R. and Craighead, J.E.: Exfoliation of respiratory epithelium in hamster tracheal organ cultures infected with *Mycoplasma pneumoniae*. *Virchows Arch. (Pathol. Anat.)* 389:93-102, 1980.
91. Ross, J.S., Fanning, W.L., Beautyman, W. and Craighead, J.E.: Fatal massive hepatic necrosis from varicella-zoster hepatitis. *Am. J. Gastroenterol.* 74:423-427, 1980.
92. Vallyathan, N.V., Green, F.H.Y. and Craighead, J.E.: Recent advances in the study of trimeral pneumococcosis. *Pathol. Anna.* 15:77-104, 1980.
93. Mossman, B.T., Ezerman, E.B., Adler, K.B. and Craighead, J.E.: Isolation and spontaneous transformation of hamster tracheal epithelial cells. *Cancer Res.* 40:4404, 1980.
94. Craighead, J.E.: Viral diabetes mellitus in man and experimental animals. *Am. J. Med.* 70:127-134, 1981.
95. Vallyathan, N.V. and Craighead, J.E.: Pulmonary pathology of workers exposed to non-asbestiform talc. *Hum. Pathol.* 12:28-35, 1981.
96. Mossman, B.T. and Craighead, J.E.: Mechanisms of asbestos cocarcinogenesis. *Environ. Res.* 25:269-280, 1981.
97. Adler, K.B., Craighead, J.E., Vallyathan, N.V. and Evans, J.N.: Actin-containing cells in human pulmonary fibrosis. *Am. J. Pathol.* 102:427-437, 1981.
98. Adler, K.B., Brody, A.R. and Craighead, J.E.: Studies on the mechanism of mucin secretion by cells of the porcine tracheal epithelium. *Proc. Soc. Exp. Biol. Med.* 166:96-106, 1981.
99. Little, B.W., Tilley, W.S., Dickerman, J.D. and Craighead, J.E.: Giant cell pneumonia associated with parainfluenza virus type 3 infection. *Hum. Pathol.* 12:478-481, 1981.
100. Adler, K.B., Hardwick, D.H. and Craighead, J.E.: Effect of cholera toxin on secretion of mucin by explants of guinea pig trachea. *Lab. Invest.* 45:372, 1981.
101. D'Andrea, B.J., Wilson, G.L. and Craighead, J.E.: Effect of genetic obesity in mice on the induction of diabetes by encephalomyocarditis virus. *Diabetes* 30:451-454, 1981.
102. Adler, K.B., Hardwick, D.H. and Craighead, J.E.: Porcine tracheal goblet cell ultrastructure: A three dimensional reconstruction. *Exp. Lung Res.* 3:68-80, 1982.
103. Gleason, R.E., Kahn, C.B., Funk, I.B. and Craighead, J.E.: Seasonal incidence of juvenile insulin-dependent diabetes in Massachusetts, 1964-1973. *Int. J. Epidemiol.* 11:39-45, 1982.

104. Adler, K.B., Winn, W.C., Jr., Hardnick, D.H. and Craighead, J.E.: Effects of bacterial toxins on secretion of mucin by rodent trachea *in vitro*. *Chest* 81:375, 1982.
105. Valiyathan, N.V., Bergeron, W.N., Robichaux, P.A. and Craighead, J.E.: Pulmonary fibrosis in an aluminum arc welder. *Chest* 81:372-374, 1982.
106. Woodworth, C.W., Mossman, B.T. and Craighead, J.E.: Comparative effects of fibrous and non-fibrous minerals on cells and liposomes. *Environ. Res.* 27:190-205, 1982.
107. Mossman, B.T., Adler, K.B., Jean, L. and Craighead, J.E.: Mechanisms of hypersecretion in rodent tracheal explants after exposure to chrysotile asbestos: Studies using lectin. *Chest* 81:235, 1982.
108. Keller, J.L., Craighead, J.E.: "Hazardous" wastes of the clinical chemistry laboratory. *Pathologist* 82:15-18, 1982.
109. Craighead, J.E. and Mossman, B.T.: The pathogenesis of asbestos-associated diseases. *N. Engl. J. Med.* 306:1446-1455, 1982.
110. Wilson, G.L., Bellomo, S.C. and Craighead, J.E.: Effect of interferon on encephalomyocarditis virus infection of cultured mouse pancreatic B cells. *Diabetologia* 24:38-41, 1982.
111. Craighead, J.E., Abraham, J.L., Churg, A., Green, F.H.Y., Kleinerman, J., Pratt, P.C., Seemayer, T.A., Valiyathan, V. and Weill, H.: The Pathology of Asbestos Associated Diseases of the Lungs and Pleural Cavities: Diagnostic Criteria and Proposed Grading Schema. Report of the Pneumoconiosis Committee of the College of American Pathologists and the National Institute for Occupational Safety and Health. *Arch. Pathol. Lab. Med.* 106:544-597, 1982.
112. Craighead, J.E.: Can an additional year of required training in pathology be justified? *Pathologist* 82:540-541, 1982.
113. Davis, G.S., Winn, W.C., Jr., Gump, D.W., Craighead, J.E. and Beary, H.N.: Legionnaires' pneumonia after aerosol exposure in guinea pigs and rats. *Am. Rev. Respir. Dis.* 126:1050-1057, 1982.
114. Winn, W.C., Jr., Davis, G.S., Gump, D.W., Craighead, J.E. and Beary, H.N.: Legionnaires' pneumonia after intratracheal inoculation of guinea pigs and rats. *Lab. Invest.* 47:568-578, 1982.
115. Craighead, J.E., Adler, K.B., Butler, G.B., Emerson, R.J., Mossman, B.T. and Woodworth, C.D.: Health effects of Mount St. Helens volcanic dust. *Lab. Invest.* 48:5-12, 1983.
116. Ito, K., Bellomo, S.C., Mukai, N. and Craighead, J.E.: Encephalomyocarditis virus induced diabetes mellitus in mice: Long-term changes in the structure and function of islets of Langerhans. *Diabetologia* 25:39-44, 1983.
117. Woodworth, C.D., Mossman, B.T. and Craighead, J.E.: Squamous metaplasia of the respiratory tract - possible pathogenetic role in asbestos-associated bronchogenic carcinoma. *Lab. Invest.* 48:578-584, 1983.
118. Wilson, G.L., Mossman, B.T. and Craighead, J.E.: Use of pancreatic beta cells in culture to identify diabetogenic N-nitroso compounds. *In Vitro* 19:25-30, 1983.
119. Woodworth, C.D., Mossman, B.T. and Craighead, J.E.: Induction of squamous metaplasia in organ cultures of hamster trachea by naturally occurring and synthetic fibers. *Cancer Res.* 43:4906-4913, 1983.
120. Woodworth, C.D., Mossman, B.T. and Craighead, J.E.: Interaction of asbestos with metaplastic squamous epithelium developing in organ cultures of hamster trachea. *Environ. Health Perspect.* 51:27-33, 1983.

121. Adler, K.A., Mossman, B.T., Butler, G., Jean, L. and Craighead, J.E.: Interaction of Mount St. Helens volcanic ash with cells of the respiratory epithelium. *Environ. Res.* 35:346-361, 1984.
122. Craighead, J.E., et al.: A physician's guide to asbestos-related diseases. Report of the Council on Scientific Affairs, American Medical Association. *JAMA* 252:2593-2597, 1984.
123. Goldstein, R.A. and Craighead, J.E.: Summary of Work Group on Lung Disease: Proceedings of Workshop on Chronic Disease in the Workplace and the Environment. *Arch. Environ. Health* 39:249-252, 1984.
124. Craighead, J.E.: A viral etiology for type I diabetes mellitus? *Behring Inst. Mitt.* 75:6-8, 1984.
125. Craighead, J.E.: Asbestos: An environmental reality. *JAMA* 252:3292-3293, 1984.
126. Craighead, J.E.: Editorial. Mesothelioma-A plea for biologic research. *Am. J. Ind. Med.* 7:181-183, 1985.
127. Craighead, J.E.: The immunopathology of type I diabetes mellitus - An evolving concept. (editorial) *Lab. Invest.* 53:119-121, 1985.
128. Babu, P.G., Huber, S.A. and Craighead, J.E.: Immunology of viral diabetes. *Surv. Synth. Path. Res.* 4:1-7, 1985.
129. Huber, S.A., Babu, P.G. and Craighead, J.E.: Genetic influences on the immunologic pathogenesis of encephalomyocarditis (EMC) virus-induced diabetes mellitus. *Diabetes* 34:1186-1190, 1985.
130. Craighead, J.E., et al.: Asbestos-Related Diseases, [Ltr to Editor], *JAMA* 254:1308-1309, 1985.
131. Babu, P.G., Huber, S., Sriram, S. and Craighead, J.E.: Genetic control of multisystem autoimmune disease in encephalomyocarditis virus infected Balb/c CUM and Balb/c ByJ mice. *Curr. Top. Microbiol. Immunol.* 122:154-161, 1985.
132. Moldiz, J.C. and Craighead, J.E.: Cholesterol gallstones studied by scanning electronic microscopy. *Pat. Clin.* 21:133-138, 1985.
133. Babu, P.G., Huber, S.A. and Craighead, J.E.: Contrasting features of T lymphocyte mediated diabetes in encephalomyocarditis virus-infected Balb/c By and Balb/c CUM mice. *Am. J. Pathol.* 124:193-198, 1986.
134. Gibbs, A., Craighead, J.E., Pooley, F. and Wagner, J.C.: The pathology of slateworkers' pneumoconiosis in Wales and Vermont. In: *Inhaled Particles VI*, Pergamon Press, London, 32:273-276, 1986.
135. Mossman B.T., Wilson G.L. and Craighead, J.E.: Chlorozotocin: A diabetogenic analog of streptozotocin with dissimilar mechanisms of action in pancreatic beta cells. *Diabetes* 34:602-610, 1986.
136. Craighead, J.E.: Current pathogenetic concepts of diffuse malignant mesothelioma. *Hum. Pathol.* 18:544-557, 1987.
137. Craighead, J.E., Akley, N.J., Gould, L.B. and Libbus, B.L.: Characteristics of tumors and tumor cells cultured from experimental asbestos-induced mesotheliomas in rats. *Am. J. Pathol.* 129:448-462, 1987.
138. Haynes, M.K., Huber, S.A., Craighead, J.E.: Helper-inducer T-lymphocytes mediate diabetes in EMC infected Balb/c ByJ mice. *Diabetes* 36:877-881, 1987.
139. Mackay, A.M., Tracy, R.P., Craighead, J.E.: Intermediate filament proteins in asbestos-induced mesotheliomas of the rat. *Cancer Res.* 47:5461-5468, 1987.
140. Craighead, J., Akley, N., Gould, L. and Mackay, A.: Biologic characteristics of asbestos-induced malignant mesothelioma in rats. *Chest* 91S:12-13, 1987.

141. Kanki, P.J., Allan J., Barrn, F., Redfield, R., Clumeck N., Quinn, T., Mowovondi, F., Thury, L., Burny, A., Zagury, D., Petat, E., Kocheleff, P., Pascal, K., Lausen, I., Fredericksen, B., Craighead, J., et al., Absence of antibodies to HIV-2/HTLV-4 in six central African nations. *AIDS Res. Hum. Retrovir.* 3:317-322, 1987.
142. Craighead, J.E., Moore, A., Grossmann, H., Ershler, W., Frattini, U., Savunger, C., Hess, U., Ngowi, F., Pathogenetic role of HIV infection in Kaposi's sarcoma of equatorial East Africa. *Arch. Pathol. Lab. Med.* 112:259-263, 1988.
143. Libbus, B.L. and Craighead, J.E., Chromosomal translocations with specific breakpoints in asbestos-induced rat mesotheliomas. *Cancer Res.* 48:6455-6461, 1988.
144. Craighead, J.E.: Eyes for the epidemiologist: The pathologist's role in shaping our understanding of the asbestos-associated diseases. *Am. J. Clin. Pathol.* 89:281-287, 1988.
145. Craighead, J.E., Kleinerman, J., Abraham, J.L., Gibbs, A.R., et al.: Diseases associated with exposure to silica and nonfibrous silicate minerals. *Arch. Pathol. Lab. Med.* 112:673-720, 1988.
146. Huber, S.A., Herzum, M., Craighead, J.E.: Myocarditis and dilated cardiomyopathy: Clinical and experimental evidence implicating autoimmunity in tissue injury. *Clin. Immunol.* 9:69-84, 1988.
147. Craighead, J.E.: The epidemiology and pathogenesis of malignant mesothelioma. *Chest* 96S: 92-93, 1989.
148. Craighead JE: Is advanced basement membrane glycosylation reversible? *Lab. Invest.* 60:471-472, 1989.
149. Libbus, B.L., Illesy, S.A. and Craighead, J.E.: Induction of DNA strand breaks in cultured rat embryo cells by crocidolite asbestos as assessed by nick translation. *Cancer Res* 49:5713-5718, 1989.
150. Craighead, J.E., Huber, S.A., Haynes, M.K.: Diverse patterns of immune and non-immune mediated disease in EMC M variant infected mice. *J. Autoimmunity* 3:27-29, 1990.
151. Craighead JE, Huber SA, Sriram S: Animal models of picornavirus-induced autoimmune disease: their possible relevance to human disease. *Lab Invest.* 63:432-446, 1990.
152. Mackay, A.M., Tracy, R.P., Craighead, J.E.: Cytokeratin expression in rat mesothelial cells *in vitro* is controlled by the extracellular matrix. *J. Cell Sci.* 95:97-107, 1990.
153. Kadima-Nzaji M and Craighead JE: T lymphocyte effects on murine cytomegalovirus pulmonary infection. *Am J Pathol.* 137:907-912, 1990.
154. Craighead, J.E.: Silica - Is it a carcinogen in the respiratory tract? Proc. VIIth International Pneumoconiosis Conference. US Dept. of Health and Human Services (NIOSH), Pub. No. 90-108, Part II, 1990; pp 1162-1164.
155. Adesina, A.M., Vallyathan, N.V., McQuillen, E.N., Weaver, D.O., and Craighead, J.E.: Bronchiolar inflammation and fibrosis associated with smoking: A morphological cross-sectional population analysis. *Am. Rev. Respir. Dis.* 143:144-149, 1991.
156. Craighead JE, Huber SA, Martin WB: Murine cytomegalovirus myocarditis. *Eur Heart J.* 12:69-72, 1991.
157. Barger MT, Craighead JE: Immunomodulation of encephalomyocarditis virus-induced disease in A/J mice. *J. Virol.* 65:2676-2681, 1991.
158. Topham DJ, Adesina A, Shenoy M, Craighead JE, Sriram S: Indirect role of T-cells in development of poliomyelitis and encephalomyelitis induced by EMC virus. *J. Virol.* 65:3238-3245, 1991.

159. Sriram S, Topham DJ, Carroll L, Shenoy M, Adesina A, Craighead JE. *In vivo* administration of TNF- $\alpha$  prevents EMC-M virus induced viral encephalitis. *Internat Immunol.* 3:641-645, 1991.
160. Lodge PA, Hausch CE, Huber SA, Martin B, Craighead JE. Biological differences in endothelial cells depending upon organ derivation. *Transplant Proc* 23(1):216-218, 1991.
161. Craighead JE. Do silica and asbestos cause lung cancer? *Arch. Path. Lab. Med.* 116:16-20, 1992.
162. Craighead JE, Martin WB, Huber SA. Role of CD4+ (helper) T cells in the pathogenesis of murine cytomegalovirus myocarditis. *Lab. Invest.* 66(6):755-761, 1992.
163. Craighead JE. [Commentary] Re: Changing attitudes and opinions regarding asbestos and cancer 1934-1965. *Am. J. Ind. Med.* 22:271-273, 1992.
164. Craighead JE, Emerson RJ, Stanley DE. Sileworkers' pneumoconiosis. *Human Path.* 23:1098-1105, 1992.
165. Gibbs AE, Pooley FD, Griffiths DM, Mitha R, Craighead JE, Rutner JR. Talc pneumoconiosis: a pathologic and mineralogic study. *Hum. Pathol.* 23:1344-1354, 1992.
166. Craighead JE. The pathologist as an expert witness. *Arch. Pathol. Lab. Med.* 116:488-489, 1992.
167. Craighead JE, Richards SA, Calore JD, Fan H, Weaver DL. Genetic factors influence malignant mesothelioma development in mice. *Eur. Respir. Rev.* 3(11):118-120, 1993.
168. Craighead JE, Calore JD, Corson JM, Copeland KC, Maddox JC, Sporn MB. The pathogenetic role of growth factors in human and rat malignant mesotheliomas. *Eur. Respir. Rev.* 3(11):159-160, 1993.
169. Karn CM, Socinski MA, Fletcher JA, Corson JM, and Craighead JE. Cardiac synovial sarcoma with translocation (X;18) associated with asbestos exposure. *Cancer* 73:74-78, 1994.

#### Book Editorships:

1. *Environmental and Occupational Disease: as presented at A State-of-the-Art Conference for Pathology Educators.* Sugarbush Inn, Warren, VT (October 18-19, 1991).
2. *The Pathology of Environmental and Occupational Disease.* Mosby YearBook, Inc., St. Louis, 1995.

#### Book Chapters:

1. Craighead, J.E.: Cytomegalovirus Infection After Renal Allograft Transplantation. In *Immunosuppressive Therapy*. Med. Exam. Pub. Co., Flushing, NY, 1971.
2. Kanich, R.E. and Craighead, J.E.: Cytomegalovirus Infection and Cytomegalic Inclusion Disease in Renal Homotransplant Recipients. In *Contribution to Our Understanding of Human Cytomegalovirus Infection*. Med. Exam. Pub. Co., Flushing, NY 1971.
3. Craighead, J.E.: Inflammatory Lesions of the Islets of Langerhans. In: *Endocrine Pancreas*. Am. Phy. Soc., 1972.
4. Craighead, J.E.: Insulitis associated with viral infection In *Immunity and Autoimmunity in Diabetes Mellitus* (P.A. Berman, ed.), Proc. Francoqui Found. Colloquium. Int. Cong. Series No. 316, Excerpta Medica, Amsterdam, 1974.

5. Mossman, B.T. and Craighead, J.E. Topical application of polycyclic hydrocarbons to differentiated respiratory epithelium in long-term organ cultures. In Environmental Lung Cancer, Carcinogenesis and Bioassays, Springer-Verlag, New York, pp. 514-520, 1974.
6. Craighead, J.E.: The Role of Viruses in the Pathogenesis of Pancreatic Disease and Diabetes Mellitus. Prog. Med. Virol. 19:161-214, 1975.
7. Craighead, J.E. Cytomegalovirus Pulmonary Disease. In Pathobiology, 5:197-229, 1975.
8. Craighead, J.E.: Virus Induced Insulinitis in Experimental Animal Models. In Immunological Aspects of Diabetes Mellitus, Acta Endocrin., A. Lindgren & Söner, Molndal, 1976.
9. Craighead, J.E.: Viral Diabetes, In The Diabetic Pancreas, B. Volk and K. Wellman, eds., Plenum Publishing, New York, 1977.
10. Craighead, J.E.: Cytopathology in Diagnostic Virology. In Diagnosis of Viral Infections: The Role of the Clinical Laboratory, Lenette, D.A., Specter, S. and Thompson, K.D., eds., University Park Press, Baltimore, 1979.
11. Craighead, J.E.: The Pathology of Viral Diabetes Mellitus (DM). In Secondary Diabetes, Podolsky, S. and Viswanathan, M., eds., Raven Press, New York, 1980.
12. Craighead, J.E.: The Possible Role of Viruses in the Etiology of Diabetes Mellitus. In Diabetes Mellitus: A Pathophysiologic Approach to Clinical Practice, Marliss, E. and Assan, R., eds., John Wiley & Sons, New York, 1980.
13. Craighead, J.E.: Experimental Models of Juvenile Onset (Insulin-Dependent) Diabetes Mellitus. In The Pancreas, IAP Monograph, Williams and Wilkins, Baltimore, 1980.
14. Craighead, J.E.: Comments on Presentations Concerned with Environmental Carcinogenesis - Pulmonary Disease. In Topics in Environmental Pathology, Vol. 1, Hill, R.B. and Terzian, J.A., eds., UAREP, Bethesda, 1980.
15. Mossman, B.T., Adler, K.B. and Craighead, J.E.: Cytotoxic and proliferative changes in tracheal organ and cell cultures after exposure to mineral dusts. (Chpt. 28) In The In Vitro Effects of Mineral Dusts, Brown, R.C., Chamberlain, M., Davies, R. and Gormley, I.P., eds., Academic Press, London, pp. 241-250, 1980.
16. Mossman, B.T. and Craighead, J.E.: Comparative Co-carcinogenic Effects of Kaolin, Hematite, Carbon and Crocidolite Asbestos in Implanted Tracheal Organ Cultures. In Inhaled Particles, Volume 5, Pergamon Press, London, 1982, p. 572.
17. Craighead, J.E., MacPherson, B.R., Wilson, G.L., D'Andrea, S.J. and Chase, M.W.: Viral Diabetes: Factors Influencing the Severity of the Insular Lesion in Experimental Murine Disease. In Etiology and Pathogenesis of Insulin-Dependent Diabetes Mellitus, Martin, J.M., Ehrlick, R.M., Holland, F.J., eds., Raven Press, New York, 1981.
18. Craighead, J.E.: Persistent Viral Infections of Man. Current Topics in Inflammation and Infection, IAP Monograph, Williams and Wilkins, Baltimore, 1982.
19. Mukai, N., Craighead, J.E., Iwo, K., Kobayashi, M., Mukai, S., Posneroy, M., and Solish, S.: Neuromicroangiopathy in encephalomyocarditis (EMC) virus-induced diabetic mice. In Progress in Neuropathology, Vol. 3, Zimmerman, H.M., ed., Raven Press, New York, 1983.

20. Mossman, B.T. and Craighead, J.E.: Mechanisms of asbestos and nonasbestosiform particles and fibers in bronchogenic carcinoma. In Health Issues Related to Metal and Nonmetallic Mining. Butterworth Publishers, Boston, 1983.
21. Mossman, B.T., Eastman, A., Landesman, J.M., Bresnick, E. and Craighead, J.E.: Interactions of asbestos and polycyclic aromatic hydrocarbons (PAH) in carcinogenesis of the respiratory tract. In Occupational Lung Disease. Gee, J.B., Morgan, W.K., Brooks, S.M., eds. Raven Press, New York, 1985.
22. Craighead, J.E. and Juliano, E.B.: Asbestos-Associated Diseases. Can the Issues be Resolved in the Courtroom? In The Pathologist and the Environment, IAP Monograph. Williams and Wilkins, Baltimore, 211-221, 1985.
23. Craighead, J.E.: Viral Diabetes. In The Diabetic Pancreas, second edition. B. W. Volk and E. R. Arquilla, eds., Plenum Publishing, New York, 1985.
24. Mossman, B.T. and Craighead, J.E.: Asbestos Workers, In: The Surgeon General's Report, 1985.
25. Craighead, J.E. and Mossman, B.T.: Pathogenesis of Mesothelioma. In: Asbestos-Related Malignancy. Antman, K. and Aisner, J., eds., Grune and Stratton, New York, 1987.
26. Mossman, B.T. and Craighead, J.E.: Mechanisms of Asbestos-Associated Bronchogenic Carcinoma. In Asbestos-Related Malignancy. Antman, K. and Aisner, J., eds., Grune and Stratton, New York, 1987.
27. Craighead, J.E.: Diabetes. In Textbook of Pathology. Rubin, E. and Farber, J.L., eds., J.B. Lippincott, Inc., Philadelphia, 1988.
28. Craighead, J.E.: The Pathogenetic Basis for Type I Diabetes Mellitus. In Advances in Pathology. Fenoglio-Preiser, C., and Weinstein, R.S., eds., Year Book Medical Publishers, Inc. 1:157-176, 1988.
29. Craighead, J.E.: Pathological features of pulmonary disease due to silicate dust inhalation. In: Health Related Effects of Phyllosilicates, ed. Bignon, J. NATO Scientific Affairs Division. Springer-Verlag. 179-190, 1990.
30. Craighead JE, Treistad RL: The role of the academic pathologist in environmental and occupational health education. In: Environmental and Occupational Disease: as presented at a State-of-the-Art Conference for Pathology Educators. Sugarbush Ian, Warren, VT (October 18-19, 1991).
31. Craighead JE: Inorganic Particulates in the Lung. In: Handbook of Hazardous Materials. Corn, M. ed., Academic Press, Inc., San Diego, CA, 1993.
32. Craighead JE: Environmental and Occupational Aspects of Pulmonary Disease. In: Pathology of Pulmonary Disease. Saldana, M., ed., J.B. Lippincott Company, Philadelphia, PA, 1994, pp. 883-888.
33. Craighead JE and Kane AB: The Pathogenesis of Malignant and Nonmalignant Serosal Lesions in Body Cavities Consequent to Asbestos Exposure. In: The Mesothelial Cell and Mesothelioma. M.C. Jaurand and J. Bignon, eds. (Vol. 78), Marcel Dekker, Inc., New York, pp. 79-102, 1994.
34. Craighead JE and Gibbs AR: Injury caused by environmental occupational exposure to particulates. In: Anderson's Pathology, 10th edition (in press).
35. Craighead JE: Indoor air quality and pollution. In: The Pathology of Environmental and Occupational Disease. Mosby YearBook, Inc., St. Louis, 1995.
36. Craighead JE: Inorganic and organic dust pollutants. In: The Pathology of Environmental and Occupational Disease. Mosby YearBook, Inc., St. Louis, 1995.

37. Craighead JE: Alimentary and nutritional excesses and deficiencies. In: The Pathology of Environmental and Occupational Disease. Mosby YearBook, Inc., St. Louis, 1995.
38. Craighead JE: Carcinogenesis. In: The Pathology of Environmental and Occupational Disease. Mosby YearBook, Inc., St. Louis, 1995.
39. Craighead, JE: Airways and Lung. In: The Pathology of Environmental and Occupational Disease. Mosby YearBook, Inc., St. Louis, 1995.
40. Craighead, JE: Reproductive system. In: The Pathology of Environmental and Occupational Disease. Mosby YearBook, Inc., St. Louis, 1995.
41. Craighead, JE: Pathogenic considerations regarding disease related to silica dust exposure [Chpt. 1], In: Silica and Silica-Induced Lung Diseases, pp. 3-6; CRC Press, Inc., Boca Raton, FL, 1995.

#### Abstracts

1. Shelokov, A.E., Craighead, J.E. and Brody, J.: Type 2 poliovirus infection and disease in Panama City. *J. Clin. Invest.* 39:1028, 1960.
2. Craighead, J.E., Peralta, P.H. and Murnane, T.G.: Oral infection of swine with the encephalomyocarditis (EMC) virus. *Fed. Proc.* 20:446, 1961.
3. Craighead, J.E.: Pathogenicity of the r and r' variants of encephalomyocarditis (EMC) virus. *Fed. Proc.* 24:1063, 1963.
4. Craighead, J.E.: Experimental infection of newborn mice with parainfluenza type 3 virus. *Bacteriol. Proc.* 104:1965.
5. Craighead, J.E., Kanich, R.E. and Damman, J.G.: Cytomegalovirus infections in recipients of renal homotransplants. *J. Clin. Invest.* 44:1038, 1965.
6. Collins, J., Craighead, J.E. and Brooks, J.: The rationale for total pancreatectomy in carcinoma of the pancreas. *Trans. 46th Ann. Meet. New Eng. Surg. Soc.* 46:58-60, 1965.
7. Craighead, J.E.: Morphologically apparent and inapparent cytomegalovirus infections. *Am. J. Pathol.* 48:44a, 1966.
8. Craighead, J.E.: Viral induction of diabetes mellitus in mice. *Am. J. Pathol.* 52:56, 1968.
9. Craighead, J.E.: Virus cytopathology in the mucosa of the respiratory tract. *Am. J. Pathol.* 55:44a-45a, 1969.
10. Craighead, J.E. and Strinke, J.: Temporary diabetes in mice caused by encephalomyocarditis virus. *Clin. Res.* 17:380, 1969.
11. Kanich, R.E. and Craighead, J.E.: Role of lysosomes in the pathogenesis of parainfluenza type 3 virus-induced lesions. *Am. J. Pathol.* 59:48a, 1970.
12. Kanich, R.E. and Craighead, J.E.: The relationship of inclusion bodies to the intracellular maturation of cytomegalovirus. *Am. J. Pathol.* 62:84, 1971.
13. Kanich, R.E., Keister, J.B. and Craighead, J.E.: Renal lesion associated with virus-induced diabetes mellitus in mice. *Am. J. Pathol.* 66:60a, 1972.

14. Craighead, J.E.: Workshop on viral infection and diabetes mellitus in man. *J. Infect. Dis.* 125:568-570, 1972.
15. Brody, A.R. and Craighead, J.E.: Pathogenesis of pulmonary lesions in experimental murine cytomegalovirus (MCMV) infection. *Am. J. Pathol.* 70:461, 1973.
16. Brody, A.R. and Craighead, J.E.: Cytoplasmic inclusions in pulmonary macrophages of cigarette smokers. *Am. Rev. Respir. Dis.* 109:726, 1974.
17. Craighead, J.E. and Brody, A.R.: Monocyte-mediated glomerulonephritis in cytomegalovirus-infected mice. *Am. J. Pathol.* 78:61a, 1975.
18. Brody, A.R., Davis, G.S., Landis, J.N., Graham, W.G. and Craighead, J.E.: Intrapulmonary migration of mononuclear cells in human interstitial pneumonitis. *Am. J. Pathol.* 78:8a, 1975.
19. Davis, G.S., Brody, A.R., Landis, J.N., Graham, W.G., Craighead, J.E. and Green, G.M.: Prediction of inflammatory activity in interstitial pneumonitis by bronchofiberscopic pulmonary lavage. *Clin. Res.* 22:716a, 1975.
20. Davis, G.S., Landis, J.N., Brody, A.R., Graham, W.G., Craighead, J.E. and Green, G.M.: Characteristics of diffuse lung disease reflected by pulmonary lavage. *Am. Rev. Respir. Dis.* 111:933, 1975.
21. Mossman, B.T., Ley, B.W. and Craighead, J.E.: Effects of hydrocortisone on respiratory epithelium in organ culture. *In Vitro* 10:373, 1975.
22. Heintz, N.H., Mossman, B.T. and Craighead, J.E.: Nutritional factors promoting squamous metaplasia in hamster tracheal explants. *In Vitro* 10:373, 1975.
23. Davis, G.S., Brody, A.R., Landis, J.N., Graham, W.G., Craighead, J.E. and Green, G.M.: Quantitation of inflammatory activity in interstitial pneumonitis by bronchofiberscopic pulmonary lavage. *Chest* 69:265-266, 1976.
24. Mossman, B.T. and Craighead, J.E.: Interaction of crocidolite asbestos with the mucociliary epithelium of the respiratory tract. *Proc. Am. Assoc. Cancer Res.* 17:88, 1976.
25. Ezerman, E.B., Adler, K.B. and Craighead, J.E.: Isolation of epithelial cells from hamster tracheal respiratory epithelium. *In Vitro* 12:319, 1976.
26. Mossman, B.T. and Craighead, J.E.: Response of the differentiated respiratory tract mucosa to environmental dusts. *Am. J. Pathol.* 86:701, 1977.
27. Adler, K.B., Mossman, B.T. and Craighead, J.E.: Interaction of carbon particles with rodent tracheal epithelium in organ culture. *In Vitro* 13:202, 1977.
28. Mossman, B.T. and Craighead, J.E.: Induction of epithelial neoplasms in hamster tracheal grafts with 3-methylcholanthrene (3-MC) coated Lycra fibers. *Proc. Am. Assoc. Cancer Res.* 18:222, 1977.
29. Mossman, B.T. and Craighead, J.E.: Inhibition of asbestos-induced metaplastic changes and incorporation of tritiated thymidine in hamster tracheal organ cultures with addition of the Vitamin A analog, retinyl methyl ether. *Proc. Am. Assoc. Cancer Res.* 19:93, 1978.
30. Adler, K.B., Brody, A.R. and Craighead, J.E.: Ultrastructural association of microtubules and microfilaments with mucin granules in porcine tracheobronchial goblet cells. *Am. Rev. Respir. Dis.* 117:307, 1978.
31. Adler, K.B. and Craighead, J.E.: Function of microtubules and microfilaments in the secretion of mucin by porcine tracheobronchial tissue in organ culture. *Fed. Proc.* 37:266, 1978.

32. Brody, A.R., Visco, G.P. and Craighead, J.E.: Inorganic dust in the lungs of cigarette smokers. *Am. Rev. Respir. Dis.* 117:222, 1978.
33. Winn, W.C., Jr., Glavin, F.L., Perl, D.P. and Craighead, J.E.: The pathology of Legionnaires' Disease. A review of fatal cases from the Vermont outbreak. *Am. Rev. Respir. Dis.* 117:5194, 1978.
34. Adler, K.B., Brody, A.R. and Craighead, J.E.: Association of microtubules and microfilaments with mucin granules in tracheal goblet cells: their possible role in exocytosis. *Proc. 9th Intern. Cong. Elect. Microsc.* 2:500, 1978.
35. Mossman, B.T. and Craighead, J.E.: Induction of neoplasms after implantation of hamster trachea exposed in vitro to 3-methylcholanthrene on ferric oxide. *Proc. Am. Assoc. Cancer Res.* 20:921, 1979.
36. Mossman, B.T., Bradley, B.J. and Craighead, J.E.: Comparative cytotoxicity of chrysotile asbestos in hamster tracheal epithelial cells. *Fed. Proc.* 38:1352, 1979.
37. Mossman, B.T., Halleron, P.A. and Craighead, J.E.: Stimulation of Na<sup>+</sup>-K<sup>+</sup> ATPase activity in tracheal epithelial cells after exposure to crocidolite asbestos. *J. Cell. Biol.* 83:288a, 1979.
38. Bradley, B.J., Bellomo, S.C. and Craighead, J.E.: Interaction of crocidolite asbestos with human erythrocytes. *Fed. Proc.* 38:1352, 1979.
39. Vallyathan, N.V. and Craighead, J.E.: Pulmonary pathology of workers exposed to non-asbestiform talc with minimal amounts of quartz. *Am. Rev. Respir. Dis.* 119:240, 1979.
40. Adler, K.B., Hardwick, D.H. and Craighead, J.E.: Mechanisms of mucin secretion by porcine tracheal goblet cells. *Am. Rev. Respir. Dis.* 119:285, 1979.
41. Adler, K.B., Evans, J.N., Neacy, W.C. and Craighead, J.E.: Contractile proteins in interstitial pulmonary fibrosis. *Am. Rev. Respir. Dis.* 119:367, 1979.
42. Adler, K.B., Vallyathan, N.V., Craighead, J.E. and Evans, J.N.: Morphological and physiological characterization of contractile properties of rabbit peripheral lung. *Am. Rev. Respir. Dis.* 119:285, 1979.
43. Mossman, B.T. and Craighead, J.E.: Induction of tumors in hamsters after implantation of tracheal organ cultures exposed to crocidolite asbestos and 3-methylcholanthrene. *Proc. Am. Assoc. Cancer Res.* 21:76, 1980.
44. Adler, K.B. and Craighead, J.E.: Cellular mechanisms of respiratory tract mucin secretion. Eighth Internat. Congr. on Cystic Fibrosis, Ia, 1980.
45. Mossman, B.T., Landesman, J.M. and Craighead, J.E.: Asbestos stimulates ornithine decarboxylase (ODC) activity in hamster tracheal epithelial cells. *J. Cell Biol.* 87:307a, 1980.
46. Wilson, G.L., Mossman, B.T. and Craighead, J.E.: Diabetogenic effects of chlorozotocin on murine pancreatic beta cells in vivo and in vitro. *J. Cell Biol.* 87:327a, 1980.
47. Adler, K.B., Hardwick, D.H. and Craighead, J.E.: Stimulatory effects of cholera toxin on secretion of mucin by tracheal explants in organ culture. *J. Cell Biol.* 87:307a, 1980.
48. Mossman, B.T., Woodworth, C.D., Bradley, B.J., Chates, M.W. and Craighead, J.E.: Interactions of minerals with membranes. Paper presented at the Clay Minerals Society Meeting, Waco, TX, October, 1980.
49. Mossman, B.T., Landesman, J.M. and Craighead, J.E.: Asbestos exhibits properties of a classical tumor promoter on hamster tracheal epithelial cells. *Proc. Am. Assoc. Cancer Res.* 22:129, 1981.

50. Mossman, B.T., Wilson, G.L. and Craighead, J.E.: Chlorozotocin is diabetogenic in hamsters and mice. *Proc. Am. Assoc. Cancer Res.* 22:235, 1981.
51. Mukai, N., Craighead, J., Iwano, K., Bellomo, T., Kobayashi, M. and Pomeroy, M.: Cerebral and retinal microangiopathy in encephalomyocarditis (EMC) virus-induced diabetic mice. *J. Neuropath. Exp. Neurol.* 40:345, 1981.
52. Woodworth, C.D., Mossman, B.T. and Craighead, J.E.: Comparative interactions of asbestos with normal mucociliary epithelium and squamous respiratory epithelium. Paper presented at the Sixth Regional Cancer Research Symposium, 1981.
53. Winn, W.C., Jr., Davis, G.S., Gump, D.W., Beary, H.N. and Craighead, J.E.: The pathogenesis of *Legionella pneumophila pneumonia* after intratracheal inoculation of guinea pigs. *Lab. Invest.* 44:83A-84A, 1981.
54. Davis, G.S., Winn, W.C., Jr., Gump, D.W., Craighead, J.E. and Beary, H.N.: Legionnaires' pneumonia in guinea pigs and rats produced by aerosol exposure. *Clin. Res.* April, 1982.
55. Adler, K.B., Winn, W.C., Jr., Hardwick, D.H. and Craighead, J.E.: Stimulation by bacterial products of mucin secretion in rodent tracheal explants. *CF Club Abstracts.* 22:91, 1981.
56. Adler, K.B., Winn, W.C. and Craighead, J.E.: Effects of bacterial products on secretion of mucin by rodent trachea in vitro. *Proc. 24th Aspen Lung Conference* 21, 1981.
57. Mossman, B.T., Adler, K.A. and Craighead, J.E.: Mechanisms of hypersecretion in rodent tracheal explants after exposure to chrysotile asbestos. *Proc. 24th Aspen Lung Conference* 13, 1981.
58. Craighead, J.E. and Emerson, R.J.: Slateworker's pneumoconiosis: Lung disease due to a mixture of slate and silicate dust. *Silica, Silicosis and Cancer Controversy in Occupational Medicine. Cancer Research Monograph* 2:533, 1986.
59. Mossman, B.T., Shatos, M.A., Marsh, J.P., Doherty, J.M., Craighead, J.E., Hernenway, D. and Cassell, G.: Rapid development of asbestosis in rats after inhalation of crocidolite. *Am. Rev. Respir. Dis.* 129:A148, 1984.
60. Emerson, R.J. and Craighead, J.E.: Slateworker's pneumoconiosis: pathology and mineralogy. *Am. Rev. Respir. Dis.* 129:A156, 1984.
61. Akley, N.J., Mackay, A. and Craighead, J.E.: In vitro growth characteristics of asbestos-induced diffuse malignant mesotheliomas. *Fed. Proc.* 45:949, 1986.
62. Gould, L., Welner, C., Akley, N., Mackay, A., and Craighead, J.E.: Karyology and DNA content of asbestos-induced mesotheliomas (DMM) in situ and after culture in vitro. *Fed. Proc.* 45:949, 1986.
63. Mackay, A., Akley, N., Tracy, R., and Craighead, J.E.: Asbestos-induced peritoneal tumors of the rat resemble human diffuse malignant mesotheliomas (DMM) in their synthesis of intermediate filament (IF) proteins. *Fed. Proc.* 45:939, 1986.
64. Moore, A., Ersbiler, W.B., Grossman, H., Hess, U., Ngowi, F. and Craighead, J.E.: African Kaposi's sarcoma: Immunologic profile of sixteen patients. *ASCO Annual Meeting, Houston, TX, 1985.*
65. Craighead, J.E.: Kaposi's sarcoma in equatorial East Africa: A disease of altered immune regulation? 1986 *Int. Conf. on AIDS, Paris, 1986.*
66. Libbus, B. and Craighead, J.E.: Specific chromosomal changes characterize most asbestos-induced mesotheliomas in rats. *Fourth International Workshop on the Effects of Mineral Dusts on Cells, Sherbrooke, Quebec, 1988.*

67. Craighead, JE, Calore, JD, Corson, JM, Maddox, JC and Sporn, MB. The pathogenetic role of growth factors in human and rat malignant mesotheliomas (MM). International Conference "Mesothelial Cell and Mesothelioma. Past, present and future" Paris, September 30, 1991.
68. Craighead, JE, Fan H: Genetic influences on the development of asbestos-induced malignant mesotheliomas (MM) in rats. International Conference "Mesothelial Cell and Mesothelioma. Past, present and future" Paris, September 30, 1991.
69. Craighead, JE, and Corson, JM: Role of polypeptide growth factors in growth and dissemination of human and experimental rat malignant mesothelioma (MM). International Academy of Pathologists, New Orleans, March, 1993.