

CURRICULUM VITAE

JOHN E. CRAIGHEAD, M.D.

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

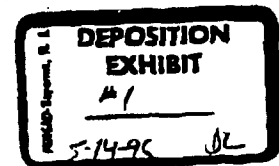
Education: University of Utah, B.S., 1952
University of Utah, M.D., 1956

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- Professor of Pathology, 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 for Cancer Research
American Association of Pathologists
American Association of Clinical Pathologists
American Thoracic 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, 1967)



Chittenden County Medical Society
 Vermont Medical Society
 American Society for Virology

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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 Sohlberg 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- 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
 1993- Advisory Committee, Registry of Comparative Pathology, Armed Forces Institute of Pathology

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

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- 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- Advisory Council, Registry of Comparative Pathology

Editorial Boards:

Laboratory Investigation
 Archives of Pathology and Laboratory Medicine
 Human Pathology
 American Journal of Pathology (1980-1992)

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. Mumane, 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., Mumane, 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.* 114:500-503, 1963.

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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 Dammin, 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.* 47:235-241, 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., Hanshaw, 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.* 1:982-991, 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.* 52:287-200, 1968.
31. Tegtmeyer, 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. Tegtmeyer, P.J., Ming, P.M.L. and Craighead, J.E.: Cytological studies on cytomegalovirus-infected mouse cells. *Arch. für 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.* 10:766-775, 1972.
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 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

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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. 477-485, 1976.
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 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 tracheal epithelium in organ culture. II. Nutritional influences. *Proc. Soc. Exp. Biol. Med.* 157:500-505, 1978.
 67. Brody, A.R., Kellcher, P.C. and Craighead, J.E.: A mechanism of exudation through intact alveolar epithelial

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- 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., Vallyathan, 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., Andres, 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., Weston, J.T., Craighead, J.E., Lacy, P.E., Wissler, 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.

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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 mineral pneumoconiosis. *Pathol. Annu.* 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, 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., Tihen, 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.
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105. Vallyathan, 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., Vallyathan, 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. 106:542-597, 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 Beaty, 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 Beaty, H.N.: Legionnaires' pneumonia after intratracheal inoculation of guinea pigs and rats. Lab. Invest. 47:568-578, 1982.
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