

CURRICULUM VITAE

Jerrold L. Abraham, M.D.

Personal Data: Born November 5, 1944, Los Angeles, California
Married, two daughters and two sons

Education:

Massachusetts Institute of Technology, Cambridge, Mass., B.S. (Life Sciences) 1966

University of California, San Francisco, School of Medicine, M.D., 1970

Research and Professional Experience:

Undergraduate Research on Blood Rheology, Department of Chemical Engineering, (Prof. E.P. Merrill), Massachusetts Institute of Technology, Cambridge, Mass., 1963.

Summer Research Associate, Biochemistry of Aggregation of Cells of Marine Sponges (with Dr. T. Humphreys), Marine Biological Laboratories, Woods Hole, Mass., 1966 and 1967.

Internship in Pathology, Childrens' Hospital Medical Center, Boston, Mass., 1970-1971.

Residency in Pathology, Beth Israel Hospital, Boston, Mass., 1971-1972.

Pathologist, Appalachian Laboratory for Occupational Respiratory Diseases, National Institute for Occupational Safety and Health, Morgantown, W. Va., 1972-1974.

Selective Service Obligation: USPHS Surgeon (Lt. Commander)

Instructor, Department of Pathology, School of Medicine, West Virginia University, Morgantown, W. Va., 1972-1975.

Acting Chief, Pathology Section, Appalachian Laboratory for Occupational Respiratory Diseases, NIOSH, CDC, Morgantown, W. Va., 1974. Chief, Pathology Section, ALFORD, 1974-1975.

Assistant Professor in Residence, Department of Pathology, University of California, San Diego, School of Medicine, La Jolla, CA., 1975-1983.

Associate Professor, Dept. of Pathology, (surgical and autopsy pathology, teaching and research) SUNY Health Science Center, Syracuse, NY, 1983-1990.

Professor of Pathology, (surgical and autopsy pathology, teaching and research) SUNY Health Science Center, Syracuse, NY, 1990-Present.

Director of Environmental and Occupational Pathology, Department of Pathology, SUNY Health Science Center, Syracuse, NY, 1984-Present.

Acting Director of Autopsy Service, March - November, 1985.

Course Director, 2nd year medical student pathology course, 1990 - 1993.

Chair, Departmental Promotions Committee, 1997- Present

Professor of Preventive Medicine, Health Science Center, Syracuse, NY, 1993-1997.

Professor of Family Medicine, Health Science Center, Syracuse, NY, 1997- Present

Licensure and Certification:

West Virginia Medical License #9655, 1972.
National Board of Medical Examiners, Certificate #137253, 1972.
Limited Medical Licensure in Massachusetts during Postgraduate Training, 1970-1972.
Board Certified in Anatomic Pathology, American Board of Pathology, Fall, 1974.
California Medical License #G-30997, 1975.
New York Medical License #154025-1, 1983.

Honors, Awards, Grants:

USPHS Research Training Fellowship with Dr. Warren Levinson, University of California, San Francisco, 1969.
Dean's Prize in Research for work on "Cell Surface Changes During Viral Oncogenesis in vitro", University of California, San Francisco, Medical School, 1970.
Academic Senate grant for research on "Ion Microprobe Analysis of Human Tissues", University of California, San Diego, 1976-1977.
Academic Senate grant for research on "In vivo Airway Epithelial Proliferative Response to Particulate Materials", University of California, San Diego, 1977-1978.
NIH, National Heart and Lung Institute, Young Investigator Pulmonary Research Grant for research on "SEM and X-Ray Analysis in Human Pulmonary Pathology", 1976-1978.
Academic Senate grant for research on "Laser Raman Spectroscopy of Human Tissues", 1979-1980.
California Air Resources Board grant for study on "Particulates in Human Lungs", 1980-1982.
NIH, grant for study on: "Radiologic Contrast Medium in Ischemic Myocardial Injury" (C. Higgins, P.I.).
NIH, grant for study on: "Mouse Pulmonary Adenoma Carcinogenesis Testing" (M. Shimkin, P.I.).
NIH, National Pulmonary Faculty Training Grant (K. Moser, P.I.).
U.S. Dept. of Health and Human Services, grant for: Curriculum Development in Occupational Medicine (J. Stokes, P.I.).
NIH, Pathology CORE, Pulmonary SCOR, Acute lung injury (K. Moser, P.I.)
President's Award for Research, 1988, SUNY Health Science Center
Director, Pathology Core Laboratory for NY Occupational Health Clinics Network, 1998-

Professional Societies, Committee Services, Etc.:

American Association for the Advancement of Science, 1970-
American Medical Association, 1972-1976
American Thoracic Society, 1976-
International Academy of Pathology; US-Canadian Academy of Pathology 1975-
Society of Toxicologic Pathologists, 1976-
California Lung Association Research and Medical Education Fund, Research Subcommittee, 1977-1983, Curator,
Averill A. Liebow Pulmonary Pathology Collection, 1977-1983.

Professional Societies, Committee Services, Etc. (Cont'd)

American Lung Association, San Diego

Environmental Health Task Force, 1977-1983. Chairman, 1978, 1980 . Member, Board of Directors, 1978-1983.
Scanning Electron Microscopy: Assistance with Annual International Scanning Electron Microscopy Symposium as reviewer and advisor, 1973-1997.

Reviewer for articles for American Review of Respiratory Disease, Journal of Histochemistry and Cytochemistry, Archives of Pathology and Laboratory Medicine, Science, JAMA, Analytical Chemistry, American Journal of Pathology.

Consulting Editor, Archives of Environmental Health.

Member, Health Systems Agency Taskforce on Environment, San Diego and Imperial Counties, 1979.

Member, Faculty for Universities Associated for Research and Education in Pathology-sponsored course on Teaching of Environmental Pathology, Aspen, Colorado, August 1979.

Member, Faculty for ASCP/CAP Symposium on Environmental Pathology, Las Vegas, Oct., 1979.

Member of Environmental Health Committee, American Lung Association of California

Reviewer for NIH, NSF, VA grants

Member, NIOSH/CAP Task Force on Pathology Standards for Asbestos Related Disease. 1979-82.

Member of NIOSH/CAP Task Force on Pathology Standards for Silica and Silicate Related Disease. 1987-88

Member, CAP Environmental and Iatrogenic Pathology Committee.

Fellow of the College of American Pathologists, 1982 -

Consultant Pathologist, Veterans Administration Medical Center, San Diego, 1975-1983.

New York Academy of Sciences, 1983 -

Member of American Association of Pathologists, 1985 -

Member, International Commission on Occupational Health, 1985 -

Member, Task Force for a New Curriculum, SUNY Upstate Medical Center, 1985.

Member of Advisory Board, New York State Program in Occupational Health, 1986.

Co-course director for second year medical student pathology course, 1987 - 1990; Course Director 1990-93.

Organizer and coordinator for occupational medicine section of second year clinical medicine course 1986-

Member, American Thoracic Society: Tremolite Committee, 1988-90; Silica Committee, 1994-96.

Member, Advisory Board, Central NY Occupational Health Clinical Center, 1988- ; Chairperson, 1994-2001.

Member, Advisory Committees for NY Indoor Environmental Quality Center (NYIEQ) and NY Environmental Quality Systems Center (NYEQS), 2001-

Publications

1. Abraham, J.L. Dermatoglyphics and Reye's Syndrome. Lancet 1:969, 1971.
2. DeNee, P.B., J.L. Abraham and A.H. Gelderman. Methods for a scanning electron microscope study of coal workers' pneumoconiosis. In "Scanning Electron Microscopy/1973" (Johari, O. and I. Corvin, eds.), p. 411-418. I.I.T. Research Institute, Chicago, 1973.

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3. Abraham, J.L. and P.B. DeNee. Scanning electron microscope histochemistry using backscatter electrons and metal stains. *Lancet* 1:1125, 1973.
4. Abraham, J.L., P.B. DeNee and A.H. Gelderman. Specific metal staining of biological tissues for the SEM using backscattered electron or specimen current imaging. In "Proceedings Electron Probe Analysis Society of America", Article 67, August, 1973.
5. Burrell, R., D.K. Flaherty, P.B. DeNee, J.L. Abraham and A.H. Gelderman. The effect of lung antibody on normal lung structure and function. *Am. Rev. Resp. Dis.*, 109:106-113, 1974.
6. Abraham, J.L. and P.B. DeNee. Biomedical applications of backscattered electron imaging -- One year's experience with SEM histochemistry. In "Scanning Electron Microscopy/1974" (Johari, O. and I. Corvin, eds.), p. 251-258. I.I.T. Research Institute, Chicago, 1974.
7. DeNee, P.B., J.L. Abraham and P.A. Willard. Histochemical stains for the scanning electron microscope - Qualitative and semi-quantitative aspects of specific silver stains. In "Scanning Electron Microscopy/1974" (Johari, J. and I. Corvin, eds.), p. 259-266. I.I.T. Research Institute, Chicago, 1974.
8. DeNee, P.B., J.L. Abraham, A.H. Gelderman and G.B. Shaw. SEM identification of biogenic silica in jute: Silica in human lung following exposure to burning jute. Microbeam Analysis Society, Ottawa, Canada, Article 10, July, 1974.
9. DeNee, P.B. and J.L. Abraham. SEM backscattered electron imaging -- An aid to dust and particulate characterization. Microbeam Analysis Society, Ottawa, Canada, Article 4, July, 1974.
10. Guidotti, T.L., J.L. Abraham and P.B. DeNee. Asbestos exposure and cancer of the larynx. *West. J. Med.*, 122:75, 1975 (letter).
11. DeNee, P.B., J.L. Abraham and E.R. Walker. SEM characterization of respirable dust in lung tissue using ashing and digestion techniques. Microbeam Analysis Society, Proc. 10th Annual Conference, p. 51A-51E. Las Vegas, August, 1975.
12. DeNee, P.B. and J.L. Abraham. Backscattered electron imaging: Application of atomic number contrast - in "Principles and Techniques of Scanning Electron Microscopy" (Hayat, M.A., ed.), Van Nostrand Reinhold Co., New York, p. 144-180, 1976.
13. Abraham, J.L., R.M. Wagner, K. Miyai, R. Bullock and P.J. Friedman. Choice of imaging modes in SEM study of respirable radiographic contrast medium: Tantalum particles in the lung. In "Scanning Electron Microscopy/1976" (Johari, O., ed.), I.I.T. Research Institute, Chicago, Vol. II, p. 691-698, 1976.
14. Abraham, J.L., R. Rossi, N. Marquez and R.M. Wagner. Ion microprobe mass analysis of beryllium in situ in human lung: Preliminary results. In "Scanning Electron Microscopy/1976" (Johari, O., ed.). Vol. II, p. 501-506. I.I.T. Research Institute, Chicago, 1976.
15. Miyai, K., J.L. Abraham, D.S. Linthicum and R.M. Wagner. Scanning electron microscopy of hepatic ultrastructure: Secondary, backscattered and transmitted electron imaging. *Lab. Invest.*, 35:369-376, 1976.
16. Guidotti, T.L., J.L. Abraham, P.B. DeNee and J.R. Smith. Arc Welder's pneumoconiosis: Application of advanced SEM. *Arch. Environ. Health*, 33:117-124, 1978.

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17. Abraham, J.L. SEM as an aid in diagnosis - An overview. In "Scanning Electron Microscopy/1977" (Johari, O., ed.) p. 119-128. I.I.T. Research Institute, Chicago, 1977 (Vol. II).
18. Abraham, J.L. Legionnaire's Disease. *The Lancet*. 2:148, 1977 (letter).
19. Abraham, J.L. Recent advances in pneumoconiosis - The pathologist's role in etiologic diagnosis. In "The Lung" (Thurlbeck, W.T. and M. Abell, eds.), p. 96-137. Williams & Wilkins Co., Baltimore, 1978.
20. Abraham, J.L. In Hearings before the Subcommittee on Consumer Protection and Finance of the Committee on Interstate and Foreign Commerce (U.S. House of Representatives, November 23 & 24, 1976). Serial No. 94-159, 138, U.S. Government Printing Office, Washington, D.C. 1977).
21. Abraham, J.L. Multiple imaging and microanalytical modes for biological specimens - Electron and ion beam studies. *Proc. Microbeam Analysis Society, Boston*, Article 11, August, 1977.
22. Abraham, J.L. Multiple imaging and microanalytical modes for biological specimens - Electron and ion beam studies. In transactions of the 1977 International Conference on X-ray Optics and Microanalysis (Beaman, D., R. Ogilvie and D. Wittry, eds.). (1977) pp. 430-433.
23. Rudolph, R., J.L. Abraham, T.R. Vecchione, S. Guber and M. Woodward. Myofibroblasts and free silicon around breast implants. *Plastic and Reconstructive Surgery*, 62:185-196, 1978.
24. Wickham, M.G., R. Rudolph and J.L. Abraham. Silicon identification in prosthesis associated fibrous capsules. *Science* 199:437-439, 1978.
25. McEuen, D. and J.L. Abraham. Particulate concentrations in pulmonary alveolar proteinosis. *Environ. Res.* 17:334-339, 1978.
26. Sherwin, R.P., M.L. Barman and J.L. Abraham. Silicate pneumoconiosis of farm workers. *Lab. Invest.*, 40:576-582, 1979.
27. Abraham, J.L. and E.S. Etz. Molecular microanalysis of pathological specimens in situ with a Laser-Raman microprobe. *Science*, 206:716-718, 1979.
28. Abraham, J.L. Microanalysis of Human Granulomatous Lesions. *Proceedings 8th International Conf. on Sarcoidosis*, edited by W. Jones Williams and B.H. Davies. Alpha Omega Publishing, Ltd., Cardiff, 1980, pages 38-46.
29. Abraham, J.L. Diagnostic applications of scanning electron microscopy and microanalysis in pathology. *Israel J. Med. Sci.*, 15:716-723, 1979.
30. Abraham, J.L. and C. Brambilla. Particle size for differentiation between inhalation and injection pulmonary talcosis. *Environ. Res.* 21:94-96, 1980.
31. Smith, G., J.L. Abraham, J. Theiss and M.B. Shimkin. SEM surface morphometry of type II alveolar cell response to urethane in strain A mice. In "Scanning Electron Microscopy/1979/III." p. 905-910. (Johari, O., ed.). Scanning Electron Microscopy, Inc., Chicago, 1979.
32. Abraham, J.L. Documentation of environmental particulate exposures in humans using SEM and EDXA. In "Scanning Electron Microscopy/1979/II" p. 751-766 (Johari, O., ed.). Scanning Electron Microscopy, Inc. Chicago, 1979.

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33. Brambilla, C., Abraham, J.L., Brambilla, E., Benirschke, K. and Bloor, C. Comparative pathology of silicate pneumoconiosis. *Am. J. Pathol.* 96:149-170, 1979.
34. Rudolph, R., and Abraham, J.L. Tissue effects of new silicone mammary type implants in rabbits. *Ann. Plast. Surg.* 4:14-20, 1980.
- 35.* Abraham, J.L. Analysis of Particulates in Tissues. Topics in Environmental Pathology, Vol. 1, edited by R.B. Hill and J.A. Terzian. Universities Associated for Research & Education in Pathology, Bethesda, MD., 1980, pp. 82-88.
36. Abraham, J.L., Higgins, C.B. and Newell, J. Uptake of iodinated contrast material in ischemic myocardium as an indicator of loss of cellular membrane integrity. *Am. J. Path.* 101:319-327, 1980.
37. Newell, N.D., Higgins, C.B., Abraham, J.L., Kelley, M.J., Schmidt, W.S., and Haigler, F. Computerized tomographic appearance of evolving myocardial infarctions. *Invest. Radiol.* 5:207-214, 1980.
38. Abraham, J.L. Underdiagnosis of pulmonary asbestosis. *New Eng. J. Med.* 302:464, 1980.
39. Abraham, J.L. Biomedical microanalysis--Putting it to work now in diagnostic pathology. *Scanning Electron Microscopy/1980*, 4:171-178, 1980.
40. Abraham, J.L., Barton, R.T., Hogetveit, A.C., Andersen, I. and Smith, G. Microanalysis of inorganic particles in situ in the lungs of Norwegian nickel refinery workers. In *Proceedings of the Second International Conference on Nickel Toxicology*. Brown, S.S. and Sunderman, F.W., Jr. eds. Academic Press. pp. 155-158, 1980.
41. Abraham, J.L., DeNee, P.B., Green, F.H.X., Gelderman, A.H., Willard, P. and Hando, C.: Lyophilized unfixed whole lungs for correlative roentgenologic-pathologic-microanalytic study of occupational respiratory disease. *Am. J. Forensic Med. & Path.* 1:181-185, 1980.
42. Abraham, J.L., Hertzberg, M.A. Inorganic particulates associated with desquamative interstitial pneumonia. *Chest* 80S:67S-70S, 1981.
43. Schwartz, L.W., Knight, H.D., Whittig, L.D., Malloy, R., Abraham, J.L. and Tyler, N.K. Silicate pneumoconiosis and pulmonary fibrosis in horses from the Monterey-Carmel Peninsula. *Chest* 80S:82S-85S, 1981.
44. Abraham, J.L. Open lung biopsy. *Lab. Medicine* 12:87-94, 1981.
45. Newell, J.D., Higgins, C.B. and Abraham, J.L. Uptake of iodinated contrast material by the ischemically damaged myocardial cell. *Invest. Radiol.* 17:61-65, 1982.
46. Goldbach, P.D., Mohsenifar, Z., Abraham, J.L., Young, W.I. and Merrill, W.D. Talcum powder pneumoconiosis: Diagnosis by transbronchial biopsy utilizing energy dispersive x-ray analysis. *Western J. of Medicine*, 136:439-442, 1982.
47. Spragg, R.G., Abraham, J.L. and Loomis, W.H.: Pulmonary platelet deposition accompanying acute oleic acid induced pulmonary injury. *Am. Rev. Resp. Dis.* 126:553-557, 1982.
48. Molden, D. and Abraham, J.L.: Pulmonary hypertension associated with idiopathic hemochromatosis. *Arch. Pathol. Lab. Med.* 106:328-331, 1982.
49. Herbert, A., Sterling, G., Abraham, J.L. and Corrin, B.: Desquamative interstitial pneumonia in an aluminum welder. *Human Path.* 13:694-699, 1982.
- * Republished In *Environmental Pathology: An Evolving Field*, R.B. Hill & J.A. Terzian (Eds.), Alan R. Liss, New York, 1982, pp. 229-241.

Publications (Cont'd)

50. Abraham, J.L., Spore, W.W. and Benirschke, K.: Cysticercosis of the fallopian tube, histology and microanalysis. *Human Path.* 13:665-670, 1982.
51. Craighead, J.E., Abraham, J.L., Churg, A.C., et al: The pathology of asbestos-associated diseases of the lungs and pleural cavities: diagnostic criteria and proposed grading schema. *Arch. Pathol. Lab. Med.* 106:544-597, 1982.
52. Shure, D., Abraham, J.L. and Konopka, R.: How should transbronchial biopsies be prepared and processed? *Am. Rev. Resp. Dis.* 126:342-343, 1982.
53. Mason, G.R., Abraham, J.L., Hoffman, L., Cole, S., Lippmann, M. and Wasserman, K.: Treatment of mixed-dust pneumoconiosis with whole lung lavage. *Am. Rev. Resp. Dis.*, 126:1102-1107, 1982.
54. Abraham, J.L., Andersen, M.E. and Muggli, R.Z.: Raman microprobe identification of pathologically and forensically important particles in tissue. *In* Raman Spectroscopy: Linear and Nonlinear, J. Lascombe & P.V. Huong (Eds.), John Wiley & Sons, New York, pp. 809-810, 1982.
55. Abraham, J.L. Environmental Pathology of the Lung. *In*: Environmental and Occupational Medicine, ed. W. Rom, Little, Brown & Co., 1983, pp. 123-155.
56. Raasch, F.O., Rosenberg, J.H. and Abraham, J.L.: Lead poisoning from hair spray ingestion. *Am. J. Forensic Med. & Path.* 4:159-164, 1983.
57. Singh, S., Abraham, J.L., Raasch, F., Wolf, P. and Bloor, C.M.: Diagnosis of early human myocardial ischemic damage with electron probe microanalysis. *Am. J. Forensic Med. & Path.* 4:85-91, 1983.
58. Stern, R.M., Pigott, G.H. and Abraham, J.L.: Fibrogenic potential of welding fumes. *J. Appl. Tox.*, 3:18-30, 1983.
59. Abraham, J.L. and Burnett, B.R.: Quantitative analysis of inorganic particulate burden in situ in tissue sections. *Scanning Electron Microscopy/1983*, 2:681-696, 1983.
60. Spragg, R.G., Wolf, P.L., Haghighi, P., Abraham, J.L. and Astarita, R.W.: Angiosarcoma of the lung with fatal pulmonary hemorrhage. *Am. J. Med.* 74:1072-1076, 1983.
61. Wallace, J.M., Catanzaro, A., Batcher, S., and Abraham, J.L.: A guinea pig model to study effects of persistent intrabronchial antigenic stimulation and inflammation. *Am. Rev. Resp. Dis.* 128:1077-1083, 1983.
62. Hackney, D., Slutsky, R.A., Mattrey, R., Peck, W.W., Abraham, J.L., Shabetai, R. and Higgins, C.B.: Experimental pericardial inflammation evaluated by computed tomography. *Radiology*, 151:145-148, 1984.
63. Guidotti, T.L. and Abraham, J.L.: Occupational lung diseases: recognition and evaluation in primary care. *Am. J. Fam. Practice* 29:169-176, 1984.
64. Occupational and Environmental Health Committee, ALASDIC. Taking the Occupational History, *Ann. Int. Med.* 99:641-651, 1983.
65. Abraham, J.L.: Identification and quantitative analysis of tissue particulate burden. *Ann. N.Y. Acad. Sci.*, 428:60-67, 1984.
66. Saugstad, O.D., Hallman, M., Abraham, J.L., Epstein, B., Cochrane, C. and Gluck, L.: Hypoxanthine and oxygen induced lung injury: A possible basic mechanism of tissue damage? *Ped. Res.*, 18:501-504, 1984.
67. Greenblatt, M., Alpert, L.I., Abraham, J.L.: Update on Formaldehyde. *Pathologist*, November 1984.

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68. Jackson, RM, Tucker, SB, Abraham, JL and Milns, JL. Factical cutaneous ulcers and nodules - the use of electron probe microanalysis and diagnosis. *J. Am. Acad. D.*, 11:1065-1069, 1984.
69. Travis, WD, Balogh, K and Abraham, J.L. Silicone granulomas. A review of the literature and report of 3 cases. *Human Pathology* 16:19-27, 1985.
70. Travis, WD, Balogh, K, Wolf, BC, Doos, WG, Abraham, J.L. Silicone Endocarditis: A complication of transvenous cardiac pacing catheterization. *Arch Path. Lab Med.* 110:51-54, 1986.
71. Fischbein, A, Abraham, JL, Horowitz, SF, Hailoo, WL, Cohen, BA, Rizzo, JN, Rohl, AN, and Selikoff, IJ. Hard metal disease - a multidisciplinary evaluation of two cases. *N.Y.S. J. Med.*, 86:600-603, 1986.
72. Redline, S, Barna, BP, Tomashefski, JF, Abraham, JL. Granulomatous Disease Associated with Titanium Pulmonary Deposition. *Br. J. Ind. Med.*, 43:652-656, 1986.
73. Abraham, JL and Mc Euen, D. Inorganic particulates associated with pulmonary alveolar proteinosis: SEM and X-Ray microanalysis results. *Applied Path.*, 4:138-146, 1986.
74. Smith, CM, Batcher, S, Catanzaro, R, Abraham, JL, and Phalen, R. Sequence of bronchoalveolar lavage and histopathologic findings in rat lungs early in inhalation asbestos exposure. *J. Toxicol. Environ. Health*, 20:147-161, 1987.
75. Craighead, JE, Kleinerman, J and Abraham, JL et al. Diseases associated with exposure to silica and non-fibrous silicate minerals. *Arch. Path. Lab. Med.*, 112:673-720, 1988.
76. Abraham, JL, Smith, CM, and Mossman, B. Chrysotile and crocidolite pulmonary fiber concentration and dimension after inhalation and clearance in Fischer 344 rats. *Ann. Occup. Hyg.* 30:203-211, 1988.
77. Hallman, M, Abraham, JL, Pitkanen, O and Arjomaa, P. Diagnosis of surfactant defects in newborn, children and adults in the era of surfactant therapy in Surfactant Replacement Therapy in Neonatal and Adult Respiratory Distress Syndrome, edited by B. Lachman, Springer Verlag Publishers (Berlin), 58-65, 1988.
78. Abraham, JL and Burnett, BR. Quantitative in situ analysis of inorganic particulate burden in tissue sections - an update. Microprobe Analysis in Medicine, Ingram, Shelburne, and Roggli, eds., Hemisphere Publishing Corporation, pp. 111-131, 1989.
79. Barbers, RG and Abraham, JL. Asbestosis occurring after brief inhalational exposure: Usefulness of bronchoalveolar lavage in diagnosis. *Br J Indust Med*, 46:106-110, 1989.
80. Yu, CP, Asgharian, B and Abraham, JL. A mathematical model of alveolar clearance of chrysotile asbestos fibers from the rat lung. *J. Aerosol Sci.*, 21:587-594, 1990.
81. American Thoracic Society (Weill, H, Abraham, JL, Balmes, JR, et al.) Official statement. Health effects of tremolite. *Am Rev. Respir Dis*, 142:1453-1458, 1990.
82. Jederlinic, PJ, Abraham, JL, Churg, A, Himmelstein, JS, Epler, G and Gaensler, EA. Pulmonary fibrosis in aluminum oxide workers: Investigation of 9 workers, with pathologic examination and microanalysis in 3 of them. *Amer. Rev. Resp. Dis.*, 142:1179-1184, 1990.
83. Abraham, JL, Burnett, BR and Hunt, A. Development and use of a pneumoconiosis database of human pulmonary inorganic particulate burden in over 400 lungs. *Scanning Microscopy*, 5:95-108, 1991.
84. Bartter, T, Irwin, RS, Abraham, JL, Dascal, A, Nash, G, Himmelstein, JS, Jederlinic, PJ. Zirconium compound-induced pulmonary fibrosis. *Arch Int Med*, 151:1197-1200, 1991.

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85. Auchincloss, JH, Abraham, JL, Lax, M, Gilbert, R, Henneberger, PE, Heitzman, ER and Peppi, DJ.: Health Hazard of Poorly Regulated Exposure during Manufacture of Cemented Tungsten Carbides and Cobalt. *Brit. J. Ind. Med.* 48:832-836, 1992.
86. Abraham, JL. Environmental Pathology of the Lung. *In: Environmental and Occupational Medicine*, 2nd ed. W. Rom, Little, Brown & Co., 1993, pp. 123-155.
87. Forst, LS, Abraham, JL. Hypersensitivity pneumonitis presenting as sarcoidosis. *Br. J. Ind. Med.* 50:497-500, 1993.
88. Frost, AE, Kellar, CA, Brown, RW, Noon, GP, Short, HD, Abraham, JL, Pacinda, S, Cagle, PT. Single lung transplantation for giant cell interstitial pneumonitis: Recurrence of original disease in the transplanted lung. *Amer Rev Resp Dis* 148:1401-1404, 1993.
89. Abraham, JL, Stettler, LE, Burnett, B, Hunt, A, Platek, B. Interlaboratory Comparison of Non-Fibrous Particle Lung Burden Quantitation Techniques. *Ann. Occup. Hyg.* 38, Suppl. 1:541-550, 1994.
90. Abraham, JL, Hunt, A, Burnett, B. Steel Particles as a Marker of Welding Fume Exposure, Frequency of Occurrence and Prevalence of Steel Particles in a Series of Over 400 Human Lungs. *Ann. Occup. Hyg.* 38, Suppl. 1:551-557, 1994.
91. Abraham, JL. Commentary: Asbestos Inhalation, Not Asbestosis, Causes Lung Cancer. *Am. J. Indust. Med.* 26:395-398, 1994.
92. Keller, CA, Frost, A, Cagle, PT, Abraham, JL. Pulmonary alveolar proteinosis in a painter with elevated pulmonary concentrations of titanium. *Chest* 108:277-280, 1995.
93. Abraham, JL and Hunt, A. Contamination of the environment by Cobalt in the vicinity of a cemented tungsten carbide manufacturing plant. *Envir. Res.* 69:67-74, 1995.
94. Schoning, P, Abraham, JL, Burnett, BR. Silicate and Metal Dust in lungs of Greyhounds. *Am J Vet Res* 57:1006-1009, 1996.
95. Yang, YJ and Abraham, JL. Undifferentiated carcinoma arising in oncocytic Schneiderian (cylindrical cell) papilloma. *J. Oral Maxillofac. Surg.* 55:289-294, 1997.
96. Beckett, W, Abraham, JL, Becklake, M, Christiani, D, Cowie, R, Davis, G, Jones, R, Kreiss, K, Parker, J and Wagner, G. Report of the ATS committee on adverse effects of crystalline silica exposure. *Am J Resp Crit Care Med* 155:761-768, 1997.
97. Abraham, JL and Wiesenfeld, SL. Two cases of fatal PMF in an ongoing epidemic of accelerated silicosis in oilfield sandblasters: lung pathology and mineralogy. *Inhaled Particles VIII, Ann Occup Hyg* 41 (Suppl. 1):440-447, 1997.
98. Abraham, JL, Hunt, A and Burnett, BR. Lung pathology and mineralogy associated with high pulmonary burden of metal particles: Fe, Ti, Al and Cr in a pneumoconiosis database. *Inhaled Particles VIII, Ann Occup Hyg* 41 (Suppl. 1):522-530, 1997.
99. Botash, RJ, Poster RB, Abraham JL and Mahkuli ZM. Senile Seminal Vesicle Amyloidosis Associated with Hematospermia: Demonstration by Endorectal MR Imaging. *J Comput Assist Tomog* 21:748-749, 1997.
100. Hunt, A, Burnett, BR, Basford, T and Abraham, JL. Lead and other metals in play-kit and craft items composed of vinyl and leather. *Am J Publ Health* 87:1724-1727, 1997.
101. Barker-Griffith, AE, Streeten, BW, Abraham, JL, Schaeffer, DP and Norton, SW. Potato Gun Ocular Injury. *Ophthalmology* 105:535-538, 1998.
102. Turkeri, LN, Daudi, I, Abraham, JL, Wojtowycz, AR and Haas, GP. Cirroid Arteriovenous Malformation of Kidney presenting as a mass suggestive of malignancy. *Int J Urol*, 5:96-99, 1998.

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