

PUBLICATIONS

1. **Kane A**, Basilico C and Baserga R: Transcriptional activity and chromatin structural changes in a temperature-sensitive mutant of BHK cells blocked in early G₁. *Exp. Cell Res.* 94 165-173 (1976).
2. Rossini M, **Kane A** and Baserga R: Nuclear control of cell proliferation pp 177-190 **In**: Drewinko B. and Humphrey RG eds., Growth Kinetics and Biochemical Regulation of Normal and Malignant Cells. *Williams and Wilkins Co., Baltimore*, 1977.
3. Ringertz NR, Bols N, Ege T, **Kane A**, Krondahl U, Linder S and Shelton K: Reconstruction of viable cells from cell fragments, pp 444-488, **In**: Brinkley BR and Porter KR eds., *International Cell Biology 1976-1977*, Rockefeller University Press, New York, 1977.
4. Bols NC, **Kane AB** and Ringertz NR: Restoration of metabolic cooperation in heterokaryons between HGPRT-deficient mouse A9 fibroblasts and chick embryo erythrocytes. *Somatic Cell Genetics* 5: 1045-1059 (1979).
5. Schanne FAX, **Kane AB**, Young EE and Farber JL: Calcium dependence of toxic liver cell death: A final common pathway. *Science* 206: 700-702 (1979).
6. **Kane AB** and Bols NC: A study of metabolic cooperation with rat peritoneal macrophages. *J. Cell. Physiol.* 102: 385-393 (1980).
7. **Kane AB**, Young EE, Schanne FAX and Farber JL: Calcium dependence of phalloidin-induced liver cell death. *Proc. Natl. Acad. Sci., USA* 77: 1177-1180 (1980).
8. **Kane AB**, Stanton RP, Raymond EG, Dobson ME, Knafelc ME and Farber JL: Dissociation of intracellular lysosomal rupture from the cell death due to silica. *J. Cell Biology* 87: 643-651 (1980).
9. Russo MA, **Kane AB** and Farber JL: Ultrastructural pathology of phalloidin-intoxicated hepatocytes in the presence or absence of extra-cellular calcium. *Am. J. Path.* 109: 133-144 (1982).
10. Abrams WR, Diamond LW and **Kane AB**: A flow cytometric assay of neutrophil degranulation. *J. Histochem. Cytochem.* 31: 737-744 (1983).
11. Idell S, Meltzer M, Knafelc E, **Kane A**, Meyers AR and Berney S: Primary systemic amyloidosis with a retroperitoneal mass. *Clin. Exp. Rheum.* 2: 181-184 (1984).
12. **Kane AB**, Petrovitch DR, Stern RO and Farber JL: ATP depletion and the loss of cell integrity in anoxic hepatocytes and silica-treated P388D₁ macrophages. *Am. J. Physiol* 249: C256-C266 (1985).
13. Macdonald JL and **Kane AB**: Identification of asbestos fibers within single cells. *Lab. Invest.* 55: 177-185 (1986).

14. Goodglick LA and **Kane AB**: The role of reactive oxygen metabolites in crocidolite asbestos toxicity to macrophages. *Cancer Res.* 46: 5558-5566 (1986).
15. Moalli PA, Macdonald JL, Goodglick LA and **Kane AB**: Acute injury and regeneration of the mesothelium in response to asbestos fibers. *Am. J. Pathol.* 128: 426-445 (1987).
16. Dobson ME, Stern RO and **Kane AB**: Selective purine release from P388D₁ macrophages injured by silica. *J. Cell Physiol.* 135: 244-252 (1988).
17. Branchaud RM, Macdonald JL and **Kane AB**: Induction of angiogenesis by intraperitoneal injection of asbestos fibers. *The FASEB J.* 3: 1747-1752 (1989).
18. Goodglick LA, Pietras LA and **Kane AB**: Evaluation of the causal relationship between crocidolite asbestos-induced lipid peroxidation and toxicity to macrophages. *Am. Rev. Resp. Dis.* 139: 1265-1273 (1989).
19. Gleva GF, Goodglick LA and **Kane AB**: Altered calcium homeostasis in irreversibly-injured P388D₁ macrophages. *Am. J. Pathol.* 137: 43-58 (1990).
20. Goodglick LA and **Kane AB**: Cytotoxicity of long and short crocidolite asbestos fibers in vitro and in vivo. *Cancer Res.* 50: 5153-5163 (1990).
21. McClellan RO, Miller FJ, Hesterberg TN, Warheit DB, Bunn WB, Dement JM, **Kane AB**, Lippman M, Mast RW, McConnell EE and Reinhardt CF: Approaches to evaluating the toxicity and carcinogenicity of man-made fibers. *Regulatory Toxicology and Pharmacology* 16: 321-364 (1992).
22. Macdonald JL and **Kane AB**: Regulation of mesothelial cell proliferation by the extracellular matrix *in vivo*. *Eur. Resp. Rev.* 3: 123-125 (1993).
23. Cora EM and **Kane AB**: Alterations in a tumor suppressor gene, p53, in mouse mesotheliomas induced by crocidolite asbestos. *Eur. Resp. Rev.* 3: 148-150 (1993).
24. Branchaud RM, Garant LJ and **Kane AB**: Pathogenesis of mesothelial reactions to asbestos fibers: monocyte recruitment and macrophage activation. *Pathobiology* 61:154-163 (1993).
25. Moyer VD, Cistulli CA, Vaslet CA and **Kane AB**: Oxygen radicals and asbestos carcinogenesis. *Environmental Health Persp.* 102:131-136 (1994).
26. Cistulli CA, Sorger T, Marsella JM, Vaslet CA and **Kane AB**: Spontaneous p53 mutation in murine mesothelial cells: increased sensitivity to DNA damage induced by asbestos and ionizing radiation. *Toxicol. Appl. Pharmacol.* 141:264-271 (1996).
27. Marsella JM, Liu BL, Vaslet CA and **Kane AB**, Susceptibility of p53-deficient mice to induction of mesothelioma by crocidolite asbestos fibers. *Environ. Health Persp.* 105:1069-1072 (1997).
28. Goodglick LA, Vaslet CA, Messier NJ and **Kane AB**, Growth factor responses and protooncogene expression of murine mesothelial cell lines. *Toxicologic Pathology* 25:565-573 (1997).

29. Macdonald JL and **Kane AB**: Mesothelial cell proliferation and biopersistence of wollastonite and crocidolite asbestos fibers. *Fundam. Appl. Toxicol.* 38:173-183 (1997).
30. Yano N, Endoh M, Fadden K, Yamashita H, **Kane A**, Sakai H and Rifai A: Comprehensive gene expression profile of the adult human renal cortex: Analysis by cDNA array hybridization. *Kidney International* 57:1452-1459 (2000).
31. Yano N, Habib NA, Fadden KJ, Yamashita H, Mitry R, Jauregui H, **Kane A**, Endoh M and Rifai A: Profiling the adult human liver transcriptome: Analysis by cDNA array hybridization. *J Hepatology* 35:178-186 (2001).
32. Vaslet CA, Messier NJ and **Kane AB**: Accelerated progression of asbestos-induced mesotheliomas in heterozygous p53^{+/-} mice. *Toxicol Sciences* 68:331-338 (2002).
33. Kellerman LC, Valeyrie L, Fernandez N, Opolon P, Sabourin J-C, Maube E, LeRoy P, **Kane AB**, Legrand A, Abina MA, Descamps V and Haddada H: Regression of AK7 malignant mesothelioma established in immunocompetent mice following intratumoral gene transfer of interferon gamma. *Cancer Gene Therapy* 10:481-490 (2003).
34. Yuan ZL, Guan YJ, Wang LJ, Wei W, **Kane AB** and Chin YE: Central role of the threonine residue within the p+1 loop of receptor tyrosine kinase in STAT3 constitutive phosphorylation in metastatic cancer cells. *Mol Cell Biol* 24: 9390-9400 (2004).
35. Altomare DA, Ramos-Nino ME, Xiao G-H, Wang HQ, Skele KL, DeRienzo AD, Mossman BT, **Kane AB** and Testa JR: The AKT/PKB pathway is frequently activated in human murine mesotheliomas and can be targeted to inhibit mesothelioma cell growth. *Oncogene* 24: 6080-6089 (2005).
36. Altomare DA, Vaslet CA, Skele KL, DeRienzo A, Devarajan K, Jhanwar SC, McClatchey AI, **Kane AB** and Testa JR: A mouse model recapitulating molecular features of human mesothelioma. *Cancer Res* 65:8090-8095 (2005).
37. **Kane AB**: Animal models of malignant mesothelioma. *Inhalation Toxicol.* 18: 1001-1004 (2006).
38. Hurt RH, Monthieux M and **Kane A**: Toxicology of carbon nanomaterials: Status, trends, and perspectives on the special issue. *Carbon* 44:1028-1033 (2006).
39. Aihui Y, Lau BW, Weissman BS, Külaots I, Yang NYC, **Kane AB** and Hurt RH: Biocompatible, hydrophilic, supramolecular carbon nanoparticles for cell delivery. *Advanced Materials* 18: 2373-2378 (2006).
40. Liu X., Gural V., Morris D., Murray, D., Zhitkovich A., **Kane AB.**, Hurt R.H. Bioavailability of nickel in single-wall carbon nanotubes. *Advanced Materials* 19:2790-96, (2006).
41. Guo L., Liu X., Sanchez V., Vaslet C., **Kane AB.**, and Hurt RH: A window of opportunity: designing carbon nanomaterials for environmental safety and health. *Mater. Sci. Forum* 544/545:511-516 (2007).

42. Guo L., Morris DG., Liu X., Vaslet C., Hurt RH., **Kane AB**: Iron bioavailability and redox activity in diverse carbon nanotubes samples. *Chem. Mater.* 19:3472-78 (2007).
43. Pietruska JR and **Kane AB**: SV40 oncoproteins enhance asbestos-induced DNA double-strand breaks and abrogate senescence in murine mesothelial cells. *Cancer Res.* 67:3637-45 (2007).
44. Yan A, von dem Bussche, A, **Kane AB**, Hurt RH: Tocopheryl polyethylene glycol succinate as a safe, antioxidant surfactant for processing carbon nanotubes and fullerenes. *Carbon* 45:2463-70 (2007).
45. Liu X, Guo L, Morris D, **Kane AB**, Hurt, RH: Targeted removal of bioavailable metal as a detoxification strategy for carbon nanotubes. *Carbon* 46: 489-500 (2008).
46. Miselis N, Wu Z, Van Rooijen N, **Kane AB**: Targeting tumor-associated macrophages in an orthotopic murine model of diffuse malignant mesotheliomas. *Mol. Cancer Ther.* 7:788-799 (2008).
46. Guo L, von dem Bussche A, Buechner M, **Kane AB**, Hurt RH: Adsorption of essential micronutrients by carbon nanotubes and its implications for nanotoxicity testing. *Small* 4:721-727 (2008).
47. **Kane AB** and Hurt RH: Nanotoxicology: The asbestos analogy revisited. *Nat. Nanotech.* 3: 378-379 (2008).
48. Hoover E, Brown P, Averick M, **Kane AB** and Hurt R: Teaching small and thinking large: Effects of including social and ethical implications in an interdisciplinary nanotechnology course. *J. of Nano Education* 1: 1-10 (2008).
49. Altomare DA, Menges CW, Pei J, Zhang L, Skele KL, Carbone M, **Kane AB** and Testa JR: Activated TNF α /NF κ B pro-survival signaling via down regulation of fas-associated factor in asbestos-induced mesotheliomas from *arf* knock-out mice. *Proc. Natl. Acad. Sci. USA* (in press).

ABSTRACTS

1. Abrams WR, Diamond LW and **Kane AB**: Degranulation of neutrophils measured by flow cytometry. *Fed. Proc.* 41: 526a (1982).
2. **Kane AB** and Merrick GS: Colony formation by mouse peritoneal cells exposed to asbestos. *Fed. Proc.* 41: 526a (1982).
3. Glasgow JE, Snyder R, Fein A, Polisher M, Yamada H, **Kane A**, Rosen S, Meranze, DR and Weinbaum G: Neutropenia attenuates pulmonary fibrosis induced by intratracheal cadmium chloride. *Annual American Thoracic Society Meeting, Colorado*, 1982.
4. **Kane AB**, Stern RO, and Dobson ME: The role of reactive oxygen metabolites generated by purine catabolism in acute silica toxicity. *Fed. Proc.* 43: 1927a (1984).
5. **Kane AB** and Macdonald JL: Identification of asbestos fibers within single cells. *Am. Rev. Resp. Dis.* 29: 149a (1984).
6. **Kane AB**, Moalli PA, and Ho BT: Activated macrophages mediate peritoneal reactions to asbestos fibers. *Am. Rev. Resp. Dis.* 131: A186 (1985).
7. Goodglick LA, Gleva GF, Misselbeck GM and **Kane AB**: The role of oxidants and calcium in asbestos toxicity. *Am. Rev. Resp. Dis.* 131: A357 (1985).
8. **Kane AB**, Macdonald JL and Moalli PA: Asbestos fibers and activated macrophages: A prooxidant environment leading to mesotheliomas, poster presentation at the *Gordon Research Conference on Phagocytes*, July 1-5, 1985.
9. Goodglick LA, Gleva GF and **Kane AB**: Altered calcium homeostasis and silica toxicity. *Am. Rev. Resp. Dis.* 133: A91 (1986).
10. **Kane AB**, Macdonald JL, and Moalli PA: Acute injury and regeneration of mesothelial cells produced by crocidolite asbestos fibers. *Am. Rev. Resp. Dis.* 133: A198 (1986).
11. **Kane AB**, Branchaud RM, and Macdonald JL: Induction of angiogenesis by intraperitoneal injection of asbestos fibers. *Am. Rev. Resp. Dis.* 135: A281 (1987).
12. Goodglick LA and **Kane AB**: Prevention of asbestos-induced cytotoxicity in vivo. *Am. Rev. Resp. Dis.* 135: A163 (1987).
13. **Kane A** and Goodglick L: Asbestos exposure increases expression and activation of transforming growth factor type beta (TGF-beta) by mouse peritoneal macrophages. *Fed. Proc.* 2: A1823 (1988).

14. **Kane AB**, Pietras LA and Goodglick LA: DNA strand breaks and depletion of nicotinamide adenine dinucleotide (NAD⁺) in asbestos toxicity. *Am. Rev. Resp. Dis.* 139: A212 (1989).
15. Morel I, Gleva G, Goodglick L and **Kane A**: Intracellular calcium homeostasis and asbestos toxicity. *The FASEB J.* 4: A1253 (1990).
16. **Kane AB**, Garant LJ and Gleva GF: Growth regulation of mouse preneoplastic and neoplastic mesothelial cell lines by transforming growth factor-b1 (TGF-b1). *Am. Rev. Resp. Dis.* 141: A419 (1990).
17. Goodglick LA and **Kane AB**: Impaired lymphatic clearance enhances the toxicity of short crocidolite asbestos fibers in vivo. *J. Aerosol Medicine* 3: 71 (1990).
18. **Kane A**: Physical and chemical determinants of fiber carcinogenicity. *The FASEB J.* 5: A1603 (1991).
19. Cora E and **Kane A**: Expression of the tumor suppressor gene, p53, during the development of murine malignant mesotheliomas induced by asbestos fibers. *The FASEB J.* 5: A1442 (1991).
20. Moyer VD and **Kane A**: Activation of the TGF-a growth regulatory pathway in murine mesotheliomas induced by crocidolite asbestos fibers. *Am. Rev. Resp. Dis.* 149: A487 (1994).
21. Moyer VD, Vaslet CA and **Kane A**: Genetic alterations in murine mesotheliomas induced by crocidolite asbestos. *Cellular and Molecular Effects of Mineral and Synthetic Dusts and Fibres* (in press).
22. Xia L, Pietruska J, Messier N, Smith R, Vaslet C and **Kane A**: Differential gene expression in murine mesothelioma cell lines. *The FASEB J.* 14:A447 (2000).
23. Xia L, Gnepp DR, **Kane AB** and Chin YE: Constitutive Stat 3 Activation by Tyrosine Kinase Mutated RET is Responsible for Metastasis in Multiple Endocrine Neoplasia 2B. *Laboratory Invest.* 81:A452 (2001).

INVITED REVIEWS

1. **Kane AB**: Complications of exposure to toxic mineral dusts. *Medical Times* 111: 45-51 (1983). Reprinted in *Resident and Staff Physician*.
2. Abeshaus DB, Epstein L, **Kane A** and Monteiro L: The status of women in medicine at the Brown University School of Medicine. *Rhode Island Medicine* 76:322-324 (1993).
3. **Kane AB**: Epidemiology and pathology of asbestos - related diseases. *Reviews in Mineralogy* 28:347-360 (1993).

4. **Kane AB**: Human health hazards of dusts and fibers. *Materials Engineering* 7:309-323 (1996).
5. **Kane AB**: Oncogenes and tumor suppressor genes in the carcinogenicity of fibers and particles. *Inhalation Toxicology* 12 (Supplement 3): 133-140 (2000).

BOOKS

1. **Kane AB**, Boffeta P, Saracci R and Wilbourn JD, eds. **Mechanisms of Fibre Carcinogenesis**, IARC Scientific Publication No. 140, International Agency for Research on Cancer, Lyon, 1996.

BOOK CHAPTERS

1. Benditt EP, Farber JL, **Kane AB**, Kaufman DG, Nettesheim P, Reddy J and Smuckler EA, Molecular and Cellular Mechanisms of Environmental Injury, Chapter 1 in **Human Health and the Environment**, Public Health Service, 1986.
2. Goodglick LA and **Kane AB**, The Role of Fiber Length in Crocidolite Asbestos Toxicity In Vitro and In Vivo, in **Proceedings of the VIIth International Pneumoconioses Conference**, DHHS (NIOSH) Publication No. 90-108, Part I, 1990, pp. 163-169.
3. **Kane AB**, Gleva GF and Goodglick LA, Altered Calcium Homeostasis and Mineral Dust Toxicity, in **Effects of Mineral Dusts on Cells**, B.T. Mossman and R.O. Begin, eds., Springer-Verlag, Berlin, 1989, pp. 231-238.
4. Goodglick LA and **Kane AB**, Membrane Perturbation by Asbestos Fibers and Disease in **Cellular Membrane: A Key to Disease Processes**, S.T. Ohnishi and T. Ohnishi, eds., CRC Press, Boca Raton, 1993, pp.123-139.
5. **Kane AB**, Fiber Dimensions and Mesothelioma: A Reappraisal of the Stanton Hypothesis in **Mechanisms in Fibre Carcinogenesis**, R.C. Brown, J.A. Hoskins, and N.F. Johnson, eds., Plenum Press, N.Y., 1991, pp. 131-140.
6. **Kane AB**, Animal Models of Mesothelioma Induced by Mineral Fibers: Implications for Human Risk Assessment in **Relevance of Animal Studies to the Evaluation of Human Cancer Risk**, R. D'Amato, T.J. Slaga, W. Farland, and C. Henry, eds., Wiley-Liss, Inc., N.Y., 1992, pp. 37-50.
7. **Kane AB** and Macdonald JL, Mechanisms of Mesothelial Cell Injury, Proliferation and Neoplasia Induced by Asbestos Fibers in **Fiber Toxicology**, D. Warheit, ed., Academic Press, San Diego, 1993, pp. 323-348.
8. **Kane AB**, Questions and Controversies about the Pathogenesis of Silicosis in **Silica and Silica-Induced Lung Diseases: Current Concepts**, V Castranova, B. Wallace, and V. Vallyathan, CRC Press, 1995, pp. 121-136.

9. **Kane AB:** Particle and Fiber-Induced Lesions: An Overview in **Toxic and Carcinogenic Effects of Solid Particles in the Respiratory Tract**, Mohr, U., ed., ILSI Press, Washington, D.C., 1994, pp. 3-16.
10. **Kane AB:** Teaching Environmental Pathology in the Medical Curriculum: Lecture Format vs. Case Study in Asbestos-Related Diseases, **Environmental and Occupational Disease**, J. Craighead, ed., Universities Associated for Research and Education in Pathology, Inc., Bethesda, Maryland, 1993, pp. 21-28.
11. 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**, J. Bignon and M.-C. Jaurand, eds., Marcel Dekker, Inc., N.Y., 1994, pp. 79-102.
12. **Kane AB:** Mechanisms of Cell and Tissue Injury, Chapter 1 in **Cellular and Molecular Pathogenesis**, A. Sirica, ed., Lippincott-Raven, Philadelphia, 1996, pp. 1-22.
13. **Kane AB:** Animal Models of Malignant Mesothelioma, Chapter 25 in **Environmental and Occupational Medicine**, 3rd ed., W.N. Rom, ed., Lippincott-Raven, Philadelphia, 1998, pp. 377-386.
14. **Kane AB** and Kumar V: Environmental and Nutritional Pathology, Chapter 10 in **Pathologic Basis of Disease**, 6th ed., R.S. Cotran, V. Kumar, and T. Collins, eds., W.B. Saunders, Philadelphia, 1999, pp. 403-458.
15. **Kane AB** and Kumar V: Environmental and Nutritional Pathology, Chapter 9 in **Pathologic Basis of Disease**, 7th ed., V. Kumar, A.K. Abbas, and N. Fausto, eds., Elsevier Saunders, Philadelphia, 2005, pp. 415-468.
16. **Kane AB:** Mesothelial and Mesothelioma Cell Lines, Chapter 5 in **Malignant Mesothelioma: Advances in Pathogenesis, Diagnosis, and Translational Therapies**, H.I. Pass, N.J. Vogelzang, and M. Carbone, eds., Springer, New York, 2005, pp. 87-100.

CONSENSUS REPORTS

1. Consensus report in **Mechanisms of Fibre Carcinogenesis**, A.B. Kane, P. Boffetta, R. Saracci, and J.D. Wilbourn, eds. IARC Scientific Publications No. 140, International Agency for Research on Cancer, Lyon, 1996, pp. 1-9.
2. **IARC Monograph Volume 68: Silica, Some Silicates, Coal Dust and Para-Aramid Fibrils**, IARC Press, Lyon, 1996.
3. ECVAM Workshop Report 30: Non-animal Tests for Evaluating the Toxicity of Solid Xenobiotics, JRC Institute for Health & Consumer Protection, Ispra, Italy, 1998.
4. **IARC Monograph Volume 74: Surgical Implants and Other Foreign Bodies**, IARC Press, Lyon, 1999.

5. ILSI Risk Science Institute Workshop, The Relevance of the Rat Lung Response to Particle Overload for Human Risk Assessment: A Workshop Consensus Report. *Inhalation Toxicology* 12:1-7, 2000.
6. Review of the U.S. Navy's Exposure Standard for Manufactured Vitreous Fibers, National Research Council, National Academy Press, Washington, DC, 2000.
7. **IARC Monograph Volume 81: Man-Made Vitreous Fibres**, IARC Press, Lyon, 2002.
8. ILSI Risk Science Institute Working Group, Testing of Fibrous Particles: Short-term Assays and Strategies. *Inhalation Toxicology*, 17: 1-41, 2005.
9. **Asbestos: Selected Cancers**, Institute of Medicine, National Academy Press, Washington, DC, June 6, 2006.

INVITED EDITORIALS

1. **Kane AB**: Environmental pathology: The pathologist's responsibility? *Human Pathology* 23: 1093-1094 (1993).
2. **Kane AB**: Asbestos bodies: clues to the mechanisms of asbestos toxicity? *Human Pathology* 34: 735-736 (2003).
3. Hurt RH, Monthieux M and **Kane AB**: Toxicology of carbon nanomaterials. *Carbon* 44: 1028-1033 (2006).