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Born in Bristol, England
American Citizen

Education:

- 1967 Bachelor of Veterinary Science (B.V.Sc.), University of Bristol, England
- 1975 Ph.D. (Veterinary Pathology), University of Edinburgh, Scotland
- 1979 Diplomat A.C.V.P. (American College of Veterinary Pathologists),
Veterinary Pathology
- 1986 M.R.C.Path. (Member of the Royal College of Pathologists)
- 1995 F.R.C.Path (Fellow of the Royal College of Pathologists – stopped paying
dues about 20 years ago!)
- 2011 Entrepreneurship in the school of Internet Business Life.

Professional Experience:

- 2011 - Entrepreneur. Owner of Old Dogs in Training LLC, consulting on health
issues and miscellaneous scientific questions, upon request.
- 2002 -2011 Advisor on New Molecular Technologies to DSE World Wide, Aventis and
Sanofi-Aventis, Bridgewater, NJ
- 2000 - 2002 Head, Toxicogenomics-Mechanisms, GSK, RTP.
- 1997-2002 Scientist, GlaxoWellcome, TOX-T1178, 5 Moore Drive, Research Triangle
Park, NC 27709
- 1981-97 Senior Scientist, Department of Experimental Pathology and Toxicology,
CIIT, Research Triangle Park, North Carolina, U.S.A.

Research. Training of post-doctoral fellows and graduate students.
Facilitating work of visiting scientists. Developed successful and ongoing
research programs in nasal toxicology and neurotoxicology.
- 1980-81 Associate Head of the Section of Toxicology and Experimental
Carcinogenesis, Battelle, Geneva, Switzerland.

Head of skin painting program (SENCAR mice), general pathology duties, developed an interest in the applications of computer science.

1978-80 Pathologist, Pathology Services Project, National Center for Toxicological Research, Jefferson, Arkansas, U.S.A.
Assistant Professor, Department of Pathology, University of Arkansas Medical School, Little Rock, Arkansas.

Learned general rodent pathology, completed pathology boards, and developed an interest in ovarian carcinogenesis.

1975-78 Research Scientist, Battelle, Geneva, Switzerland.

Respiratory tract pathology, scanning electron microscopy, whole body autoradiography, metabolism and pharmacokinetics, studies of human platelet function (working language was french)

1970-75 Veterinary Research Officer and Senior Veterinary Research Officer, Moredun Animal Diseases Research Institute, Edinburgh, Scotland.

Responsible for neuropathology diagnostic service. Provided pathology support to other researchers and developed multiple research programs, including studies of copper and thiamine antimetabolite toxicity.

1967-70 General veterinary practice (Farm and companion animals) in England.

Other Appointments:

1996- Member of Editorial Board of Fundamental and Applied Toxicology.
Chairman of Organizing Committee for 1997 Plenary Session on Respiratory System Pathology of the ACVP.

1994- Member of nomenclature committee of the Society of Toxicologic Pathologists - proliferative lesions of the C.N.S.

1993- Adjunct Associate Professor, North Carolina State University

Currently mentoring an excellent student (Dr. Joelle Ibanes) through her doctoral program in immunology. Lecturing responsibilities in North Carolina State University, Toxicologic Pathology course for the past several years.

1993- Member of A.C.V.P. Externship Committee and Harold Casey Committee.

CONFIDENTIAL

- 1991- Adjunct Associate Professor, Duke University Medical School, Toxicology Program.
- 1991- Member of the Editorial Board of Food and Chemical Toxicology.
- 1987-90 CIIT Postdoctoral Coordinator.
- Worked with young scientists to find an appropriate match with senior staff and research area. Organized interview process, handled circulation of resumes, acted as a facilitator and aided in selection of post-doctoral fellows.
- 1984- Adjunct Assistant Professor, Department of Pathology, University of North Carolina at Chapel Hill.
- 1983- Frequent consultant to industry and government. Principally for my expertise on upper respiratory tract toxicology and carcinogenesis.
- 1979- Participated in multiple toxicology studies, including slide reading, report generation, quality assurance, and preparation of manuscripts.

Professional Societies:

Royal College of Veterinary Surgeons
British Neuropathological Society
American College of Veterinary Pathologists
Society of Toxicologic Pathologists
Société Française des Anato-mo-Pathologistes Toxicologues
Royal College of Pathologists
North Carolina Society for Neuroscience
North Carolina Society of Toxicology

Advisory Work And Collaboration With Federal Laboratories:

- From 1981 Reviewed multiple articles for "Toxicology and Applied Pharmacology", "Fundamental and Applied Toxicology", "Toxicology", "The Journal of the National Cancer Institute", "Environmental Health Perspectives", "American Review of Respiratory Disease", "American Journal of Pathology", and other journals.
- From 1982 Consultant to the National Toxicology Program (N.I.E.H.S.) for Pathology Working Groups and Contract Proposal Reviews. Collaborative work and invited speaker on ovarian and brain tumors of mice. Regular reviewer of articles for N.T.P. Pathology Branch. Co-organizer of N.T.P. meeting on Toxicity of the Upper Airways (1988).

CONFIDENTIAL

From 1985 Member of faculty of the International Life Science Institute (I.L.S.I.) Seminar Series on Reproductive Pathology (Ovarian Neoplasia) and author on associated monograph.

Invited speaker at I.L.S.I. Inter-disciplinary Discussion Group Meeting at Chapel Hill, 1986. Invited author for I.L.S.I. monograph on pathology of the Nervous System.

Faculty of the I.L.S.I. Seminar Series on the Respiratory System.

Teaching Experience:

Society of Toxicology continuing education courses:

Respiratory system (1989)

Olfactory system (1993)

I.L.S.I. faculty for toxicology pathology of organ systems

Reproductive system (1987)

Respiratory system (1993)

N.C.S.U.-C.V.M. Rodent Toxicologic Pathology Course

Nervous system (1992)

Respiratory system (1992-96)

Presentations:

Multiple. Usually about 10 per year. Recently included:

- Society of Toxicology, Continuing education, "An Overview of Olfactory Toxicity".
- British Society of Toxicology, Symposium on Sensory Systems, "Olfactory Toxicity".
- British Society of Toxicologic Pathologists, Symposium on Metabolic Basis of Toxic Responses, "Nasal Metabolism and Regional Responses to Xenobiotics in the Nose".
- CIIT Symposium on Nasal Toxicity, "Nasal Dosimetry, Regional Responses, and the Role of the Toxicologic Pathologist".

Awards:

1992 Research Paper of the Year. Society of Toxicology, Inhalation Specialty Section, Co-Author. Fundam. Appl. Toxicol., 17, 409-428.

Grants And Contracts:

Negotiated extensive research support for multiple programs at Battelle-Geneva. My time at CIIT has been generally so well supported that seeking grant money was unnecessary. However, in spite of this fact I obtained a number of grants to accelerate progress towards my major research goals. I also submitted one grant application to N.I.H from CIIT. The proposal was rejected, but I received approval as a qualified investigator. I believe that I could successfully pursue NIH support in an academic environment. I am currently a consultant on a large NIH grant funding the laboratory of Dr. Peter Scherer.

While at CIIT I obtained or contributed to the obtaining of the following extra mural funding:

1. \$250K Proctor & Gamble, Research on Glutaraldehyde Toxicity (1989-92). (Principal Investigator)
2. \$35K Proctor & Gamble, Post-graduate support for Dr. Joelle Ibanes, studies of a Rat Adapted Influenza Virus, (1994-). (Principal Investigator)
3. \$260K/annum. EPA co-operative agreement, studies of nasal airflow in rhesus monkeys and humans (1993-96). This grant supported a research program I developed in 1985, with Julia Kimbell (mathematician) as Principal Investigator. This grant provided about 20% of my salary for 3 years (Co-investigator).
4. \$50K. Research with Dr. Jack Harkema, I.T.R.I., for Health Effects Institute, studies of ozone toxicity and responses of nasal mucociliary apparatus (1992-1994). (Co-investigator)
5. \$357K. Health Effects Institute. Studies of nasal toxicity in rodents exposed to Mexico City Urban Air. (Principal Investigator).

Publications:

A. JOURNAL ARTICLES

1. Morgan, K.T. (1973). Chronic copper toxicity of sheep: an ultrastructural study of spongiform leucoencephalopathy. Res. Vet. Sci., 15, 88-95.
2. Morgan, K.T. (1974). An ultrastructural study of ovine polioencephalomalacia. J. Pathol., 110, 123-130.
3. Morgan, K.T. (1974). Amprolium poisoning of preruminant lambs: an ultrastructural study of the cerebral malacia and the nature of the inflammatory response. J. Pathol., 112, 229-236.

4. Morgan, K.T. and Kelly, B.G. (1974). Ultrastructural study of brain lesions produced in mice by the administration of Clostridium welchii Type D Toxin. J. Comp. Pathol., 84, 181-191.
5. Angus, K.W., Sykes, A.R., Gardiner, A.C. and Morgan, K.T. (1974). Mesangiocapillary glomerulonephritis in lambs. 1. clinical and biochemical findings in a Finnish Landrace Flock. J. Comp. Pathol., 84, 309-307.
6. Angus, K.W., Gardiner, A.C., Morgan, K.T. and Gray, E.W. (1974). Mesangiocapillary glomerulonephritis in lambs. 2. pathological findings and electron microscopy of the renal lesions. J. Comp. Pathol., 84, 319-330.
7. Morgan, K.T. and Lawson, G.H.K. (1974). Thiaminase type I producing bacilli and ovine polioencephalomalacia. Vet. Record., 96, 361-363.
8. Morgan, K.T., Coop, R.L. and Doxey, D. (1975). Amprolium poisoning of preruminant lambs: an investigation of the encephalopathy and the haemorrhagic and diarrhoeic syndromes. J. Pathol., 116, 73-81.
9. Morgan, K.T., Kelly, B.G. and Buxton, D. (1975). Vascular leakage produced in the brains of mice by Clostridium welchii type D toxin. J. Comp. Pathol., 85, 461-466.
10. Buxton, D. and Morgan, K.T. (1976). Studies of lesions produced in the brains of mice by Clostridium welchii type D toxin. J. Comp. Pathol., 86, 435-447.
11. Morgan, K.T. and Lawson, G.H.K. (1977). The inhibition of thiaminase type i-producing bacteria by other bacterial species and volatile fatty acids. J. Appl. Bacteriol., 42, 311-319.
12. Morgan, K.T., Gardiner, A.C. and Angus, K.W. (1977). Studies of lesions in the choroid plexus of lambs affected with an acute spontaneous mesangiocapillary glomerulonephritis. J. Comp. Pathol., 87, 15-27.
13. Linklater, K., Dysons, D. and Morgan, K.T. (1977). INvestigations of outbreaks of ovine polioencephalomalacia. Res. Vet. Sci., 22, 308-312.
14. Morgan, K.T. and Strolin-Benedetti, M. (1977). Localization of a new neuroleptic in the pituitary gland of the rat. Experientia, 33, 1485-1486.
15. Strolin-Benedetti, M., Donath, A., Frigerio, A., Morgan, K.T., Laville, L., Malnoe, A. and Larue, D.A. (1978). Absorption, Elimination et metabolisme d'un nouveau medicament neuroleptique (FLO 1374) Chez le rat, le chien et l'homme. Ann. Pharm. Francaises, 36, 279-288.
16. Morgan, K.T., Duchosal, F., Rogg, C. and Miescher, P.A. (1980). Effect of aspirin and aspirin lysinate on platelet function in smokers and non-smokers. Acta Haematol., 63, 177-184.

17. Coggins, C.R.E., Fouillet, X.L.M., Lam, R. and Morgan, K.T. (1980). Cigarette smoke induced pathology of the rat respiratory tract: a comparison of the effects of the particulate and vapour phases. *Toxicology*, 16, 83-101.
18. Morgan, K.T., Crowder, D.M., Frith, C.H., Littlefield, N. and Coleman. (1981). Spongiform leukoencephalopathy induced in mice by oral benzidine administration. *Toxicol. Pathol.*, 9, 4-8.
19. Frith, C.H., Zuna, R.E. and Morgan, K.T. (1981). A morphologic classification and incidence of spontaneous ovarian neoplasms in three strains of mice. *J. Natl. Cancer Inst.*, 67, 693-702.
20. Musy, C., Morgan, K.T. and Coggins, C.R.E. (1981). Computerization of data capture for mouse skin painting studies. *Int. J. Biomed. Computing*. 12, 419-431.
21. Coggins, C.R.E., Lam, R. and Morgan, K.T. (1982). Chronic inhalation study in rats, using cigarettes containing different amounts of cytrel tobacco supplement. *Toxicology*, 22, 287-296.
22. Coggins, C.R.E., Haroz, R.K., Lam, R. and Morgan, K.T. The tumourigenicity of smoke condensates from cigarettes containing different amounts of cytrel, as assessed by mouse skin painting. *Toxicology*, 23, 177-185.
23. Morgan, K.T., Swenberg, J.A., Hamm, T.E.Jr., Wolkowski-Tyl, R. and Phelps, M. (1982). Histopathology of acute toxic response in rats and mice exposed to methyl chloride by inhalation. *Fundam. Appl. Toxicol.*, 2, 293-299.
24. Morgan, K.T., Johnson, B.P., Frith, C.H. and Townsend, J. (1982). An ultrastructural study of spontaneous mineralization in the brains of aging mice. *Acta Neuropathol.*, 58, 120-124.
25. Chapin, R.E., Morgan, K.T. and Bus, J.S. (1983). The morphogenesis of testicular degeneration induced in rats by orally administered 2,5-hexanedione. *Exp. Mol. Pathol.*, 38, 149-169.
26. Morgan, K.T., Patterson, D.L. and Gross, E.A. (1984). Frog palate mucociliary apparatus: structure, function and response to formaldehyde gas. *Fundam. Appl. Toxicol.*, 4, 58-68.
27. Morgan, K.T., Frith, C.H., Swenberg, J.A., McGrath, J.T., Zulch, K.J. and Crowder, D.M. (1984). A morphologic classification of brain tumors found in several strains of mice. *J. Natl. Cancer Inst.*, 72, 151-160.

28. Jiang, X.Z., Buckley, L.A. and Morgan, K.T. (1983). Histopathology of toxic responses to chlorine gas in the nasal passages of rats and mice. *Toxicol. Appl. Pharmacol.*, 71, 225-236.
29. Swenberg, J.A., Barrow, C.S., Morgan, K.T., Heck, H.d'A, Boreiko, C.J., Levine, R.J. and Starr, T.B. (1983). Non-linear biological responses to formaldehyde and their implications for carcinogenic risk assessment. *Carcinogenesis*. 4, 945-952.
30. Greenman, D.L., Highman, B., Kodell, R., Morgan, K.T. and Norvell, M. (1984). Neoplastic and non-neoplastic responses to diethylstilbestrol in C3H mice. *J. Toxicol. Environ. Health.*, 14, 551-567.
31. Buckley, L.A., Jiang, X.Z., James, R.A., Morgan, K.T. and Barrow, C.S. (1984). Respiratory tract lesions induced by sensory irritants at the RD50 concentration. *Toxicol. Appl. Pharmacol.*, 74, 417-429.
32. Chapin, R.E., White, R.D., Morgan, K.T. and Bus, J.S. (1984). Studies of lesions induced in the testis and epididymis of F344 rats by inhaled methyl chloride. *Toxicol. Appl. Pharmacol.*, 76, 328-343.
33. Morgan, K.T., Jiang, X.Z., Patterson, D.L. and Gross, E.A. (1984). The nasal mucociliary apparatus: correlation of structure and function in the rat. *Am. Rev. Resp. Dis.*, 130, 275-281.
34. Morgan, K.T., Jiang, X.Z., Gross, E.A. and Patterson, D.L. (1985). A procedure for the study of effects of irritant gases on the nasal mucociliary apparatus of rats. *Acta Pharmacol. Sinica*. 6, 111-114. (Chinese)
35. Jiang, X.Z., White, R.D and Morgan, K.T. (1985). An ultrastructural study of lesions induced in the cerebellum of mice by inhalation exposure to methyl chloride. *Neurotoxicol.*, 6, 93-104.
36. Morgan, K.T., Gross, E.A., Lyght, O. and Bond, J.A. (1985). Morphologic and biochemical studies of a nitrobenzene-induced encephalopathy in rats. *Neurotoxicol.*, 6, 105-116.
37. Buckley, L.A., Morgan, K.T., Swenberg, J.A., James, R.A., Hamm, T.E.Jr., and Barrow, C.S. (1985). The toxicity of dimethylamine in F344 rats and B6C3F1 mice following a 1 year inhalation exposure. *Fundam. Appl. Toxicol.*, 5, 341-352.
38. Beauchamp, R.O., Kligerman, A.D., Andjelkovich, D.A., Morgan, K.T., and Heck, H.d'A. (1985). A critical review of the literature on acrolein toxicity. *C.R.C. Critical Reviews in Toxicology*, 14, 309-380.

39. Welsch, F. and Morgan, K.T. (1985). Placental transfer and developmental toxicity of 2,2',4,4',5,5'-hexabromobiphenyl in B6C3F1 mice. *Toxicol. Appl. Pharmacol.*, 81, 431-442.
40. Morgan, K.T., Jiang, X.Z., Starr, T.B. and Kerns, W.D. (1986). More precise localization of nasal tumors associated with chronic exposure of F-344 rats to formaldehyde gas. *Toxicol. Appl. Pharmacol.*, 82, 264-271.
41. Morgan, K.T., Patterson, D.L. and Gross, E.A. (1986). Responses of the nasal mucociliary apparatus of F344 rats to formaldehyde gas. *Toxicol. Appl. Pharmacol.*, 82, 1-13.
42. Bogdanffy, M., Randall, H.W. and Morgan, K.T. (1985). Histochemical localization of aldehyde dehydrogenase activity in the nasal passages of F-344 Rats. *Toxicol. Appl. Pharmacol.*, 82, 560-567.
43. Chellman, G.J., Morgan, K.T., Bus, J.S. and Working, P.K. (1986). Inhibition of methyl chloride toxicity in male F-344 rats by the anti-inflammatory agent BW755C. *Toxicol. Appl. Pharmacol.*, 85, 367-379.
44. Bogdanffy, M.S., Randall, H.W. and Morgan, K.T. (1986). Biochemical quantitation and histochemical localization of carboxylesterase in the nasal passages of the Fischer-344 rat and B6C3F1 mouse. *Toxicol. Appl. Pharmacol.*, 88, 183-194.
45. Morgan, K.T., Gross, E.A. and Patterson, D.L. (1986). Distribution, progression, and recovery of acute formaldehyde-induced inhibition of nasal mucociliary function in F-344 rats. *Toxicol. Appl. Pharmacol.*, 86, 448-456.
46. Randall, H.W., Bogdanffy, M.S. and Morgan, K.T. (1987). Enzyme histochemistry of the rat nasal mucosa embedded in cold glycol methacrylate (GMA). *Am. J. Anat.*, 179, 10-17.
47. Bogdanffy, M.S., Morgan, P.H., Morgan, K.T. and Starr, T.B. (1986). Binding of formaldehyde to human and rat nasal mucus and bovine serum albumin. *Toxicol. Letters*. 38, 145-154.
48. Patra, A.L., Gooya, A. and Morgan, K.T. (1986). Airflow characteristics in a baboon nasal passage cast. *J. Appl. Physiol.*, 61, 1959-1966.
49. Greene, J.A., Sleet, R.B., Morgan, K.T. and Welsch, F. (1986). Cytotoxic effects of ethylene glycol monomethyl ether in the forelimb bud of the mouse embryo. *Teratology*, 36, 23-34.
50. Alison, R.H., Morgan, K.T. and Haseman, J.K. (1986). Morphology and classification of ovarian neoplasms in F-344 rats and B6C3F1 mice. *J. Natl. Cancer Inst.*, 78, 1229-1243.

51. Gross, E.A., Patterson, D.L. and Morgan, K.T. (1987). Effects of acute and chronic dimethylamine exposure on the nasal mucociliary apparatus. of F-344 rats. *Toxicol. Appl. Pharmacol.*, 90, 359-376.
52. Hurtt, M.E., Morgan, K.T., and Working, P.K. (1987). Histopathology of acute toxic responses in selected tissues from rats exposed by inhalation to methyl bromide. *Fundam. Appl. Toxicol.*, 9, 352-365.
53. Hurtt, M.E., Thomas, D.A., Working, P.K., Monticello, T.M., and Morgan, K.T. (1988). Degeneration and regeneration of the olfactory epithelium following inhalation exposure to methyl bromide: pathology, cell kinetics, and olfactory function. *Toxicol. Appl. Pharmacol.*, 94, 311-328.
54. Klonne, D.R., Ulrich, C.E., Riley, M.G., Hamm, T.E.Jr., Morgan, K.T., and Barrow, C.S. (1987). One-year inhalation toxicity study of chlorine in rhesus monkeys (*Macaca mulatta*). *Fundam. Appl. Toxicol.*, 9, 557-572.
55. Monticello, T.M., Morgan, K.T., Everitt, J.I., and Popp, J.A. (1989). Effects of formaldehyde gas on the respiratory tract of rhesus monkeys: pathology and cell proliferation. *Am. J. Pathol.*, 134, 515-527.
56. Peele, D.B., Alison, S.D., Bolon, B., Prah, J.D., Jensen, K.F., and Morgan, K.T. (1990). Functional deficits produced by 3-methylindole-induced olfactory mucosal damage revealed by a simple olfactory learning task. *Toxicol. Appl. Pharmacol.*, 107, 191-202.
57. Morgan, K.T. and Monticello, T.M. (1990). Airflow, gas deposition, and lesion distribution in the nasal passages. *Environ. Health Perspect.*, 85, 209-218.
58. Monticello, T.M., Morgan, K.T. and Uriah, L. (1990). Non-neoplastic nasal lesions in rats and mice. *Environ. Health Perspect.*, 85, 249-274.
59. Randall, H.W., Monticello, T.M., and Morgan, K.T. (1989). Large area sectioning for morphologic studies of nonhuman primate nasal cavities. *Stain Technol.*, 63, 355-362.
60. Davenport, C.J., and Morgan, K.T. (1989). In vitro neurotoxicology: industrial applications. *In Vitro Toxicology*, 2, 207-208.
61. Monticello, T.M., Morgan, K.T. and Hurtt, M. (1990). Unit length as the denominator for quantitation of cell proliferation rate in nasal epithelium. *Toxicol. Pathol.*, 18, 24-31.
62. Goldsworthy, T.L., Monticello, T.M., Morgan, K.T., Bermudez, E., Wilson, D., Jackh, R., and Butterworth, B.E. (1991). Examination of potential mechanisms

- of carcinogenicity of 1,4-dioxane in rat nasal epithelial cells and hepatocytes. Arch. Toxicol., 65, 1-9.
63. Keller, D., Randall, H.W., Heck, H.d'A, and Morgan, K.T. (1990). Histochemical localization of formaldehyde dehydrogenase. Toxicol. Appl. Pharmacol., 106, 311-326.
 64. Bonnefoi, M., Davenport, C., and Morgan, K.T. (1990). Metabolism and toxicity of methyl iodide in primary dissociated neural cell cultures. Neurotoxicol., 12, 33-46.
 65. Davenport, C., Bonnefoi, M., Williams, D., and Morgan, K.T. (1992). In vitro neurotoxicity of methyl iodide. Toxicol. in Vitro, 6, 11-20.
 67. St. Clair, M.B., Gross, E.A., and Morgan, K.T. (1990). Comparative nasal toxicity of formaldehyde and glutaraldehyde in F-344 rats using nasal instillation. Toxicol. Pathol., 18, 353-361.
 68. Cheng, Y.S., Weh, L., Hansen, B., and Morgan, K.T. (1990). Deposition of ultrafine aerosols in the nasal casts of F-344 rats. Toxicol. Appl. Pharmacol, 106, 222-233.
 69. Bonnefoi, M., Monticello, T.M., and Morgan, K.T. (199?). Toxic and neoplastic responses in the nasal passages: future research needs. Exp. Lung Res., 17, 853-868.
 70. Casanova, M., Morgan, K.T., Steinhagen, W.H., Everitt, J.I., Popp, J.A. and Heck, H.d'A. (1991). Covalent binding of inhaled formaldehyde to DNA in the respiratory tract of rhesus monkeys: pharmacokinetics, rat-to-monkey interspecies scaling, and extrapolation to man. Fundam. Appl. Toxicol., 17, 409-428.
 71. Kimbell, J.S. and Morgan, K.T. (1991). Airflow effects on regional disposition of particles and gases in the upper respiratory tract. Rad. Dos. Prot., 38, 213-219.
 72. Morgan, K.T., Kimbell, J.S., Monticello, T.M., Patra, A.L. and Fleishman, A. (1991). Studies of inspiratory airflow patterns in the nasal passages of the F344 rat and rhesus monkey using nasal molds: relevance to formaldehyde toxicity. Toxicol. Appl. Pharmacol, 110, 223-240.
 73. Monticello, T.M., Miller, F.J., and Morgan, K.T. (1991). Regional increases in rat nasal respiratory epithelial cell proliferation following acute and subacute inhalation of formaldehyde. Toxicol. Appl. Pharmacol., 111-409-421.
 74. Davenport, C., Ali, S., Miller, F.J., Lipe, G., Morgan, K.T., and Bonnefoi, M. (1991). Effect of methyl bromide on regional brain glutathione, glutathione-S-

- transferases, monoamines, and amino acids in F344 rats. *Toxicol. Appl. Pharmacol.*, 112-120-127.
75. Bolon, B., Bonnefoi, M.S., Roberts, K.C., Marshall, M.W., and Morgan, K.T. (1991). Toxic interactions in the rat nose: pollutants from soiled bedding and methyl bromide. *Toxicol. Pathol.*, 19, 571-579.
 76. Morgan, K.T. (1991). Approaches to the identification and recording of nasal lesions in toxicology studies. *Toxicol. Pathol.*, 19, 337-351.
 77. Brown, H.R., Monticello, T.M., Maronpot, R.R., Randall, H.W., Hotchkiss, J.R., and Morgan, K.T. (1991). Proliferative and neoplastic lesions in the rodent nasal cavity. *Toxicol. Pathol.*, 19, 358-372.
 78. Genter, M.B., Llorens, J., O'Callaghan, J.P., Peele, D.B., Morgan, K.T., and Crofton, K.M. (1992). Olfactory toxicity of β,β' -Iminodipropionitrile (IDPN) in the rat. *J. Pharm. Exp. Ther.*, 263, 1432-1439.
 79. Dasgupta, A., Guenard, P., Ultman, J.S., Kimbell, J.S., and Morgan, K.T. (1992). A photographic method for the visualization of mass uptake patterns in aqueous systems. *Int. J. Heat Mass Transfer*, 36, 453-462.
 80. Dye, J.A., Morgan, K.T., Neldon, D.L., Tepper, J.S., Burleson, G.R. and Costa, D.L. (1994). Characterization of respiratory disease in rats following neonatal inoculation with a rat-adapted influenza virus. *Vet. Pathol.*, 33, 43-54.
 81. Kimbell, J.S., Gross, E.A., Joyner, D.R., Godo, M.N. and Morgan, K.T. (1993). Application of computational fluid dynamics to regional dosimetry of inhaled chemicals in the upper respiratory tract of the rat. *Toxicol. Appl. Pharmacol.*, 121, 253-263.
 82. Conolly, R.B., Morgan, K.T., Andersen, M.E. Monticello, T.M., and Clewell, H.J. (1992). A biologically-based risk assessment strategy for inhaled formaldehyde. *Comments on Toxicology*, 4, 269-293.
 83. Beauchamp, R.O. Jr., St. Clair, M.B., Fennell, T.R., Clarke, D.O., Kari, F.W., and Morgan, K.T. (1992). Critical review - toxicology of glutaraldehyde. *Crit. Rev. Toxicol.*, 22, 143-174.
 84. Bolon, B., Dorman, D.C., Janszen, D., Morgan, K.T., and Welsch, F. (1993). Phase-specific developmental toxicity in mice following maternal methanol inhalation. *Fundam. Appl. Toxicol.*, 21, 508-516
 85. Bermudez, E., Chen, Z., Gross, E.A., Walker, C.L., Recio, L., Sisk, S., Pluta, L., and Morgan, K.T. (1994). Characterization of cell lines from formaldehyde-induced rat nasal squamous cell carcinomas. *Molecular Carcinogenesis*, 9, 193-199.

86. Recio, L., Sisk, S., Pluta, L., Bermudez, E., Gross, E.A., Chen, Z., Morgan, K.T., and Walker, C. (1992). p53 Mutations in formaldehyde-induced nasal squamous cell carcinomas in rats. *Cancer Res.*, 52, 6113-6116.
87. Dasgupta, A., Guenard, P., Anderson, S.M., Ultman, J.S., and Morgan, K.T. (1992). Calibration of a photographic method for imaging mass transfer in aqueous solutions. *Int. J. Heat Mass Transfer*, 38, 2029-2037.
88. Bolon, B., Dorman, D.C., Bonnefoi, M.S., Randall, H.W., and Morgan, K.T. (1993). Histopathologic approaches to chemical toxicity using primary cultures of dissociated neural cells grown in chamber slides. *Toxicol. Pathol.*, 21, 465-479.
89. Dorman, D.C., Bolon, B., and Morgan, K.T. (1993). The toxic effects of formate in dissociated primary mouse neural cell cultures. *Toxicol. Appl. Pharmacol.*, 122, 265-272.
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