



DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration
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0658 '00 SEP 29 A9:05

National Center
For Toxicological Research
3900 NCTR Road
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28 September 2000

Docket N. 00N-0930
Docket Management Branch (HFA-358)
Food and Drug Administration
5630 Fishers Lane, Room 1061
Rockville, MD 20852

To whom it may concern:

Please be advised that I am aware of my nomination to the Working Groups for the Nonclinical Studies Subcommittee of the Advisory Committee for Pharmaceutical Science of the FDA. I would be most happy to serve on the Working Group if were to be selected.

Sincerely,

Suzanne M. Morris, Ph.D.
Research Geneticist

00N-0930

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Suzanne M. Morris, Ph.D.

CURRICULM VITAE

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ADDRESS:

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EDUCATIONAL BACKGROUND:

- **Attended:** Florida Southern College, 1966-1968
- **BS**, University of Florida; major, Animal Science (Laboratory Animal Science option), 1970
- **MS**, Virginia Polytechnic Institute and State University; Department of Dairy Science (major, Reproductive Physiology); 1972
- **Ph.D**, Purdue University, Department of Animal Science (major, Genetics, minor, Physiology); 1976.
- **Postdoctoral Fellow**, Indiana University School of Medicine; Department of Medical Genetics; 1976-1978

PROFESSIONAL EXPERIENCE:

- **Graduate Research Assistant and Graduate Research Fellow**, Department of Animal Sciences, Purdue University, West Lafayette, IN. 1/73-5/76
- **Postdoctoral Fellow**, Department of Medical Genetics, Indiana University School of Medicine, Indianapolis, IN. 8/76-1/78
- **Staff Research Scientist**, Division of Research Programs and **Director, Clinical Cytogenetics Laboratory**, Charles Drew Postgraduate Medical School, Los Angeles, CA. 2/78-1/79
- **Assistant Professor**, Dept. of Pediatrics and **Director, Clinical Cytogenetics Laboratory**, Charles Drew Postgraduate Medical School, Los Angeles, CA. 1/79-7/79:
- **Junior Staff Fellow**, DMR, NCTR, Jefferson, AR. 8/79-12/83:

OUTSIDE ADVISORY ACTIVITIES:

- **MEMBER**, Site Visit Team, Minority Access to Research Careers (MARC), 1978
- **CO-CHAIR**, South Central Flow Cytometry Assn., Annual Meeting, LR, 1995
- **EDITORIAL BOARD**, Mutation Research (Reviews in Genetic Toxicology), 1994-1996.
- **EDITORIAL BOARD**, Mutation Research (Reviews in Mutation Research), 1997-1999.
- **AD HOC MEMBER**, Peer Review Committee, American Cancer Society, 1998
- **EDITORIAL BOARD**, Mutation Research (Reviews in Mutation Research), 2000 –present.
- **COUNCIL**, Environmental Mutagen Society, 2000 -present.
- **PROGRAM COMMITTEE**, Environmental Mutagen Society, 2001 Annual Meeting, 2000.
- **ORGANIZATION COMMITTEE**, Environmental Mutagen Society, 2000 – present.
- **MEMBER**, Genetic Toxicology Working Group, ILSI/HESI Subcommittee on Application of Genomics and Proteomics to Mechanism Based Risk Assessment, 2000 – present.

HONORS AND AWARDS:

- Federal Women's Program, **Woman of the Year**, Scientific and Medical Category, NCTR (1993)

Special Invitations:

- Invited Seminar - Effect of ultrasound on SCE frequency and cell cycle kinetics. Drew Medical School, Los Angeles, CA, 1977.
- Invited Lecture - Sex chromosome abnormalities in man. M.L. King, Jr., General Hospital, Genetic Counseling Course on "The Life that Lives Within". Los Angeles, CA, 1978.
- Invited Lecture - Considerations in Genetic Counseling. Loyola Marymount College, Los Angeles, CA, 1978.
- Invited Seminar - Effect of ultrasound on SCE and cell cycle kinetics. NCTR, Jefferson, AR, 1979.
- Presentation - Relationship among mutations, loss of cloning ability and sister-chromatid exchanges induced in Chinese hamster ovary cells by simple

- **Research Geneticist**, GS-12, DGT, NCTR, Jefferson, AR. 12/83-2/89
- **Research Geneticist**, GS-13, DGT, NCTR, Jefferson, AR. 2/89-2/96:
- **Research Geneticist**, GS-14, DGRT, NCTR, Jefferson, AR. 2/96 – present.
- **Acting Director**, Division of Genetic and Reproductive Toxicology, Jefferson, AR, 11-15-99 to 3-12-00.

PROFESSIONAL AND HONORARY SOCIETIES:

- Gamma Sigma Delta (elected)
- Phi Kappa Phi (elected)
- Sigma Xi (elected)
- Environmental Mutagen Society
- International Society for Analytical Cytology
- South Central Flow Cytometry Association
- AAAS

NCTR COMMITTEES AND ASSIGNMENTS:

- Research Scientist's Council "Start-Up" Committee. 1997
- Research Scientist's Council – "Ex Officio" Member, 1997-1998
- Apoptosis Discussion Group (Chair), 1995-1996
- Co-Chair, NCTR Expertise Data Base Working Group, 1997
- Mentor, NCTR Summer Student Program (mentored four students)
- Mentor, NCTR STRIVE Program, (high-school teachers research experience, mentored three participants)
- Mentor, NCTR Stay-in-School Program (mentored one student)
- Mentor, NCTR Deaf and Hearing Impaired Program, (mentored two students)
- PARTICIPANT, NCTR Senior Management "Shadowing" Detail, 1997, Mentor, NCTR Center Director, Bernard A. Schwetz, DVM, PhD, presently, Acting Deputy Commissioner, FDA and Senior Advisor for Science, FDA

FDA COMMITTEES AND ASSIGNMENTS:

- MEMBER, FDA Advisory Group on Women's Health Issues, 1984-1985
- MEMBER, Committee for the Advancement of FDA Science (CAFDAS), 1995-1998
- MEMBER, FDA Genetox Network, 1999- present
- NCTR Scientific Liaison to the FDA Office of Women's Health, 1999 - present

alkylating agents. FDA Commissioner's Colloquium on the Development of In Vitro Short-term Genetic Toxicology Tests. Bethesda, MD, 1982.

- Seminar - Alkylation-induced sister-chromatid exchange. Department of Biochemistry, University of Arkansas for Medical Sciences, Little Rock, AR, 1982.
- Presentation - Alkylation-induced mutations in Chinese hamster ovary cells. Workshop on "Applications of Chinese Hamster Ovary Cells in Industrial Toxicology", San Antonio, TX, March, 1983.
- Seminar - Alkylation-induced sister-chromatid exchange and its relationship to other genotoxic endpoints. Univ. of Texas Medical Branch, Galveston, Texas, Nov., 1983.
- Invited Presentation and Conference Proceedings - Relationship between specific DNA adducts, mutation, cell survival and SCE formation. International Symposium on Sister-Chromatid Exchanges: Twenty-Five Years of Experimental Research, Brookhaven National Laboratory, Upton, NY, December, 1983.
- Book Chapter - Morris, S.M., Casciano, D.A. and Casto, B.C. 1985. "Detection of Carcinogens Based on In Vitro Mammalian Cytogenetic Tests" in Handbook of Carcinogen Testing, eds. H.A. Melman and E.K. Weisburger, Naves Publications, Park Ridge, NY, pp. 100-115.
- Chairman - Scientific Session - "SCE: Applications and Mechanisms". Environmental Mutagen Society, Annual Meeting, 1984.
- Invited Review Paper - "The genetic toxicology of 5-bromodeoxyuridine in mammalian cells", *Mutation Res. (Reviews in Genetic Toxicology)*, 258: 161-188 (1991).
- Invited Review Paper - "The genetic toxicology of 5-fluoropyrimidines and 5-chlorouracil", *Mutation Res. (Reviews in Genetic Toxicology)* 297:39-51. (1993).
- Invited Seminar - "Programmed cell death in AHH-1 human lymphoblastoid cells", Dept. of Biology, Clark Atlanta University, Atlanta, GA., Jan., 1995.
- Invited Seminar - "Programmed cell death (apoptosis) and the response to DNA-damaging agents in human lymphoblastoid cells", Medical Dept., Brookhaven National Laboratory, Upton, NY, July, 1995.
- Invited to serve as Ad Hoc Reviewer, Peer Review Committee on Molecular Genetics and Oncogenes, American Cancer Society, 1998.
- Invited to serve on EMS Program Committee, 2000
- Invited to serve on EMS Organization Committee, 2000

BIBLIOGRAPHY (Manuscripts, Book Chapters and Symposium Proceedings):

1. **Morris, S.M.**, C.G. Palmer, F.J. Fry, and L.K. Johnson. 1978. Effect of ultrasound on peripheral blood leucocytes. Sister chromatid exchange analysis. *J. Ultrasound Medicine Biology*. 4:253-258.
2. Barren, P.R., **S.M. Morris**, H. Schol, and J.B. Bishop. 1982. A method for preparing mitotic chromosomes from the mouse. *Mutation Research*. 104:159-163.
3. Heflich, R.H., D.T. Beranek, R.L. Kodell, and **S.M. Morris**. 1982. Induction of mutations and sister-chromatid exchanges in Chinese hamster ovary cells by ethylating agents: Relationship to specific DNA adducts. *Mutation Research*. 106:147-161.
4. **Morris, S.M.**, R.H. Heflich, D.T. Beranek, and R.L. Kodell. 1982. Alkylation-induced sister-chromatid exchanges correlate with reduced cell survival, not mutations. *Mutation Research*. 105:163-168.
5. Beranek, D.T., R.H. Heflich, R.L. Kodell, **S.M. Morris**, and D.A. Casciano. 1983. Correlation between specific DNA-methylation products and mutation induction at the HGPRT locus in Chinese hamster ovary cells. *Mutation Research*. 110:171-180.
6. **Morris, S.M.**, D.T. Beranek, and R.H. Heflich. 1983. The relationship between sister-chromatid exchange induction and the formation of specific methylated DNA adducts in Chinese hamster ovary cells. *Mutation Research*. 121:261-266.
7. **Morris, S.M.** and R.H. Heflich. 1984. A comparison of the toxic and SCE-inducing effects of inhibitors of ADP-ribosyl transferase in Chinese hamster ovary cells. *Mutation Research*. 126:63-71.
8. Heflich, R.H., **S.M. Morris**, G.L. White, and F.A. Beland. 1985. The differential effect of benzamide upon the toxicity and mutations produced in Chinese hamster ovary cells by *N*-methyl nitrosourea, *N*-ethyl nitrosourea, and *N*-hydroxy-2-aminofluorene. *Mutation Research*. 142:203-207.
9. **Morris, S.M.**, R.H. Heflich, and R.L. Kodell. 1985. Correlation of sister-chromatid exchange frequency with mutation induction and cell survival in Chinese hamster ovary cells exposed to *N*-oxidized arylamines. *Cancer Research*. 45:5461-5465.
10. **Morris, S.M.**, R.H. Heflich, D.T. Beranek, F.A. Beland, and R.L. Kodell. 1985. Relationships between specific DNA adducts, mutations, cell survival, and SCE formation. In *Sister Chromatid Exchange: 25 Years of Experimental*

Research, Part A, The Nature of SCEs, R.R. Tice and A.E. Hollaender, Eds., pp.353-360, Plenum, NY.

11. **Morris, S.M.**, Casciano, D.A. and B.C. Casto. 1985. Detection of carcinogens based on *in vitro* mammalian tests. in *Handbook of Carcinogen Testing*, eds., H.A. Melman and E.K. Weisburger, Noyes Pub., Park Ridge, NJ. pp:100-115.

12. Heflich, R.H., **S.M. Morris**, D.T. Beranek, L.J. McGarrity, J.J. Chen, and F.A. Beland. 1986. Relationships between the DNA adducts and the mutations and sister-chromatid exchanges produced in Chinese hamster ovary cells by *N*-hydroxy-2-aminofluorene, *N*-hydroxy-*N*-acetylbenzidine and 1-nitrosopyrene. *Mutagenesis*. 1:201-206.

13. **Morris, S.M.**, R.L. Kodell, O.E. Domon and J.B. Bishop. 1988. Detection of TEM-induced reciprocal translocations in CD-1 mice. Comparison of sequential fertility evaluation and cytogenetic analysis. *Environmental and Molecular Mutagenesis*. 11:215-224.

14. **Morris, S.M.**, O.E. Domon, R.L. Kodell, L.J. McGarrity, and D.R. Stegall. 1988. Sister-chromatid exchange frequency, cellular replication and relative cloning ability in human teratocarcinoma-derived (P3) cells. *Cell Biology Toxicology* 4:281-294.

15. Ball, J.C., I.T. Salmeen, and **S.M. Morris**. 1989. Mutagenicity and induction of sister-chromatid exchanges by optically-active enantiomers of secondary butyl methanesulfonate. *Environmental and Molecular Mutagenesis* 13:100-107.

16. **Morris, S.M.**, L.J. McGarrity, O.E. Domon, W.G. Hinson and R.L. Kodell. 1989. Flow cytometric analysis of bromodeoxyuridine induced inhibition of cell proliferation in the human teratocarcinoma-derived cell line, P3. *Environmental and Molecular Mutagenesis* 14:107-114.

17. Aidoo, A., **S.M. Morris**, O.E. Domon, L.J. McGarrity, R.L. Kodell and D.A. Casciano. 1989. Modulation of SCE induction and cell proliferation by 2-mercaptoethanol in phytohemmagglutinin-stimulated lymphocytes. *Cell Biology and Toxicology* 5:237-248.

18. **Morris, S.M.**, A. Aidoo, O.E. Domon, L.J. McGarrity, H. Schol, W.G. Hinson, J.L. Pipkin, and D.A. Casciano. 1990. Effect of interleukin-2 on cell proliferation, sister-chromatid exchange induction, and nuclear stress protein phosphorylation in PHA-stimulated Fischer 344 rat spleen lymphocytes. Modulation by 2-mercaptoethanol. *Environmental and Molecular Mutagenesis* 15:10-18.

19. **Morris, S.M.** 1991. The genetic toxicology of 5-bromodeoxyuridine in mammalian cells. *Mutation Research (Reviews in genetic toxicology)* 258:161-188.
20. Aidoo, A., L.E. Lyn-Cook, **S.M. Morris**, R.L. Kodell, and D.A. Casciano. 1991. Comparative study on intracellular glutathione content in rat lymphocyte cultures treated with 2-mercaptoethanol and interleukin-2. *Cell Biology Toxicology* 7:215-227.
21. Littlefield, N.A., B.S. Hass, L.J. McGarrity and **S.M. Morris**. 1991. Effect of magnesium on the growth and cell cycle of transformed and non-transformed epithelial rat liver cells in vivo. *Cell Biology Toxicology* 7:215-227.
22. **Morris, S.M.**, O.E. Domon, L.J. McGarrity, R.L. Kodell and D.A. Casciano. 1991. Flow cytometric evaluation of cell-cycle progression in ethyl methanesulfonate and methyl methanesulfonate-exposed P3 cells. Relationship to the induction of sister-chromatid exchanges and cellular toxicity. *Environmental and Molecular Mutagenesis* 18:139-149.
23. **Morris, S.M.**, O.E. Domon, L.J. McGarrity, R.L. Kodell and D.A. Casciano. 1992. Effect of bromodeoxyuridine on the proliferation kinetics of ethyl methanesulfonate-exposed P3 cells. Relationship to the induction of sister-chromatid exchanges. *Cell Biology Toxicology* 8:75-87.
24. **Morris, S.M.**, O.E. Domon, L.J. McGarrity, R.L. Kodell, A. Aidoo and D.A. Casciano. 1993. The proliferation kinetics of spleen lymphocytes isolated from Fischer 344 rats exposed to ethyl nitrosourea. *Cell Biology Toxicology* 9:77-83.
25. **Morris, S.M.** 1993. The genetic toxicology of the 5-fluoropyrimidines and 5-chlorodeoxyuridine. *Mutation Research. (Reviews in Genetic Toxicology)* 297:39-51.
26. James, S.J., B. Miller, D.R. Cross, L.J. McGarrity and **S.M. Morris**. 1993. The essentiality of folate for the maintenance of deoxynucleotide precursor pools, DNA synthesis, and cell-cycle progression in PHA-stimulated lymphocytes. *Environmental Health Perspectives* 101(S5):173-178.
27. **Morris, S.M.**, L.J. McGarrity, O.E. Domon, J.J. Chen, W.G. Hinson, T.J. Bucci, A.R. Warbritton and D.A. Casciano. 1994. The role of programmed cell death in the toxicity of the mutagens, ethyl methanesulfonate and N-ethyl-N-nitrosourea, in AHH-1 human lymphoblastoid cells. *Mutation Research* 306:19-34.
28. James, S.J., B.J. Miller, L.J. McGarrity and **S.M. Morris**. 1994. The effect of folic acid and/or methionine deficiency on deoxyribonucleotide pools and cell

cycle distribution in mitogen-stimulated rat lymphocytes. *Cell Proliferation*. 27:395-406.

29. **Morris, S.M.**, O.E. Domon, B.D. Delclos, J.J. Chen and D.A. Casciano. 1994. Induction of mutations at the hypoxanthine phosphoribosyl transferase (HPRT) locus in AHH-1 human lymphoblastoid cells. *Mutation Research* 310:45-54.

30. **Morris, S.M.**, O.E. Domon, L.J. McGarrity, J.J. Chen and D.A. Casciano. 1995. Programmed cell death and mutation induction in AHH-1 human lymphoblastoid cells exposed to *m*-amsa. *Mutation Research* 329:79-96.

31. **Morris, S.M.**, L.J. McGarrity, O.E. Domon, J.J. Chen and D.A. Casciano. 1996. Cell-cycle traverse in AHH-1 *tk*^{+/-} human lymphoblastoid cells exposed to the chromosomal mutagen, *m*-amsa. *Environmental and Molecular Mutagenesis* 27:10-18.

32. Tolleson, W.H., W.B. Melchior, **S.M. Morris**, L.J. McGarrity, O.E. Domon, L. Muskhelishvili, S.J. James and P.C. Howard. 1996. Apoptosis and antiproliferative effects of fumonisin B1 in human keratinocytes, fibroblasts, esophageal epithelial cells, and hepatoma cells. *Carcinogenesis*, 17:239-249.

33. **Morris, S.M.**, O.E. Domon, L.J. McGarrity, J.J. Chen, M.G. Manjanatha, A.M. Andrews, A. Aidoo and D.A. Casciano. 1996. A role for apoptosis in the toxicity and mutagenicity of bleomycin in AHH-1 *tk*^{+/-} human lymphoblastoid cells. *Mutation Research*. 357:143-165.

34. **Morris, S.M.**, M.G. Manjanatha, S.D. Shelton, O.E. Domon, L.J. McGarrity and D.A. Casciano. 1996. A mutation in the *p53* tumor suppressor gene of AHH-1 *tk*^{+/-} human lymphoblastoid cells. *Mutation Research*., 356:129-134.

35. Aidoo, A., **S.M. Morris** and D.A. Casciano. 1997. Development and utilization of the rat lymphocyte *hprt* mutation assay. *Mutation Research*, 387, 69-88.

36. **Morris, S.M.**, J.J. Chen, O.E. Domon, L.J. McGarrity, M.E. Bishop, M.G. Manjanatha and D.A. Casciano 1998. *P53*, mutations and apoptosis in genistein-exposed human lymphoblastoid cells. *Mutation Research*, 405, 41-56.

37. Bishop, M.E., A. Aidoo, O.E. Domon, **S.M. Morris** and D.A. Casciano 1998 Phenolphthalein induces micronuclei in transgenic human lymphoblastoid cells. *Environmental and Molecular Mutagenesis*, 32, 286-288.

38. **Morris, S.M.**, A. Aidoo, J.J. Chen, M.W. Chou and D.A. Casciano. 1999. Aflatoxin B₁-induced *Hprt* mutations in splenic lymphocytes of Fischer 344 rats. Results of an intermittent feeding trial. *Mutation Research*, 423, 33-38.

- 39 Tolleson, W.H., L.H. Couch, W.B. Melchior, M. Muskhelishvili, L. Muskhelishvili, L.J. McGarrity, O.E. Domon, **S.M. Morris** and P.C. Howard. 1999. Fumonisin B1 induces apoptosis in cultured human keratinocytes by sphinganine accumulation and ceramide deprivation. *International. J. Oncology*, 14, 833-843.
40. Pipkin, J.L., W.G. Hinson, S.J. James, J.G. Shaddock, L.E. Lyn-Cook, R.J. Feuers, **S.M. Morris**, W.H. Tolleson and D.A. Casciano. 1999. The relationship of p53 and stress proteins in response to bleomycin and retinoic acid in the p53 heterozygous mouse. *Biochim. Biophys. Acta.*, 14474,1-13.
41. Domon, O.E. L.J. McGarrity, M. Bishop, M. Yoshioka, J.J. Chen and **S.M. Morris**. Evaluation of the genotoxicity of the phytoestrogen, coumestrol, in AHH-1 TK+/- human lymphoblastoid cells. Submitted to *Mutation Research*, August, 2000.
42. **Morris, S.M.**, J.L. Pipkin, W.G. Hinson, J.G. Shaddock, W.H. Tolleson, and D.A. Casciano. Decreased *in vitro* interaction between p53 and nuclear stress proteins from the p53-deficient mouse. In preparation for submission to *Electrophoresis*.