



- cerebrotendinous xanthomatosis. *Clin Genet* 2002;61:185-191.
383. Larson IA, Ordovas JM, Barnard JR, Hoffmann MM, Feussner G, Lamon-Fava S, Schaefer EJ. Effects of apolipoprotein A-I genetic variations on plasma apolipoprotein, serum lipoprotein and glucose levels. *Clin Genet* 2002;61:176-184.
384. Marsh JB, Welty FK, Lichtenstein AH, Lamon-Fava S, Schaefer EJ. Apolipoprotein B metabolism in humans: studies with stable isotope-labeled amino acid precursors. *Atherosclerosis* 2002;162:227-244.
385. Brousseau ME, O'Connor JJ, Ordovas JM, Collins D, Otvos JD, Massov T, McNamara JR, Rubins HB, Robins SJ, Schaefer EJ. Cholesteryl ester transfer protein TaqI B2B2 genotype is associated with higher HDL cholesterol levels and lower risk of coronary heart disease endpoints in men with HDL deficiency. Veterans Affairs HDL Cholesterol Intervention Trial. *Arterioscler Thromb Vasc Biol* 2002;22:1148-1154.
386. Brousseau ME, Schaefer EJ. New targets for medical treatment of lipid disorders. *Curr Athero Reports* 2002,4:343-349.
387. Asztalos BF, Horvath KV, McNamara JR, Roheim PS, Rubenstein JJ, Schaefer EJ. Comparing the effects of five different statins on the HDL subpopulation profiles of coronary heart disease patients. *Atherosclerosis* 164:361-369,2002.
388. Schaefer EJ, McNamara JR, Tayler T, Daly JA, Gleason JA, Seman LJ, Ferrari A, Rubenstein JJ. Effects of atorvastatin on fasting and postprandial lipoprotein subclasses in coronary heart disease patients versus control subjects. *Am J Cardiol* 2002,90:689-696.
389. Asztalos BF, Horvath KV, McNamara JR, Roheim PS, Rubenstein JJ, Schaefer EJ. Effects of atorvastatin on HDL subpopulation profile of coronary heart disease patients. *J Lipid Res* 2002;43:1701-1707.
390. Gleason JA, Bourdet KL, Koehn K, Holay S, Schaefer EJ. Cardiovascular risk reduction and dietary compliance with a home-delivered diet and lifestyle modification program. *J Am Diet Assoc* 2002;102:1445-1451.
391. Lichtenstein AH, Jalbert SM, Adlercreutz H, Goldin BR, Rasmussen H, Schaefer EJ, Ausman LM. Lipoprotein response to diets high in soy or animal protein with and without isoflavones in moderately hypercholesterolemic subjects. *Arterioscler Thromb Vasc Biol* 2002;22:1852-1858.
392. Rubins HB, Robins SJ, Collins D, Nelson DB, Elam MB, Schaefer EJ, Faas FH, Anderson JW. For the VA-HIT Study Group. Diabetes, plasma insulin, and cardiovascular disease. Subgroup Analysis From the Department of Veterans Affairs High-Density Lipoprotein Intervention Trial (VA-HIT). *Arch Intern Med.* 2002;162:2597-2604.
393. Bermudez OI, Velez-Carrasco W, Schaefer EJ, Tucker KL. Dietary and plasma lipid, lipoprotein, and apolipoprotein profiles among elderly Hispanics and non-Hispanics and their association with diabetes. *Am J Clin Nutr* 2002;76:1214-1221.
394. Schaefer EJ. Importance of dietary management and practical patient counseling – US perspective. *Atherosclerosis Suppl* 3,2002;17-22.
395. Lamon-Fava S, Posfai B, Schaefer EJ. Effect of hormonal replacement therapy on C-reactive protein and cell-adhesion molecules in postmenopausal women. *Am J Cardiol* 91:252-254;2003.
396. Brousseau ME, Schaefer EJ. Structure and mechanisms of action of HMG-CoA reductase inhibitors. G. Schmitz, M. Torzewski (eds). In: *Milestones in Drug Therapy*. Pp 19-34, 2003.
397. Hays NP, Bathalon GP, Meydani SN, Leka LS, Lipman R, Roubenoff R, Schaefer EJ, Roberts SB. Metabolic aging and predicted longevity: results of a cross-sectional study in post-menopausal women. *Aging Clin Exp Res* 2002;14(6):465-473.
398. Matthan NR, Giovanni A, Schaefer EJ, Brown BG, Lichtenstein AH. Impact of simvastatin, niacin, and/or antioxidants on cholesterol metabolism in CAD patients with low HDL. *J Lipid Res* 2003;44:800-806.
399. Asztalos BF, Schaefer EJ. High-density lipoprotein subpopulations in pathologic conditions. *Am J Cardiol* 2003;91(suppl):12E-17E.

400. Asztalos BF, Schaefer EJ. HDL in atherosclerosis: actor or bystander? *Atherosclerosis Supplements* 4 (2003)21-29.
401. Asztalos BF, Batista M, Horvath KV, Cox CE, Dallal GE, Morse JS, Brown GB, Schaefer EJ. Change in alpha 1 HDL concentration predicts progression in coronary artery stenosis. *Arterioscler Thromb Vasc Biol* 2003;23:847-852.
402. Santos MS, Lichtenstein AH, Leka LS, Goldin B, Schaefer EJ, Meydani SN. Immunological effects of low-fat diets with and without weight loss. *J Am Coll Nutr* 2003;22(2):174-182.
403. Lamon-Fava S, Posfai B, Asztalos BF, Horvath KV, Dallal GE, Schaefer EJ. Effects of estrogen and medroxyprogesterone acetate on subpopulations of triglyceride-rich lipoproteins and high-density lipoproteins. *Metabolism* 2003;52(10):1330-1336.
404. Li Z, Otvos JD, Lamon-Fava S, Carrasco WV, Lichtenstein AH, McNamara JR, Ordovas JM, Schaefer EJ. Men and women differ in lipoprotein response to dietary saturated fat and cholesterol restriction. *J Nutr* 2003;133:3428-3433.
405. Barzilai N, Atzmon G, Schechter C, Schaefer EJ, Cupples AL, Lipton R, Cheng S, Shuldiner AR. Unique lipoprotein phenotype and genotype associated with exceptional longevity. *JAMA* 2003;290:2030-2040.
406. Schaefer EJ, McNamara JR, Tayler T, Daly JA, Gleason JL, Seman LJ, Ferrari A, Rubenstein JJ. Comparisons of effects of statins (atorvastatin, fluvastatin, lovastatin, pravastatin, and simvastatin) on fasting and postprandial lipoproteins in patients with coronary heart disease versus control subjects. *Am J Cardiol* 2004;93:31-39.
407. Kajinami K, Brousseau ME, Ordovas JM, Schaefer EJ. CYP3A4 genotypes and plasma lipoprotein levels before and after treatment with atorvastatin in primary hypercholesterolemia. *Am J Cardiol* 2004;93:104-107.
408. Kajinami K, Brousseau ME, Nartsupha C, Ordovas JM, Schaefer EJ. ATP binding cassette transporter G5 and G8 genotypes and plasma lipoprotein levels before and after treatment with atorvastatin. *J Lipid Res* 2004;45:653-656.
409. Asztalos BF, Horvath KV, Kajinami K, Nartsupha C, Cox CE, Batista M, Schaefer EJ, Inazu A, Mabuchi H. Apolipoprotein composition of HDL cholesteryl ester transfer protein deficiency. *J Lipid Res* 2004;45:448-455.
410. Barnett JB, Woods MN, Lamon-Fava S, Schaefer EJ, McNamara JR, Spiegelman D, Hertzmark E, Goldin B, Longcope C, Gorbach SL. Plasma lipid and lipoprotein levels during the follicular and luteal phases. *J Clin Endocr Metab* 2004;89:776-782.
411. Tilly-Kiesi M, Schaefer EJ, Knudsen P, Welty FK, Dolnikowski GG, Taskinen MR, Lichtenstein AH. Lipoprotein metabolism in subjects with hepatic lipase deficiency. *Metabolism* 2004;53:520-525.
412. Kajinami K, Brousseau ME, Ordovas JM, Schaefer EJ. Polymorphisms in the multi drug resistance-1 (MDR1) gene influence the response to atorvastatin in a gender-specific manner. *Am J Cardiol* 2004;93:1046-1050.
413. Asztalos BF, Horvath KV, Kajinami K, Nartsupha C, Cox CE, Batista M, Schaefer EJ, Inazu A, Mabuchi H. Apolipoprotein composition of HDL in cholesteryl ester transfer protein deficiency. *J Lipid Res* 2004;45:448-455.
414. Brousseau ME, Schaefer EJ, Wolfe ML, Bloedan LT, Digenio AG, Clark RW, Mancuso JP, Rader DJ. Effects of an inhibitor of cholesteryl ester transfer protein on HDL cholesterol. *N Engl J Med* 2004;350:1505-1515.
415. Matthan NR, Welty FK, Barrett PHR, Harausz C, Dolnikowski GG, Parks JS, Eckel RH, Schaefer EJ, Lichtenstein AH. Dietary hydrogenated fat increases high density lipoprotein apoA-I catabolism and decreases low density lipoprotein apoB-100 catabolism in hypercholesterolemic women. *Arterioscler Thromb Vasc Biol* 2004;24:1-6.

000103

## University Service

- 1983-1992 Annual lectures in Tufts University School of Nutrition; Nutritional Biochemistry Course.  
1984-1991 Annual lecture in Tufts University School of Dental Medicine; Nutrition and Prevention Course.  
1984-present Annual lectures in Tufts University School of Medicine; Pharmacology course.  
1985-1986 Member, Search Committee for Chairman of Biochemistry.  
1985-present Member, Promotions Committee, Jean Mayer USDA Human Nutrition Research Center on Aging at Tufts University.  
1985-1989 Member, Clinical Appointments and Promotions Committee, Tufts University School of Medicine.  
1992-2000 Course Director, Clinical Nutrition and Aging, student elective.  
1993-present Annual lecturer in Tufts University School of Medicine; Nutrition Course.  
2001-present Chairman, Awards Committee, Jean Mayer USDA Human Nutrition Research Center on Aging at Tufts University

## Post-Doctoral Fellows, Visiting Scientists and Current Positions

Sander Robins, M.D., 1998-1999, Professor of Medicine, Boston University.  
Giussepina Russo, M.D., Ph.D., 1998-1999, Assistant Professor of Medicine, University of Messina, Italy.  
Eyshong Tai, M.D., 1999-2001. Assistant Professor of Medicine, University Hospital, Singapore  
Chorthip Nartsupha, M.D., 2001-2004, Assistant Professor, Mahidol University, Bangkok, Thailand  
Marcello Batista, M.D., 2001-2003, Assistant Professor, University of Sao Paolo, Brazil  
Ann McDermott, Ph.D., 2002-present.  
Kouji Kajinami, M.D., 2002-2003, Associate Professor of Medicine, University of Kanazawa, Japan  
Vanina Bongard, M.D., 2003-2004, Assistant Professor of Epidemiology, University of Toulouse, France

Graduate Students (Ph.D. Candidates, Subsequent or Current Positions).

Endocrinology Fellows with Lipid Clinic Training Rotation

Medical Students on Research Rotations

● Students on Research Rotations

● Technicians and Subsequent Positions



000108

CURRICULUM VITAE  
GARY MURRAY WILLIAMS, M.D.

EDUCATION: Washington and Jefferson College,  
Washington, Pa. B.A. 1963; Magna Cum Laude  
  
University of Pittsburgh School of Medicine,  
Pittsburgh, Pa. M.D., 1967

SUBSEQUENT TRAINING AND POSITIONS;

1967-1969 Intern and Resident in Pathology, Department of Pathology, Massachusetts General Hospital and Instructor in Pathology, Harvard University Medical School, Boston, Massachusetts.

1969-1971 Staff Associate, National Cancer Institute, Experimental Pathology Branch, Chemical Carcinogen Screening Unit, Bethesda, Maryland.

1971-1972 Visiting Scientist, Wenner-Gren Institute, Department of Cell Physiology, Stockholm, Sweden.

1971-1975 Assistant Professor, Department of Pathology, and Member, Fels Research Institute, Temple University School of Medicine, Philadelphia, Pennsylvania.

1975-1979 Chief, Division of Experimental Pathology, American Health Foundation; and Research Associate Professor, Department of Pathology, New York Medical College, Valhalla, New York.

1979-1980 Chief, Division of Pathology and Toxicology, American Health Foundation; and Research Professor, Department of Pathology, New York Medical College, Valhalla, New York.

1980-1987 Associate Director and Chief, Division of Pathology and Toxicology, American Health Foundation; Research Professor, Department of Pathology, New York Medical College, Valhalla, New York.

1987-1997 Director of Medical Sciences and Chief, Division of Pathology and Toxicology, American Health Foundation; Research Professor, Department of Pathology, New York Medical College, Valhalla, New York.

- 1997-1998 Director, Naylor Dana Institute and Chief, Division of Pathology and Toxicology, American Health Foundation; Research Professor, Department of Pathology, New York Medical College, Valhalla, New York; Visiting Lecturer, Graduate School of Health Sciences, New York Medical College, Valhalla, New York.
- 1999 - present Professor of Pathology, Department of Pathology, Director of Environmental Pathology and Toxicology, Head, Program on Medicine, Food and Chemical Safety, New York Medical College, Valhalla, New York; Affiliated Faculty, International and Public Health, School of Public Health, New York Medical College, Valhalla, New York.

#### CERTIFICATIONS:

- 1974 American Board of Pathology
- 1975 Physician, State Education Department, State of New York
- 1981 American Board of Toxicology, Recertified, 2002.
- 1984 Expert in Toxicology, Ministere des Affaires Sociales et de la Solidarite Nationale, Direction de la pharmacie et du medicament, Republic Francais
- 2000 Fellow in Toxicologic Pathology, International Academy of Toxicologic Pathology
- 2002 Fellow Royal College of Pathologists

#### AWARDS AND HONORS:

- 1963 Phi Beta Kappa, Washington and Jefferson College
- 1967 Sheard-Sandford Award, American Society of Clinical Pathologists
- 1967 Alpha Omega Alpha, University of Pittsburgh School of Medicine
- 1971 Research Training Fellowship, International Agency for Research on Cancer
- 1980 Association of University Pathologists

000110

- 1981 Invited Contributor, Special Issue Food and Cosmetics Toxicology, 9:557, 1981, dedicated to Leon Golberg
- 1982 Arnold J. Lehman Award, Society of Toxicology
- 1984 Invited Contributor, Hommage au Professeur Rene Truhaut
- 1987 Citation Classics: Cancer Lett. 1:231, 1976 and Cancer Res. 37:1845, 1977. Institute for Scientific Information, Current Contents, Vol. 30, No.36, September 7, 1987
- 1988 Citation Classics: In Vitro 12:521, 1976; 12:821, 1976; 13:809, 1977, 14:824, 1978. Institute for Scientific Information. Current Contents, Vol. 32, No. 9, February 27, 1989
- 1989 Featured on cover of Cancer Research, Volume 49, November 1
- 1995 Featured on cover of Cancer Research, Volume 55, April 15
- 1996 Awards Lecture, Society of Toxicology
- 1997 Invited Contributor, Special Issue Cancer Letters, 118:1, 1997, dedicated to Phillippe Shubik
- 1998 Top 10 Most Frequently Cited Articles in 25 years of Toxicologic Pathology Toxicologic Pathology 10:3-10, 1982; Toxicologic Pathology 26:452, 1998
- 2001 Ambassador in Toxicology Award, Mid-Atlantic Chapter of the Society of Toxicology.
- 2002 Enhancement of Animal Welfare Award, Society of Toxicology.

RECOGNITION:

- 1996-01 Who's Who in America/50th-58th (2004) Editions
- 1996-03 Who's Who in the East/26-31st Editions
- 1996-03 Who's Who in Science and Engineering/3rd-7th (2003-04) Editions
- 2003 Who's Who in American Education - 6th Edition (2004-05)
- 2004 Who's Who in Medicine and Healthcare – 5<sup>th</sup> Edition (2004-05)

000111

- 1997/1998 American Men and Women of Science  
Directory of American Research & Technology
- 1998-00 Official American Board of Medical Specialties Directory of Board  
Certified Medical Specialists 30<sup>th</sup>-33<sup>rd</sup> Editions

SOCIETIES:

- 1974 American Association for Cancer Research
- 1978 Society of Toxicology
- 1981 Society of Toxicologic Pathologists
- 1991 International Society of Regulatory Toxicology and Pharmacology

EDITORIAL RESPONSIBILITIES:

- 1980 Co-Editor, Differentiation and Carcinogenesis in Liver Cell Cultures. Vol.  
349. New York Academy of Sciences.
- 1980-1981 Consulting Reviewer, Oncology Overviews, International Cancer  
Research Data Bank.
- 1980-1986 Reviewing Editor, In Vitro.
- 1980 Co-editor, The Predictive Value of In Vitro Short-term Screening Tests in  
Carcinogenicity Evaluation. Elsevier/North Holland Biomedical Press.
- 1981-1983 Editorial Board, Fundamental and Applied Toxicology.
- 1981-1989 Editorial Board, Toxicology and Applied Pharmacology.
- 1981-1999 Editorial Board, Nutrition and Cancer.
- 1981 Meeting Report: Carcinogenesis and Gene Expression in Liver Cultures.  
Cancer Research 42:2462-2464, 1982.
- 1982 Consulting Reviewer, Oncology Overview, International Cancer Research  
Data Bank Program, National Cancer Institute.
- 1982-1993 Editorial Board, Mutation Research, Genetic Toxicology Testing Section.
- 1983 Co-Editor, Colon Carcinogenesis. CRC Press.

000112

- 1983 Co-Editor, Cellular Systems for Toxicity Testing. Vol. 407. New York Academy of Sciences.
- 1983 Co-Editor, Tests Courts de Cancerogenese/Short-term Tests for Carcinogenesis, Elsevier Science Publishers BV, Amsterdam.
- 1983-1992 Editorial Board, Chemico-Biological Interactions.
- 1983-1996 Editorial Board, Toxicologic Pathology.
- 1984-present Founding Editor, Cell Biology and Toxicology.
- 1987 Meeting Report: Causative and Modifying Factors in Digestive Tract Cancer. Cancer Research 47:922-923, 1987
- 1988-present Editorial Board, Archives of Toxicology
- 1988 Editor, Sweeteners: Health Effects, Princeton Scientific Publishing Company.
- 1989 Editorial Board, Complex Mixtures and Cancer Risk, IARC Scientific Publications, International Agency for Research on Cancer
- 1990 Meeting Report: American Health Foundation 20th Anniversary International Symposium on Causes and Prevention of Cancer. Preventive Medicine, in 20:534-547, 1991
- 1991-present International Advisory Board, European Journal of Cancer Prevention
- 1992 Proceedings of the Second International Conference on Longevity and Aging: Environmental and Nutritional Influences on Aging and Cancer Experimental Gerontology, Volume 27, Special Issue, 1992
- 1993 Editor-in-Chief, Antioxidants Chemical, Physiological, Nutritional and Toxicological Aspects, Princeton Scientific Publish. Co.
- 1994-present Area Editor for Carcinogenesis, Drug and Chemical Toxicology.
- 1997 Co-Editor, Reducing Dietary Fat: Putting Theory into Practice, Journal of The American Dietetic Association, Volume 97, Supplement 1, 1997
- 2001 Co-Editor, Toxicology, Special Issue, Volume 166, Number 3, Festschrift J.H. Weisburger.

000113

2002 Guest Editor, International Symposium on Antimutagenesis and Anticarcinogenesis, European Journal of Cancer Prevention, Volume 11, Supplement 2.

2003 Editorial Board, Toxicologic Pathology.

MEETINGS ORGANIZED:

1980 Conference on Differentiation and Carcinogenesis in Liver Cell Cultures. New York Academy of Sciences. New York, NY.

1980 Workshop on the Predictive Value of in vitro Short Term Screening Tests in the Evaluation of Carcinogenicity. Scientific Council of the Netherlands Cancer Society. Dalen, The Netherlands.

1982 Quo Vadis Symposium on Short Term Tests in Carcinogenesis and Mutagenesis. Research Center Clin-Midy. Montpellier, France.

1983 Conference on Carcinogenesis and Gene Expression in Liver Cultures United States-Japan Cooperative Cancer Research Program. Honolulu, Hawaii.

1984 Conference on Cellular Systems for Toxicity Testing, New York Academy of Sciences, New York, NY.

1986 Conference on Causative and Modulating Factors for Digestive Tract Cancer United States-Japan Cooperative Cancer Research Program. Tokyo, Japan.

1986 International Conference on Cancer Research. Theories of Carcinogenesis. The Norwegian Cancer Society, Oslo, Norway.

1986 Conference on Non-Mutagenic Carcinogens: How Much Risk to Man? The Robens Institute, University of Surrey, Guildford, England.

1987 Conference on Sweeteners: Health Effects. American Health Foundation, New York.

1987 International Symposium in Genetic Toxicology, National Science Foundation (U.S.) and Council of Scientific and Industrial Research (India), University of Calcutta, Calcutta, India.

1988 International Symposium on Causes and Prevention of Cancer, American Health Foundation in cooperation with American Cancer Society and National Cancer Institute, New York, NY.

000114

- 1989 International Conference on Environmental and Nutritional Influences on Aging and Cancer, American Health Foundation in cooperation with National Institute on Aging, New York, NY.
- 1990 Conference on Cancer Prevention for Black Americans, Metropolitan Life Insurance, Company, New York, NY.
- 1991 International Conference on Antioxidants: Chemical, Physiological, Nutritional and Toxicological Aspects, American Health Foundation, Tarrytown, NY.
- 1991 Second International Conference on Theories of Carcinogenesis. Norwegian Cancer Society, Oslo, Norway.
- 1992 1st International Short Course on Preclinical Drug and Chemical Safety, Tarrytown, NY.
- 1993 2nd International Short Course on Preclinical Drug and Chemical Safety, Tarrytown, NY.
- 1993 American Health Foundation, 25th Anniversary Conference and Celebration, Toward Optimal Health: Examining Goals for Nutrition and the Environment, Tarrytown, NY.
- 1994 3rd International Course on the Safety Assessment of Pharmaceuticals, Tarrytown, NY.
- 1995 International Congress on Hepatocytes-Applications in Cell Biology, Toxicology and Medicine, Tubingen, Germany.
- 1996 Conference, Reducing Dietary Fat: Putting Theory Into Practice, American Health Foundation, New York, NY.
- 1996 4th International Course on the Safety Assessment of Pharmaceuticals, Part I, White Plains, NY.
- 1996 4th International Course on the Safety Assessment of Pharmaceuticals, Part II, San Francisco, CA.
- 1997 5th International Course on the Safety Assessment of Medicines, Part I, White Plains, NY.
- 1998 6th International Course on the Safety Assessment of Medicine. Basic and Regulatory Aspects, White Plains, NY.

000115

- 2000 7th International Course on the Safety Assessment of Medicine.  
Basic and Regulatory Aspects, White Plains, NY.
- 2001 8th International Course on the Safety Assessment of Medicine.  
Basic and Regulatory Aspects, White Plains, NY.
- 2002 International Symposium on Antimutagenesis and Anticarcinogenesis,  
New York Medical College, Valhalla, NY
- 2002 10th International Course on the Safety Assessment of Medicines,  
Advanced Course, Hyères, Var, France.
- 2002 International Symposium on Agricultural Exposures and Cancer,  
Oxford, England.
- 2003 Symposium, Chemical Safety Assessment: Contribution of Toxicological  
Pathology and Mechanistic Investigations, New York Medical College,  
Valhalla, NY.

#### NATIONAL AND INTERNATIONAL RESPONSIBILITIES

- 1975 Consultant, Pesticides, Toxic Substance and Solid Waste Management,  
United States Environmental Protection Agency.
- 1975-1978 Member, Epidemiology Committee, Breast Cancer Task Force,  
National Cancer Institute.
- 1976-1977 Member, Program Committee, American Association for Cancer Research.
- 1976 Member, Working Group on Evaluation of Carcinogenic Risk of  
Chemicals to Man: Some Miscellaneous Pharmaceutical Substances,  
International Agency for Research on Cancer.
- 1976-1978 Co-Chairperson, Subcommittee on Rat Liver Tumors, Committee on  
Histologic Classification of Laboratory Animal Tumors, Institute of  
Laboratory Animal Resources, National Research Council.
- 1977-1978 Member, Panel on Kepone/Mirex, Scientific and Technical Assessments  
of Environmental Pollutants, Environmental Studies Board, Commission  
on Natural Resources, National Research Council.
- 1979-1980 Member, Panel on Unscheduled DNA Synthesis, Gene-Tox Program,  
U.S. Environmental Protection Agency.

000116

- 1980-1981 Member, Panel of Experts Associated with Technical Report Review Subcommittee, National Toxicology Program, Department of Health and Human Services.
- 1980 Member, Working Group on Evaluation of Carcinogenic Risk of Chemicals to Man-Antineoplastic and Immunosuppressive Drugs, International Agency for Research on Cancer.
- 1980-1986 Panel of Reviewers, Netherlands Cancer Foundation.
- 1981 Advisor, Technical Committee, Society of Toxicology.
- 1981-1982 Member, Task Group on the Differentiation Between Genotoxic and Epigenetic Carcinogens, International Commission on Protection Against Environmental Mutagens and Carcinogens.
- 1982 Member, Working Group on the Evaluation of the Carcinogenic Risk of Chemicals to Humans: Chemicals and Industrial Processes Associated with Cancer in Humans, IARC Monographs Volumes 1 to 29, International Agency for Research on Cancer.
- 1982-1983 Consultant, Office of Health and Environmental Assessment, Reproductive Effects Assessment Group, U.S. Environmental Protection Agency.
- 1982-1983 Member, International Expert Committee to the Nutrition Foundation on the Relevance of Mouse Liver as a Model for Assessing Carcinogenic Risk, Nutrition Foundation, Incorporated.
- 1982-1983 Coordinator, Assays of DNA Damage, Collaborative Study on Short-Term Tests for Genotoxicity and Carcinogenicity. International Programme on Chemical Safety, World Health Organization.
- 1983 Member, Working Group on the Mechanisms of Chemical Carcinogenesis, International Agency for Research on Cancer.
- 1983-1984 Member, Expert Committee on Pathology/Toxicology and Expert Committee on Short-Term Testing, International Life Sciences Institute.
- 1984-1987 Assessor, National Health and Medical Research Council Panel of Independent Assessors, National Health and Medical Research Council, Commonwealth of Australia.

000117

- 1984-1985 Member, Committee on the Carcinogenicity of Cyclamates, Food and Nutrition Board, Commission on Life Sciences, National Research Council.
- 1984-1985 Member, Task Group of DNA Repair, Subcommittee on Genetic Toxicology, American Society for Testing and Materials.
- 1985-1987 Member, Toxicology Study Section, National Institutes of Health.
- 1985 Vice-Chairman, Working Group on the Evaluation of the Carcinogenic Risk of Chemicals to Humans: Some Naturally Occurring Substances, Food Additives and Amino Acid Pyrolysates in Food, International Agency for Research on Cancer.
- 1985-1986 Member, Awards Committee, Society of Toxicology.
- 1986 Member, Working Group on the Evaluation of the Carcinogenic Risk of Chemicals to Humans: Genetic and Related Effects: An Updating of Selected IARC Monographs from Volumes 1 to 42, International Agency for Research on Cancer.
- 1987 Member, Working Group on the Evaluation of the Carcinogenic Risk of Chemicals to Humans: Overall Evaluations of Carcinogenicity: An Updating of IARC Monographs Volumes 1 to 42, International Agency for Research on Cancer.
- 1988 Participant, Tox-90s Conference, Society of Toxicology.
- 1989 Organizing Committee, Workshop on the Effects of pesticides on Human Health, Task Force on Environmental Cancer and Heart and Lung Disease.
- 1989 Chairman, Working Group and Chairman, Subgroup on Animal Carcinogenicity, Working Group on Evaluation of Carcinogenic Risk of Chemicals to Humans: Some Pharmaceutical Drugs, International Agency for Research on Cancer.
- 1989 Participant and Member of Editorial Board, Workshop on Complex Mixtures and Cancer Risk, International Agency for Research and Cancer.
- 1989 Participant, Working Group on Short-Term In Vitro and In Vivo Tests, Workshop on Research to Improve Predictions of Long-Term Chemical Toxicity, National Research Council.

000118

- 1990-present Member, Committee of Education on Toxicologic Pathology, International Federation of Societies of Toxicologic Pathologists.
- 1991 Member, Working Group on Approaches to Classifying Carcinogens According to Mechanisms of Action, International Agency for Research on Cancer.
- 1992-1993 Member, Expert Panel on Interpretive Review of the Potential Adverse Effects of Chlorinated Organic Chemicals on Human Health and the Environment, CanTox, Inc.
- 1993-1999 Member, Committee on Evaluation of the Research Program "Cancer Risk Factors and Prevention," German Cancer Center.
- 1993-present Member, Board of Trustees, International Life Sciences Institute, Health and Environmental Sciences Institute. Chair, Membership Development Committee, 2002-2003.
- 1993-1999 Member, Cellular Telephone Advisory Committee, Harvard Center for Risk Analysis, Harvard School of Public Health.
- 1993-1999 Wireless Technology Research Peer Review Board.
- 1993-present Member, Subcommittee on Carcinogenicity, International Federation of Societies of Toxicologic Pathologists.
- 1995-1998 Member, International Committee on Wireless Communication Health Research (ICWCHR).
- 1995-1997 Member, Committee on Research Opportunities and Priorities for EPA, Commission on Geosciences, Environment, and Resources, National Research Council.
- 1996 Reviewer, U.S. Environmental Protection Agency (EPA), PCBs: Cancer Dose-Response Assessment and Application to Environmental Mixtures.
- 1996 Participant, Developmental Planning for Office of Dietary Supplements (ODS), National Institutes of Health.
- 1996-1997 Member, Advisory Board to the Calcium Channel Blockers/Cancer Study, Boston University School of Medicine, Slone Epidemiology Unit.

000119

- 1997 Member, Working Group on Short/Medium Term Carcinogenicity Tests and Genetic and Related Effects. International Agency for Research on Cancer.
- 1998 Member, Working Group - Re-evaluation of Some Industrial Chemicals. International Agency for Research on Cancer.
- 1999-2003 Member, Subcommittee on Upper Safe Reference Levels of Nutrients, Committee on Reference Levels of Nutrients, National Academy of Sciences, Institute of Medicine.
- 1999 Member, Working Group on Predictive Value of Gastric Neuroendocrine Tumours and Forestomach Tumours in Rodents for Carcinogenic Hazard Identification. Co-Chairperson, Forestomach Tumors. International Agency for Research on Cancer.
- 2000 Member and Report Coordinator, Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) Scientific Advisory Panel. U.S. Environmental Protection Agency.
- 2000-2004 Reviewer, Office of Dietary Supplements, National Institutes of Health. Annual Bibliography of Significant Advances in Dietary Supplement Research..
- 2001-present Member, Accreditation Committee, International Academy of Toxicologic Pathology.
- 2002 Peer Review Member, U.S. Environmental Protection Agency "Perchlorate Environmental Contamination: Toxicological Review and Risk Assessment."
- 2002 Temporary Adviser, World Health Organization, 59th Meeting of the Joint FAO/WHO Expert Committee on Food Additives (JECFA), WHO.
- 2002 Participant, Joint FAO/WHO Project to Update the Principles and Methods for the Risk Assessment of Chemicals in Food. Workshop I: Introduction, Toxicological Tests & Evaluation, Human Data, Margins of Safety.
- 2003 Panelist, Dietary Supplement Use in the Elderly Conference. Office of Dietary Supplements. National Institutes of Health.
- 2003 Temporary Member, Metabolic Pathology Study Section, National Institutes of Health.

000120

2003-present

Member, Workgroup on Mechanism of Action in Assessing Human Relevance of Animal Tumors, Risk Science Institute, International Life Science Institute.

2003

Temporary Advisor, World Health Organization, 61st Meeting of the Joint FAO/WHO Expert Committee on Food Additives (JECFA), Food and Agriculture Organization.

2004

Temporary Advisor, World Health Organization, 63<sup>rd</sup> Meeting of the Joint FAO/WHO Expert Committee on Food Additives (JECFA), World Health Organization.

2004

Workshop Participant, Environmental Health Criteria Document on Principles for Modelling Dose-Response for Risk Assessment of Chemical, World Health Organization.

8/04

000121

# GARY M. WILLIAMS, M.D.

## BIBLIOGRAPHY

1969

1. PAGE, D.L. AND WILLIAMS, G.M.  
Congenital aneurysm of the pulmonary sinus of Valsalva.  
CIRCULATION, 39:841-847, 1969.
2. GOLDBLATT, P.J. AND WILLIAMS, G.M.  
Some alterations in hepatic cytosome structure and acid phosphatase activity induced by DL-ethionine.  
AMERICAN JOURNAL OF PATHOLOGY, 57:253-271, 1969.

1971

3. YAMAMOTO, R.S., WILLIAMS, G.M., FRANKEL, H.H. AND WEISBURGER, J.H.  
8-Hydroxyquinoline: chronic toxicity and inhibitory effect on the carcinogenicity of N-2-fluorenylacetamide.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 19:687-698, 1971.
4. WILLIAMS, G.M., WEISBURGER, E.K. AND WEISBURGER, J.H.  
Isolation and long-term cell culture of epithelial-like cells from rat liver.  
EXPERIMENTAL CELL RESEARCH, 69:106-112, 1971.

1972

5. WEISBURGER, J.H., YAMAMOTO, R.S., WILLIAMS, G.M., GRANTHAM, P.H., MATSUSHIMA, T. AND WEISBURGER, E.K.  
On the sulfate ester of N-hydroxy-N-2-fluorenylacetamide as a key ultimate hepatocarcinogen in the rat.  
CANCER RESEARCH, 32:491-500, 1972.
6. KROES, R., WILLIAMS, G.M. AND WEISBURGER, J.H.  
Early appearance of serum alpha-fetoprotein during hepatocarcinogenesis as a function of age of rats and extent of treatment with 3'-methyl-4-dimethylaminoazobenzene.  
CANCER RESEARCH, 32:1526-1532, 1972.

000122

7. WILLIAMS, G.M. AND YAMAMOTO, R.S.  
Absence of stainable iron from preneoplastic and neoplastic lesions in rat liver with 8-hydroxyquinoline-induced siderosis.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 49:685-694, 1972.

1973

8. KROES, R., WILLIAMS, G.M. AND WEISBURGER, J.H.  
On the precocious induction of alpha-fetoprotein by several hepatocarcinogens, including aflatoxin B1 in rats.  
In: HOST ENVIRONMENT INTERACTIONS IN THE ETIOLOGY OF CANCER IN MAN. IARC Scientific Publication, No.7, Eds. R. Doll, I. Vodopija, International Agency for Research on Cancer, Lyon pp. 307-309, 1973.
9. YAMAMOTO, R.S., WILLIAMS, G.M., RICHARDSON, H.L., WEISBURGER, E.K. AND WEISBURGER, J.H.  
Effect of P-hydroxyacetanilide on liver cancer induction by N-hydroxy-N-2-fluorenyl-acetamide.  
CANCER RESEARCH, 33:454-457, 1973.
10. WILLIAMS, G.M., ELLIOTT, J.M. AND WEISBURGER, J.H.  
Carcinoma after malignant conversion *in vitro* of epithelial-like cells from rat liver following exposure to chemical carcinogens.  
CANCER RESEARCH, 33:606-612, 1973.
11. KROES, R., WILLIAMS, G.M. AND WEISBURGER, J.H.  
Early appearance of serum alpha-fetoprotein as a function of dosage of various hepatocarcinogens.  
CANCER RESEARCH, 33:613-617, 1973.
12. WILLIAMS, G.M. AND HULTIN, T.  
Ribosomes of mouse liver following administration of dimethylnitrosamine.  
CANCER RESEARCH, 33:1796-1803, 1973.
13. WILLIAMS, G.M., STROMBERG, K. AND KROES, R.  
Cytochemical and ultrastructural alterations associated with confluent growth in cell cultures of epithelial-like cells from rat liver.  
LABORATORY INVESTIGATION, 29:293-303, 1973.
14. EHRENBERG, L., BROOKES, P., DRUCKREY, H., LAGERLOF, B., LITWIN, J. AND

WILLIAMS, G.

The relation of cancer induction and genetic damage.

In: Evaluation of Genetic Risks of Environmental Chemicals, Ed. C. Ramel,  
University of Stockholm, Stockholm, Ambio Special Report No. 3, pp. 15-16, 1973.

#### 1974

15. WILLIAMS, G.M.  
The direct toxicity of alpha-naphthylisothiocyanate in cell culture.  
CHEMICO-BIOLOGICAL INTERACTIONS, 8:363-369, 1974.
16. MICHAEL, R.O. AND WILLIAMS, G.M.  
Chloroquine inhibition of repair of DNA damage induced in mammalian cells by  
methyl methanesulfonate.  
MUTATION RESEARCH, 25:391-396, 1974.
17. WILLIAMS, G.M. AND GUNN, J.M.  
Long-term cell culture of adult rat liver epithelial cells.  
EXPERIMENTAL CELL RESEARCH, 89:139-142, 1974.

#### 1975

18. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Metabolism of chemical carcinogens.  
In: Cancer: A Comprehensive Treatise, Ed. F.F. Becker, Plenum Press, New York, pp.  
185-234, 1975.
19. WILLIAMS, G.M.  
The study of chemical carcinogenesis using cultured rat liver cells.  
In: Gene Expression and Carcinogenesis in Cultured Liver, Eds. L.E. Gerschenson and  
E.B. Thompson, Academic Press, New York, pp. 480-487, 1975.
20. KROES, R., SONTAG, J.M., SELL, S., WILLIAMS, G.M. AND WEISBURGER, J.H.  
Elevated concentrations of serum alpha-fetoprotein in rats with chemically induced  
liver tumors.  
CANCER RESEARCH, 35:1214-1217, 1975.

000124

1976

21. GUNN, J.M., SHINOZUKA, H. AND WILLIAMS, G.M.  
Enhancement of phenotypic expression in cultured malignant liver epithelial cells by a complex medium.  
JOURNAL OF CELLULAR PHYSIOLOGY, 87:79-87, 1976.
22. WILLIAMS, G.M.  
Carcinogen-induced DNA repair in primary rat liver cell cultures: a possible screen for chemical carcinogens.  
CANCER LETTERS, 1:231-236, 1976.
23. LAISHES, B.A. AND WILLIAMS, G.M.  
Conditions affecting primary cell cultures of functional adult rat hepatocytes. I. The effect of insulin.  
IN VITRO, 12:521-532, 1976.
24. WILLIAMS, G.M.  
Primary and long-term culture of adult rat liver epithelial cells.  
METHODS IN CELL BIOLOGY, 14:357-364, 1976.
25. WILLIAMS, G.M., KLAIBER, M., PARKER, S.E. AND FARBER, E.  
Nature of early appearing, carcinogen-induced liver lesions resistant to iron accumulation.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 57:157-165, 1976.
26. WILLIAMS, G.M.  
Functional markers and growth behavior of preneoplastic hepatocytes.  
Cancer Research, 36:2540-2543, 1976.
27. LAISHES, B.A. AND WILLIAMS, G.M.  
Conditions affecting primary cell cultures of functional adult rat hepatocytes. II. Dexamethasone enhanced longevity and maintenance of morphology.  
IN VITRO, 12:821-832, 1976.
28. WYNDER, E.L., REDDY, B.S., MCCOY, G.D., WEISBURGER, J.H. AND WILLIAMS, G.M.  
Diet and gastrointestinal cancer.  
In: CLINICS IN GASTROENTEROLOGY, VOL. 5, Eds. P. Sherlock and N. Zamcheck, W. B. Saunders Co., Ltd., Philadelphia, pp. 463-482, 1976.

29. WILLIAMS, G.M.  
The use of liver epithelial cultures for the study of chemical carcinogenesis.  
AMERICAN JOURNAL OF PATHOLOGY, 85:739-753, 1976.

1977

30. WILLIAMS, G.M.  
The deficiency of cyclic AMP responsive G<sub>1</sub> controls in cultured malignant liver epithelial cells.  
CANCER LETTERS, 2:239-246, 1977.
31. WYNDER, E.L., REDDY, B.S., MCCOY, G.D., WEISBURGER, J.H. AND WILLIAMS, G.M.  
Diet and cancer of the gastrointestinal tract.  
In: ADVANCES IN INTERNAL MEDICINE, VOL. 22, Ed. G.H. Stollerman, Year Book Medical Publishers, Inc., Chicago, pp. 397-419, 1977.
32. WILLIAMS, G.M.  
Detection of chemical carcinogens by unscheduled DNA synthesis in rat liver primary cell cultures.  
CANCER RESEARCH, 37:1845-1851, 1977.
33. WILLIAMS, G.M., KLAIBER, M. AND FARBER, E.  
Differences in growth of transplants of liver, liver hyperplastic nodules, and hepatocellular carcinomas in the mammary fat pad.  
AMERICAN JOURNAL OF PATHOLOGY, 89:379-390, 1977.
34. SAN, R.H.C., RICE, J.M. AND WILLIAMS, G.M.  
Lack of correlation between plasminogen activating factor production and tumorigenicity in rat liver epithelial cells.  
CANCER LETTERS, 3:243-246, 1977.
35. WILLIAMS, G.M., BERMUDEZ, E. AND SCARAMUZZINO, D.  
Rat hepatocyte primary cell cultures. III. Improved dissociation and attachment techniques and the enhancement of survival by culture medium.  
IN VITRO, 13:809-817, 1977.
36. SAN, R.H.C. AND WILLIAMS, G.M.  
Rat hepatocyte primary cell culture-mediated mutagenesis of adult rat liver epithelial cells by procarcinogens.  
PROCEEDINGS OF THE SOCIETY FOR EXPERIMENTAL BIOLOGY AND MEDICINE, 156:534-538, 1977.

000126

37. BAHNA, L., FIORE-DONATI, L., GRASSO, P., HIRAYAMA, T., LUDLUM, D.B., MASSE L., MCCANN, J., OKULOV, V.B., PREUSSMANN, R., SOMOGYI, A. AND WILLIAMS, G.M.  
IARC MONOGRAPHS ON THE EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN: SOME MISCELLANEOUS PHARMACEUTICAL SUBSTANCES, VOLUME 13, International Agency for Research on Cancer, Lyon, 253 p. 1977.

## 1978

38. WILLIAMS, G.M., TONG, C. AND BERMAN, J.J.  
Characterization of analog resistance and purine metabolism of adult rat-liver epithelial cell 8-azaguanine-resistant mutants.  
MUTATION RESEARCH, 49:103-115, 1978.
39. WILLIAMS, G.M.  
Further improvements in the hepatocyte primary culture DNA repair test for carcinogens: detection of carcinogenic biphenyl derivatives.  
CANCER LETTERS, 4:69-75, 1978.
40. WILLIAMS, G.M.  
Enhancement of hyperplastic lesions in the rat liver by the tumor promoter phenobarbital.  
In: CARCINOGENESIS, VOL 2, MECHANISMS OF TUMOR PROMOTION AND COCARCINOGENESIS, Eds. T.J. Slaga, A.Sivak and R.K. Boutwell, Raven Press, New York, pp. 449-451, 1978.
41. WILLIAMS, G.M. AND WATANABE, K.  
Quantitative kinetics of development of N-2-fluorenylacetamide-induced, altered (hyperplastic) hepatocellular foci resistant to iron accumulation and of their reversion or persistence following removal of carcinogen.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 61:113-121, 1978.
42. BERMAN, J.J., TONG, C. AND WILLIAMS, G.M.  
Enhancement of mutagenesis during cell replication of cultured liver epithelial cells.  
CANCER LETTERS, 4:277-283, 1978.
43. WILLIAMS, G.M., BERMUDEZ, E., SAN, R.H.C., GOLDBLATT, P.J. AND LASPIA, M.F.  
Rat hepatocyte primary cultures. IV. Maintenance in defined medium and the role of production of plasminogen activator and other proteases.  
IN VITRO, 14:824-837, 1978.

000127

44. LIVINGSTON, R.J., MATSUMURA, F., WILLIAMS, G.M. AND NISBET, I.C.T.  
Kepon/Mirex/Hexachlorocyclopentadiene: An Environmental Assessment, National Academy of Sciences, Washington, D.C., 73 p. 1978.
45. SCHMELTZ, I., TOSK, J. AND WILLIAMS, G.M.  
Comparison of the metabolic profiles of benzo(a)pyrene obtained from primary cell cultures and subcellular fractions derived from normal and methylcholanthrene-induced rat liver.  
CANCER LETTERS, 5:81-89, 1978.
46. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Decision point approach to carcinogen testing.  
In: STRUCTURAL CORRELATES OF CARCINOGENESIS AND MUTAGENESIS: A GUIDE TO TESTING PRIORITIES, Eds. I.M. Asher and C. Zervos, The Office of Science, FDA Rockville, MD, pp. 45-52. 1978.
47. WATANABE, K. AND WILLIAMS G.M.  
Enhancement of rat hepatocellular-altered foci by the liver tumor promoter phenobarbital: evidence that foci are precursors of neoplasms and that the promoter acts on carcinogen-induced lesions.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 61:1311-1314, 1978.
48. TONG, C. AND WILLIAMS G.M.  
Induction of purine analog-resistant mutants in adult rat liver epithelial lines by metabolic activation-dependent and independent carcinogens.  
MUTATION RESEARCH, 58:339-352, 1978.
49. RICE, J.M., PALMER, A.E., LONDON, W.T., SLY, D.L. AND WILLIAMS, G.M.  
Transplacental effects of ethylnitrosourea in the patas monkey.  
In: TUMORS OF EARLY LIFE IN MAN AND ANIMALS, Ed. L. Soveri, Perugia Quadrennial International Conferences in Cancer, Perugia, Italy, pp. 893-904, 1978.

## 1979

50. WILLIAMS, G.M., HIROTA, N. AND RICE, J.M.  
The resistance of spontaneous mouse hepatocellular neoplasms to iron accumulation during rapid iron loading by parenteral administration and their transplantability.  
AMERICAN JOURNAL OF PATHOLOGY, 94:65-74, 1979.

000128

51. WILLIAMS, G.M.  
A comparison of *in vivo* and *in vitro* metabolic activation systems.  
In: CRITICAL REVIEWS IN TOXICOLOGY-STRATEGIES FOR SHORT-TERM TESTING FOR  
MUTAGENS/CARCINOGENS, Ed. B. Butterworth, C.R.C. Press, West Palm Beach, FL,  
pp. 96-97. 1979.
52. SAN, R.H.C., LASPIA, M.F., SOIEFER, A.I., MASLANSKY, C.J., RICE, J.M. AND WILLIAMS,  
G.M.  
A survey of growth in soft agar and cell surface properties as markers for  
transformation in adult rat liver epithelial-like cell cultures.  
CANCER RESEARCH, 39:1026-1034, 1979.
53. WILLIAMS, G.M. AND LASPIA, M.F.  
The detection of various nitrosamines in the hepatocyte primary culture/DNA repair  
test.  
CANCER LETTERS, 6:199-206, 1979.
54. HIROTA, N. AND WILLIAMS, G.M.  
The sensitivity and heterogeneity of histochemical markers for altered foci involved in  
liver carcinogenesis.  
AMERICAN JOURNAL OF PATHOLOGY, 95:317-328, 1979.
55. WILLIAMS, G.M.  
Review of *in vitro* test systems using DNA damage and repair for screening of  
chemical carcinogens.  
JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 62:857-863, 1979.
56. REISS, B., WEISBURGER, J.H. AND WILLIAMS, G.M.  
Asbestos and Gastro-Intestinal Cancer: Cell Culture Studies, EPA 600/1-79-023 Office  
of Research and Development, U.S. Environmental Protection Agency, Cincinnati,  
Ohio, 37 p, 1979.
57. HIROTA, N. AND WILLIAMS, G.M.  
Persistence and growth of rat liver neoplastic nodules following cessation of  
carcinogen exposure.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 63:1257-1265, 1979.
58. WILLIAMS, G.M.  
Liver cell culture systems for the study of hepatocarcinogenesis.  
In: ADVANCES IN MEDICAL ONCOLOGY, RESEARCH AND EDUCATION. PROCEEDINGS OF  
THE XIIITH INTERNATIONAL CANCER CONGRESS, VOL.1, CARCINOGENESIS, Ed. G.P.  
Margison, Pergamon Press, New York,  
pp. 273-280, 1979.

000129

59. WILLIAMS, G.M., REDDY, B.S. AND WEISBURGER, J.H.  
The role of metabolic epidemiology and laboratory studies in the etiology of colon cancer.  
In: AVANCES IN MEDICAL ONCOLOGY RESEARCH AND EDUCATION. PROCEEDINGS OF THE XIIITH INTERNATIONAL CANCER CONGRESS, VOL. III, EPIDEMIOLOGY, Ed. M. J. Birch, Pergamon Press, New York, pp. 53-61, 1979.
60. REISS, B. AND WILLIAMS, G.M.  
Conditions affecting prolonged maintenance of mouse and rat colon in organ culture.  
IN VITRO, 15:877-890, 1979.
61. SAN, R.H.C., SHIMADA, T., MASLANSKY, C.J., KREISER, D.M., LASPIA, M.F., RICE, J.M. AND WILLIAMS, G.M.  
Growth characteristics and enzyme activities in a survey of transformation markers in adult rat liver epithelial-like cell cultures.  
CANCER RESEARCH, 39:4441-4448, 1979.

## 1980

62. WEISBURGER, J.H., MARQUARDT, H., HIROTA, N., MORI, H. AND WILLIAMS, G.M.  
Induction of cancer of the glandular stomach in rats by an extract of nitrite-treated fish.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 64:163-167, 1980.
63. WILLIAMS, G.M.  
The pathogenesis of rat liver cancer caused by chemical carcinogens.  
BIOCHEMICA ET BIOPHYSICA ACTA, 605:167-189, 1980.
64. TONG, C. AND WILLIAMS, G.M.  
Definition of conditions for the detection of genotoxic chemicals in the adult rat- liver epithelial cell/hypoxanthine-guanine phosphoribosyl transferase (ARL/HGRPT) mutagenesis assay.  
MUTATION RESEARCH, 74:1-9, 1980.
65. STEWART, H.L., WILLIAMS, G., KEYSSER, C.H., LOMBARD, L.S. AND MONTALI, R.J.  
Histologic typing of liver tumors of the rat. Institute of Laboratory Animal Resources, National Research Council, National Academy of Sciences.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 64:177-206, 1980.
66. BERMAN, J.J., TONG, C. AND WILLIAMS, G.M.  
5'-Nucleotidase activities in cultured rat liver epithelial and fibroblast cells.  
JOURNAL OF HISTOCHEMISTRY AND CYTOCHEMISTRY, 28: 174-177, 1980.

67. WILLIAMS, G.M., OHMORI, T. AND WATANABE, K.  
The persistence and phenotypic stability of transplanted rat liver neoplastic nodules.  
AMERICAN JOURNAL OF PATHOLOGY, 99:1-12, 1980.
68. WILLIAMS, G.M.  
The detection of chemical mutagens/carcinogens by DNA repair and mutagenesis in liver cultures.  
In: CHEMICAL MUTAGENS. VOL, VI, Eds. F.J. de Serres and A. Hollaender, Plenum Press, New York, pp. 61-79, 1980.
69. WEISBURGER, J.H., MARQUARDT, H., MOWER, H.F., HIROTA, N., MORI, H. AND WILLIAMS, G.  
Inhibition of carcinogenesis: vitamin C and the prevention of gastric cancer.  
PREVENTIVE MEDICINE, 9:352-361, 1980.
70. WILLIAMS, G.M., MORI, H., HIRONO, I. AND NAGAO, M.  
Genotoxicity of pyrrolizidine alkaloids in the hepatocyte primary culture/DNA- repair test.  
MUTATION RESEARCH, 79:1-5, 1980.
71. BERMAN, J.J., TONG, C. AND WILLIAMS, G.M.  
Differences between rat liver epithelial and fibroblast cells in metabolism of purines.  
JOURNAL OF CELLULAR PHYSIOLOGY, 103:393-398, 1980.
72. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Chemical carcinogens.  
In: CASARETT AND DOULL'S TOXICOLOGY: THE BASIC SCIENCE OF POISONS, 2ND EDITION, Eds. J. Doull, C.D. Klaasen and M.O. Amdur, Macmillan Pub. Co., Inc., New York, pp. 84-138, 1980.
73. WILLIAMS, G.M.  
Classification of genotoxic and epigenetic hepatocarcinogens using liver culture assays.  
ANNALS NEW YORK ACADEMY OF SCIENCES, 349:273-282, 1980.
74. REISS, B., SOLOMON, S., WEISBURGER, J.H. AND WILLIAMS, G.M.  
Comparative toxicities of different forms of asbestos in a cell culture assay.  
ENVIRONMENTAL RESEARCH, 22:109-129, 1980.
75. BERMAN, J.J., TONG, C. AND WILLIAMS, G.M.  
Differences between rat liver epithelial cells and fibroblast cells in sensitivity to 8-azaguanine.  
IN VITRO, 16:661-668, 1980.

000131

76. WILLIAMS, G.M.  
DNA repair and mutagenesis in liver cultures as indicators in chemical carcinogen screening.  
In: ADVANCES IN MODERN ENVIRONMENTAL TOXICOLOGY, VOLUME 1. MAMMALIAN CELL TRANSFORMATION BY CHEMICAL CARCINOGENS, Eds. N. Mishra, V. Dunkel and M. Mehlman, Senate Press, Princeton Junction, N.J., pp. 273-296, 1980.
77. REISS, B., MILLETTE, J.R. AND WILLIAMS, G.M.  
The activity of environmental samples in a cell culture test for asbestos toxicity.  
ENVIRONMENTAL RESEARCH, 22:315-321, 1980.
78. OHMORI, T., WATANABE, K. AND WILLIAMS, G.M.  
Absence of uniform progressive growth of long-term transplants of rat liver neoplastic nodules.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 65:485-490, 1980.
79. WILLIAMS, G.M., BORDET, C., CERUTTI, P.A., FUCHS, R.P., LAVAL, J., LUSS, H., PARODI, S., PEGG, A.E. AND RAJEWSKY, M.F.  
DNA damage and repair in mammalian cells.  
In: LONG-TERM AND SHORT-TERM SCREENING ASSAYS FOR CARCINOGENS: A CRITICAL APPRAISAL; IARC MONOGRAPHS, SUPPLEMENT 2, International Agency for Research on Cancer, Lyon, pp. 201-226, 1980.
80. WILLIAMS, G.M., MAZUE, G., MCQUEEN, C.A. AND SHIMADA, T.  
Genotoxicity of the antihypertensive drugs hydralazine and dihydralazine.  
SCIENCE, 210:329-330, 1980.
81. WILLIAMS, G.M., OHMORI, T., KATAYAMA, S. AND RICE, J.M.  
Alteration by phenobarbital of membrane-associated enzymes including gamma glutamyl transpeptidase in mouse liver neoplasms.  
CARCINOGENESIS, 1:813-818, 1980.
82. WILLIAMS, G.M.  
The predicative value of DNA damage and repair assays for carcinogenicity.  
In: THE PREDICTIVE VALUE OF SHORT-TERM SCREENING TESTS IN CARCINOGENICITY EVALUATION, Eds. G.M. Williams, R. Kroes, H.W. Waaijers, and K.W. van de Poll, Elsevier/North Holland Biomedical Press, Amsterdam, pp. 213-230, 1980.

000132

83. WILLIAMS, G.M.  
Batteries of short-term tests for carcinogen screening.  
In: THE PREDICTIVE VALUE OF *IN VITRO* SHORT-TERM SCREENING TESTS IN  
CARCINOGENICITY EVALUATION, Eds. G.M. Williams, R. Kroes, H.W. Waaijers, and  
K.W. van de Poll, Elsevier/North Holland Biomedical Press, Amsterdam,  
pp. 327-346, 1980.
84. POIRIER, M.C., WILLIAMS, G.M. AND YUSPA, S.H.  
Effect of culture conditions, cell type and species of origin on the distribution of  
acetylated and deacetylated deoxyguanosine C-8 adducts of  
N-acetoxy-2-acetylaminofluorene.  
MOLECULAR PHARMACOLOGY, 18:581-587, 1980.
85. TONG, C., FAZIO, M. AND WILLIAMS, G.M.  
Cell cycle-specific mutagenesis at the hypoxanthine phosphoribosyl-transferase locus  
in adult rat liver epithelial cells.  
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, 77:7377-7379, 1980.

### 1981

86. WILLIAMS, G.M.  
Liver culture indicators for the detection of chemical carcinogens.  
In: SHORT TERM TESTS FOR CHEMICAL CARCINOGENS, Eds. H.F. Stich, R.H.C. San;  
Springer-Verlag, New York, pp. 277-289, 1981.
87. WILLIAMS, G.M., TELANG, S. AND TONG, C.  
Inhibition of intercellular communication between liver cells by the liver tumor  
promoter 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane.  
CANCER LETTERS, 11:339-344, 1981.
88. OHMORI, T., RICE, J.M. AND WILLIAMS, G.M.  
Histochemical characteristics of spontaneous and chemically induced hepatocellular  
neoplasms in mice and the development of neoplasms with gamma-glutamyl  
transpeptidase activity during phenobarbital exposure.  
HISTOCHEMICAL JOURNAL, 13:85-99, 1981.
89. WILLIAMS, G.M. AND WEISBURGER, J.H.  
Systematic carcinogen testing through the decision point approach.  
ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY, 21:393-416, 1981.

000133

90. MCQUEEN, C.A., MASLANSKY, C.J., CRESCENZI, S.B. AND WILLIAMS, G.M.  
The genotoxicity of 4,4'-methylenebis-2-chloroaniline in rat, mouse, and hamster, hepatocytes.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 58:231-235, 1981.
91. WILLIAMS, G.M.  
Epigenetic mechanisms of action of carcinogenic organochlorine pesticides.  
In: THE PESTICIDE CHEMIST AND MODERN TOXICOLOGY, American Chemical Society Symposium Series 160, Eds. S. K. Dandal, G. J. Marco, L. Golberg and M. L. Leng, American Chemical Society, Washington, D.C., pp. 45-56, 1981.
92. WILLIAMS, G.M., WEISBURGER, J.H. AND BRUSICK, D.  
The role of genetic toxicology in a scheme of systematic carcinogen testing.  
In: THE PESTICIDE CHEMIST AND MODERN TOXICOLOGY, American Chemical Society Symposium Series 160, Eds. S. K. Bandal, G. J. Marco, L. Golberg and M. L. Leng, American Chemical Society, Washington, D.C., pp. 57-87, 1981.
93. WILLIAMS, G.M., CHANDRASEKARAN, V., KATAYAMA, S. AND WEISBURGER, J. H.  
Carcinogenicity of 3-methyl-2-naphthylamine and 3,2'-dimethyl-4-aminobiphenyl to the bladder and gastrointestinal tract of the Syrian golden hamster with atypical proliferative enteritis.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 67:481-488, 1981.
94. TONG, C. LASPIA, M.F., TELANG, S. AND WILLIAMS, G.M.  
The use of adult rat liver cultures in the detection of the genotoxicity of various polycyclic aromatic hydrocarbons.  
ENVIRONMENTAL MUTAGENESIS, 3:477-487, 1981.
95. WILLIAMS, G.M., LASPIA, M.F., MORI, H. AND HIRONO, I.  
Genotoxicity of cycasin in the hepatocyte primary culture/DNA repair test supplemented with B-glucosidase.  
CANCER LETTERS, 12:329-333, 1981.
96. WILLIAMS, G.M.  
The detection of genotoxic chemicals in the hepatocyte primary culture/DNA repair test.  
In: MUTATION PROMOTION AND TRANSFORMATION, Eds. N. Inui, T. Kuroki, M-A. Yamada and C. Heidelberger, Gann Monograph on Cancer Research, 27:45-55, 1981.
97. TONG, C., BRAT, S.V. AND WILLIAMS, G.M.  
Sister-chromatid exchange induction by polycyclic aromatic hydrocarbons in an intact cell system of adult rat-liver epithelial cells.  
MUTATION RESEARCH, 91:467-473, 1981.

000134

98. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Carcinogen testing: current problems and new approaches.  
SCIENCE, 214:401-407, 1981.
99. MORI, H., DOMELLOF, L., WEISBURGER, J.H. AND WILLIAMS, G.M.  
Enhancing effect of vagotomy and pyloroplasty on gastrointestinal carcinogenesis induced by nitrosamide.  
GANN, 72:440-445, 1981.
100. WILLIAMS, G.M. AND WYNDER, E.L.  
Nutrition and cancer.  
In: NUTRITION AND METABOLISM IN CANCER, Eds. R. Kluthe and G-W. Lohr, George Thieme Verlag, Stuttgart, pp. 1-7, 1981.
101. WILLIAMS, G.M.  
Biochemical and biological indices of the toxicity of xenobiotics in liver cell cultures.  
In: ORGAN-DIRECTED TOXICITY. CHEMICAL INDICES AND MECHANISMS, Eds. S.S. Brown and D. S.Davies, Pergamon Press, New York, pp. 131-145 1981.
102. TONG, C., FAZIO, M. AND WILLIAMS, G.M.  
Rat hepatocyte-mediated mutagenesis of human cells by carcinogenic polycyclic aromatic hydrocarbons but not organochlorine pesticides.  
PROCEEDINGS OF THE SOCIETY FOR EXPERIMENTAL BIOLOGY AND MEDICINE, 167:572-575, 1981.
103. MASLANSKY, C.J. AND WILLIAMS, G.M.  
Evidence for an epigenetic mode of action in organochlorine pesticide hepatocarcinogenicity: a lack of genotoxicity in rat, mouse and hamster hepatocytes.  
JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH, 8:121-130, 1981.
104. MCQUEEN, C.A. AND WILLIAMS, G.M.  
Characterization of DNA repair elicited by carcinogens and drugs in the hepatocyte primary culture/DNA repair test.  
JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH, 8:463-477, 1981.
105. WILLIAMS, G.M., KATAYAMA, S. AND OHMORI, T.  
Enhancement of hepatocarcinogenesis by sequential administration of chemicals: summation versus promotion effects.  
CARCINOGENESIS, 2:1111-1117, 1981.
106. WEISBURGER, J.H. AND WILLIAMS, G.M.  
The decision-point approach for systematic carcinogen testing.  
FOOD AND COSMETICS TOXICOLOGY, 19:561-566, 1981.

000135

107. WILLIAMS, G.M.  
Liver carcinogenesis: the role for some chemicals of an epigenetic mechanism of liver tumour promotion involving modification of the cell membrane.  
FOOD AND COSMETICS TOXICOLOGY, 19:577-583, 1981.
108. FIALA, E.S., WEISBURGER, J.H., KATAYAMA, S., CHANDRASEKARAN, V. AND WILLIAMS, G.M.  
The effect of disulfiram on the carcinogenicity of 3,2'dimethyl-4-aminobiphenyl in Syrian Golden hamsters and rats.  
CARCINOGENESIS, 2:965-969, 1981.
109. MORI, H., TANAKA, T., NISHIKAWA, A., TAKAHASHI, M. AND WILLIAMS, G.M.  
Enhancing effect of barbital on N-2-fluorenylacetamide-induced rat liver lesions.  
GANN, 72:798-801, 1981.
110. DUNKEL, V.C. AND WILLIAMS, G.M.  
Biological significance of end-points in *In Vitro* test systems for carcinogenicity and mutagenicity.  
In: PROCEEDINGS OF THE THIRD LIFE SCIENCES SYMPOSIUM ON HEALTH RISK ANALYSIS, Eds. C.R. Richmond, P.J. Walsh and E.D. Copenhauer, The Franklin Press, Philadelphia, pp. 237-247, 1981.
111. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Basic requirements for health risk analysis: the decision point approach for systematic carcinogen testing.  
In: PROCEEDINGS OF THE THIRD LIFE SCIENCES SYMPOSIUM ON HEALTH RISK ANALYSIS, Eds. C. R. Richmond, P. J. Walsh and E. D. Copenhauer, The Franklin Press, Philadelphia, pp. 249-271, 1981.
112. RICE, J.M., WILLIAMS, G.M., PALMER, A.E., LONDON, W.T. AND SLY, D.L.  
Pathology of gestational choriocarcinoma induced in patas monkeys by ethylnitrosourea given during pregnancy.  
PLACENTA, Supplement 3:223-230, 1981.
113. WILLIAMS, G.M.  
Mammalian culture systems for the study of genetic effects of N-substituted aryl compounds.  
In: CARCINOGENIC AND MUTAGENIC N-SUBSTITUTED ARYL COMPOUNDS, Eds. S. Thorgeirsson and E.K. Weisburger. NATIONAL CANCER INSTITUTE MONOGRAPH, 58:237-242, 1981.

114. DOMELLOF, L. ERIKSSON, S., MORI, H., WEISBURGER, J.H. AND WILLIAMS, G.M.  
Effect of bile acid gavage or vagotomy and pyloroplasty on gastrointestinal carcinogenesis.  
THE AMERICAN JOURNAL OF SURGERY, 142:551-554, 1981.
115. ALTHOUSE, R., BENEDICT, W.F., CALVERT, H., CLAVEL, M., CONNORS, T.A., CORDERO, J.F., FIORE-DONATI, L., GREENE, M.H., GRIESEMER, R.A., HABS, M., KINLEN, L., MACK., T.M., MARQUARDT, H., MCVIE, J.G., NEUBERT, D., PENN, I., SCHMAHL, D., TOURAINÉ, J.L., TRUHOUT, R., TURUSOV, V. AND WILLIAMS, G.M.  
IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Some Antineoplastic and Immunosuppressive Agents, Volume 26, International Agency for Research on Cancer, Lyon, 411 p, 1981.
116. WILLIAMS, G.M.  
An epigenetic mechanism of carcinogenicity of organochlorine pesticides.  
In: TOXICOLOGY OF HALOGENATED HYDROCARBONS: HEALTH AND ECOLOGICAL EFFECTS, Eds. M.A.Q. Khan and R.H. Stanton, Pergamon Press, New York, pp. 161-170, 1981.

## 1982

117. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Metabolism of chemical carcinogens.  
In: CANCER: A COMPREHENSIVE TREATISE, VOL. 1., Ed. F.F. Becker, Plenum Press, New York, pp. 241-333, 1982.
118. WILLIAMS, G.M.  
Editorial. Sex hormones and liver cancer.  
LABORATORY INVESTIGATION, 46:352-354, 1982.
119. MCQUEEN, C.A., MASLANSKY, C.J., GLOWINSKI, I.B., CRESCENZI, S.B., WEBER, W.W. AND WILLIAMS, G.M.  
Relationship between the genetically determined acetylator phenotype and DNA damage by hydralazine and 2-aminofluorene in cultured rabbit hepatocytes.  
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, 79:1269-1272, 1982.
120. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Chemical carcinogenesis.  
In: CANCER MEDICINE, 2ND EDITION, Eds. J.F. Holland and E. Frei III, Lea and Fabiger, Philadelphia, pp. 42-95, 1982.

000137

121. REISS, B., SOLOMON, S., TONG, C., LEVENSTEIN, M., ROSENBERG, S.H. AND WILLIAMS, G.M.  
Absence of mutagenic activity of three forms of asbestos in liver epithelial cells.  
ENVIRONMENTAL RESEARCH, 27:389-397, 1982.
122. HIROTA, N. AND WILLIAMS, G.M.  
Ultrastructural abnormalities in carcinogen-induced hepatocellular altered foci identified by resistance to iron accumulation.  
CANCER RESEARCH, 42:2298-2309, 1982.
123. HIROTA, N., HAMAZAKI, M. AND WILLIAMS, G.M.  
Resistance to iron accumulation and presence of hepatitis B surface antigen in preneoplastic and neoplastic lesions in human hemochromatotic livers.  
HEPATO-GASTROENTEROLOGY, 29:49-51, 1982.
124. VED BRAT, S., TONG, C. AND WILLIAMS, G.M.  
Detection of genotoxic airborne chemicals in rat liver culture systems.  
In: GENOTOXIC EFFECTS OF AIRBORNE AGENTS, Eds. R. Tice, D. L. Costa and K. M. Schaich, Plenum Publishing Corp., New York, pp.619-631, 1982.
125. KATAYAMA, S., FIALA, E., REDDY, R.S., RIVENSON, A., SILVERMAN, J., WILLIAMS, G.M. AND WEISBURGER, J.H.  
Prostate adenocarcinoma in rats: induction by 3,2'-dimethyl-4-aminobiphenyl.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 68:867-873, 1982.
126. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Classification of carcinogens as genotoxic and epigenetic as basis for improved toxicologic bioassay methods.  
In: ENVIRONMENTAL MUTAGENS AND CARCINOGENS, Eds. T. Sugimura, S. Kondo and H. Takebe, University of Tokyo Press, Tokyo/Alan R. Liss, Inc., New York Inc., pp. 283-294, 1982.
127. TELANG, N.T. AND WILLIAMS, G.M.  
Carcinogen-induced DNA damage and cellular alterations in F344 rat colon organ cultures.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 68:1015-1022, 1982.
128. MAZUE, G., REMANDET, B., GOUY, D., BERTHE, J., RONCUCCI, R. AND WILLIAMS, G.M.  
Limited *in vivo* bioassays on some benzodiazepines: lack of experimental initiating or promoting effect of the benzodiazepine tranquilizers diazepam, clorazepate, oxazepam and lorazepam.  
ARCHIVES INTERNATIONALES DE PHARMACODYNAMIE ET DE THERAPIE, 257:59-65, 1982.

000138

129. MCQUEEN, C.A. AND WILLIAMS, G.M.  
Cytotoxicity of xenobiotics in adult rat hepatocytes in primary culture.  
FUNDAMENTAL AND APPLIED TOXICOLOGY, 2:139-144, 1982.
130. HECHT, S.S., REISS, B., LIN, D. AND WILLIAMS, G.M.  
Metabolism of N'-nitrosomornicotine by cultured rat esophagus.  
CARCINOGENESIS, 3:453-456, 1982.
131. WILLIAMS, G.M.  
Neoplastic transformation in liver epithelial cell cultures.  
In: *IN VITRO* EPITHELIAL CELL DIFFERENTIATION AND NEOPLASIA, Eds. G.J. Smith and B.W. Stewart.  
CANCER FORUM, 6:120-129, 1982.
132. WILLIAMS, G.M.  
*In vivo* and *in vitro* markers of liver cell transformation.  
In: *IN VITRO* EPITHELIAL CELL DIFFERENTIATION AND NEOPLASIA, Eds. G.J. Smith and B.W. Stewart.  
CANCER FORUM, 6:166-172, 1982.
133. WILLIAMS, G.M., LASPIA, M.F. AND DUNKEL, V.C.  
Reliability of the hepatocyte primary culture/DNA repair test in testing of coded carcinogens and noncarcinogens.  
MUTATION RESEARCH, 97:359-370, 1982.
134. MASLANSKY, C.J. AND WILLIAMS, G.M.  
Primary cultures and the levels of cytochrome P-450 in hepatocytes from mouse, rat, hamster and rabbit liver.  
IN VITRO, 18:683-693, 1982.
135. MORI, H., MU, B. AND WILLIAMS, G.M.  
Isolation and enrichment of cells resistant to iron accumulation from carcinogen-induced rat liver enzyme altered foci.  
EXPERIMENTAL AND MOLECULAR PATHOLOGY, 37:101-110, 1982.
136. TELANG, S., TONG, C. AND WILLIAMS, G.M.  
Epigenetic membrane effects of a possible tumor promoting type on cultured liver cells by the nongenotoxic organochlorine pesticides chlordane and heptachlor.  
CARCINOGENESIS, 3:1175-1178, 1982.
137. MORI, H., TANAKA, T., SUGIE, S., TAKASHASHI, M. AND WILLIAMS, G.M.  
DNA content of liver cell nuclei of N-2-fluorenylacetamide-induced altered foci and neoplasms in rats and human hyperplastic foci.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 69:1277-1282, 1982.

000139

138. OHMORI, T., HIASA, Y., MURATA, Y. AND WILLIAMS, G.M.  
Gamma glutamyl transpeptidase activity in carcinogen-induced epithelial lesions of rat kidney.  
GANN, 73:543-548, 1982.
139. VED BRAT, S. AND WILLIAMS, G.M.  
Hepatocyte-mediated production of sister chromatid exchange in co-cultured cells by acrylonitrile: evidence for extracellular transport of a stable reactive intermediate.  
CANCER LETTERS, 117:213-216, 1982.
140. MCQUEEN, C.A. AND WILLIAMS, G.M.  
Determination of host genetic susceptibility to genotoxic chemicals in hepatocyte cultures.  
In: HOST FACTORS IN HUMAN CARCINOGENESIS, Eds. H. Bartsch and B. Armstrong, IARC Scientific Publications No. 39, International Agency for Research on Cancer, Lyon, pp. 413-420, 1982.
141. WILLIAMS, G.M., WEISBURGER, J.H. AND WYNDER, E.L.  
Life-style and cancer etiology.  
In: CARCINOGENS AND MUTAGENS IN THE ENVIRONMENT, VOLUME 1: FOOD PRODUCTS, Ed. H.F. Stich, CRC Press, Boca Raton, FL, pp. 53-64, 1982.
142. ACHESON, E.D., ARMSTRONG, B.K., BLOT, W.J., BROWN, A.L., CHERNOZEMSKY, I.N., DELLA PORTA, G., EVANS, H.J., GRIESEMER, R.A., HARRINGTON, J.M., HERNBERG, S., HOEL, D.G., KAUFMAN, D.G., KINLEN, L.J., MACK, T.M., MAGEE, P.N., MATSUSHIMA, T., PREUSSMANN, R., SHAPIRO, S., TURUSOV, V., TRYOLER, H.A., VENITT, S., WEINSTEIN, I.B. AND WILLIAMS, G.M.  
IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO HUMANS CHEMICALS INDUSTRIAL PROCESSES AND INDUSTRIES ASSOCIATED WITH CANCER IN HUMANS, IARC MONOGRAPHS, VOLUMES 1 TO 29, IARC MONOGRAPH SUPPLEMENT 4, International Agency for Research on Cancer, Lyon, 292 p, 1982.
143. WILLIAMS, G.M.  
Phenotypic properties of preneoplastic rat liver lesions and applications to detection of carcinogens and tumor promoters.  
TOXICOLOGIC PATHOLOGY, 10:3-10, 1982.

1983

144. MCQUEEN, C.A., KREISER, D.M. AND WILLIAMS, G.M.  
The hepatocyte primary culture/DNA repair assay using mouse or hamster hepatocytes.  
ENVIRONMENTAL MUTAGENESIS, 5:1-8, 1983.

000140

145. REISS, B., TELANG, N.T. AND WILLIAMS, G.M.  
The application of organ culture to the study of colon carcinogenesis.  
In: EXPERIMENTAL COLON CARCINOGENESIS, Eds. H. Atrup and G.M. Williams, CRC Press, Boca Raton, FL, pp. 83-94, 1983.
146. WILLIAMS, G.M., MAEURA, Y. AND WEISBURGER, J.H.  
Simultaneous inhibition of liver carcinogenicity and enhancement of bladder carcinogenicity of N-2-fluorenylacetamide by butylated hydroxytoluene.  
CANCER LETTERS, 19:55-60, 1983.
147. REISS, B., TONG, C., TELANG, S. AND WILLIAMS, G.M.  
Enhancement of benzo(a)pyrene mutagenicity by chrysotile asbestos in rat liver epithelial cells.  
ENVIRONMENTAL RESEARCH, 31:100-104, 1983.
148. WILLIAMS, G.M. AND WEISBURGER, J.H.  
New approaches to carcinogen bioassay.  
In: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON SAFETY EVALUATION AND REGULATION OF CHEMICALS, Ed. F. Homburger, Karger, Basel, pp. 200-209, 1983.
149. WILLIAMS, G.M., MORI, H. AND OHMORI, T.  
Cytochemical markers in rodent hepatocarcinogenesis.  
In: LECTURES IN TOXICOLOGY, Ed. G. Zbinden, Pergamon Press, Oxford, pp. 1-4, 1983.
150. MCQUEEN, C.A. AND WILLIAMS, G.M.  
The use of cells from rat, mouse, hamster and rabbit in the hepatocyte primary culture/DNA repair test.  
ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, 407:119-130, 1983.
151. WILLIAMS, G.M.  
Genotoxic and epigenetic carcinogens: their identification and significance.  
ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, 407:328-333, 1983.
152. MASLANSKY, C.J. AND WILLIAMS, G.M.  
DNA repair in hepatocyte primary cultures derived from the rat, mouse, hamster, guinea pig and rabbit.  
ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, 407:451-453, 1983.
153. VED BRAT, S., TONG, C., TELANG, S. AND WILLIAMS, G.M.  
Comparison of sister chromatid exchange and mammalian cell mutagenesis at the hypoxanthine guanine phosphoribosyl transferase locus in adult rat liver epithelial cells.  
ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, 407:474-475, 1983.

154. WILLIAMS, G.M.  
Epigenetic effects of liver tumor promoters and implications for health effects.  
ENVIRONMENTAL HEALTH PERSPECTIVES, 50:177-183, 1983.
155. WEISBURGER, J.H. AND WILLIAMS, G.M.  
The distinct health risk analyses required for genotoxic carcinogens and promoting agents.  
ENVIRONMENTAL HEALTH PERSPECTIVES, 50:233-245, 1983.
156. WILLIAMS, G.M. AND WEISBURGER, J.H.  
Risk assessment of dietary carcinogens and tumor promoters.  
In: DIET NUTRITION AND CANCER: FROM BASIC RESEARCH TO POLICY IMPLICATIONS,  
Ed. D.A. Roe, A.R. Liss, Inc., New York, pp. 203-219, 1983.
157. WILLIAMS, G.M.  
Organochlorine pesticides and inhibition of intercellular communication as the mechanism for their liver tumor induction.  
In: PROCEEDINGS OF THE FIFTH INTERNATIONAL CONGRESS OF PESTICIDES, VOL. III,  
Eds. J. Miyamoto, S. Matsunaka, D.H. Hutson, S.D. Murphy. Pergamon Press, Oxford, pp. 475-478, 1983.
158. WILLIAMS, G.M.  
Limited *in vivo* liver bioassays for identifying long-term biological effects.  
In: PROCEEDINGS OF THE FIFTH INTERNATIONAL CONGRESS OF PESTICIDES, VOL. III,  
Eds. J. Miyamoto, S. Matsunaka, D.H. Hutson, S.D. Murphy, Pergamon Press, Oxford, pp. 511-514, 1983.
159. FURUYA, K., MORI, H. AND WILLIAMS, G.M.  
An enhancing effect of the antihistaminic drug methapyrilene on rat liver carcinogenesis by previously administered N-2-fluorenylacetamide.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 70:49-56, 1983.
160. WILLIAMS, G.M. AND WEISBURGER, J.H.  
Carcinogenesis-chemistry.  
In: A GUIDE TO GENERAL TOXICOLOGY, Eds. F. Homburger, J. A. Hayes, and E. W. Pelikan, Karger, Basel, pp. 212-226, 1983.
161. MASLANSKY, C.J. AND WILLIAMS, G.M.  
Isolation and culture of primary hepatocytes derived from rat, mouse, hamster, guinea pig and rabbit.  
In: ISOLATION, CHARACTERIZATION, AND USE OF HEPATOCYTES, Eds. R.A. Harris and N.W. Cornell, Elsevier Science Publishing Co. Inc., New York, pp. 87-92, 1983.

162. TONG, C., VED BRAT, S., TELANG, S., LASPIA, M.F., FAZIO, M., REISS, B. AND WILLIAMS, G.M.  
Effects of genotoxic polycyclic aromatic hydrocarbons in rat liver culture systems.  
In: POLYCYCLIC AROMATIC HYDROCARBONS: FORMATION METABOLISM AND MEASUREMENT, Eds. M. Cooke and A.J. Dennis, Battelle Press, Columbus, Ohio, pp. 1189-1203, 1983.
163. WILLIAMS, G.M.  
Indices for identification of genotoxic and epigenetic carcinogens in cell culture.  
In: APPLICATION OF BIOLOGICAL MARKERS TO CARCINOGEN TESTING, Eds. H. A. Milman and S. Sell, Plenum Press Publishing Corp., New York, pp. 165-175, 1983.
164. MORI, H., TANAKA, T., TAKAHASHI, M. AND WILLIAMS, G.M.  
Exclusion of cellular iron and reduced gamma-glutamyl transpeptidase activity in rat pancreas acinar cell hyperplastic nodules and adenomas induced by azaserine.  
GANN, 74:497-501, 1983.
165. AARONSON, R., ACHESON, E.D., ARMSTRONG, B.K., BARRETT, J.C., BERN, H.A., BRESLOW, N., CERUTTI, P.A., DELLA PORTA, G., EVANS, H.J., ZUR HAUSEN, H., VAN DER HEIJDEN, C.A., HOFNUNG, M., HUBERMAN, E., KINLEN, L., LUCIER, G.W., MACK, T., MAGEE, P.N., MATSUNAGA, E., MATSUSHIMA, T., MENDELSON, M.L., NEUBERT, D., PETO, R., PITOT, H.C., RAJEWSKY, M.F., RAMEL, C., STEWART, B. AND WILLIAMS, G.M.  
APPROACHES TO CLASSIFYING CHEMICAL CARCINOGENS ACCORDING TO MECHANISM OF ACTION. IARC INTERNAL TECHNICAL REPORT NO. 83/001, International Agency for Research on Cancer, Lyon, 69 p. 1983.
166. MORI, H., FURUYA, K. AND WILLIAMS, G.M.  
Enhanced survival and absence of progressive growth of transplanted rat liver altered eosinophilic foci and neoplastic nodules in phenobarbital-treated rats.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 71:849-854, 1983.
167. MCQUEEN, C.A., MASLANSKY, C.J. AND WILLIAMS, G.M.  
Role of the acetylation polymorphism in determining susceptibility of cultured rabbit hepatocytes to DNA damage by aromatic amines.  
CANCER RESEARCH, 43:3120-3123, 1983.
168. WILLIAMS, G.M.  
Drug effects during development and carcinogenicity.  
In: PROCEEDINGS OF THE SECOND CONGRESS OF THE EUROPEAN ASSOCIATION FOR VETERINARY PHARMACOLOGY AND TOXICOLOGY, Eds. Y. Ruckebusch, P.L. Toutain and G.D Koritz, MTP Press, Boston, pp. 73-92, 1983.

000143

169. WILLIAMS, G.M.  
Mechanisms of action of foodborne carcinogens.  
In: ENVIRONMENTAL ASPECTS OF CANCER; THE ROLE OF MACRO AND MICRO COMPONENTS OF FOOD, Eds. E.L. Wynder, G.A. Leveille, J.H. Weisburger and G.E. Livingston, Food and Nutrition Press, Inc., Westport, CT., pp. 83-100, 1983.
170. SHIMADA, T., FURUKAWA, K., KREISER, D.M., CAWEIN, A. AND WILLIAMS, G.M.  
Induction of transformation by six classes of chemical carcinogens in adult rat liver epithelial cells.  
CANCER RESEARCH, 43:5087-5092, 1983.
171. MITCHELL, A.D., CASCIANO, D.A., MELTZ, M.L., ROBINSON, D.E., SAN, R.H.C., WILLIAMS, G.M. AND VON HALLE, E.S.  
Unscheduled DNA synthesis tests. A report of the U.S. Environmental Protection Agency Gene-Tox Program.  
MUTATION RESEARCH, 123:363-410, 1983.
172. MILLER, M.S., HUANG, M-T. WILLIAMS, G.M., JEFFREY, A.M. AND CONNEY, A.H.  
Effects of betamethasone on the *in vitro* and *in vivo* 2-hydroxylation of biphenyl in the rat.  
DRUG METABOLISM AND DISPOSTION, 11:556-561, 1983.
173. WILLIAMS, G.M. AND MORI, H.  
Liver carcinogenesis by chemicals through promotion mechanism involving modification of the cell membrane.  
JOURNAL OF PESTICIDE SCIENCE, 8:619-625, 1983.
174. WEISBURGER, J.H. AND WILLIAMS, G.M.  
New, efficient approaches to test for carcinogenicity of chemicals based on their mechanisms of action.  
In: CURRENT PROBLEMS IN DRUG TOXICOLOGY, Eds. G. Zbinden, J.Y. Detaille, G. Mazue, John Libbey and Co., Ltd., Paris, pp. 22-43, 1983.
175. DOULL, J., BRIDGES, B.A., KROES, R., GOLBERG, L., MUNRO, I.C., PAYNTER, O.E., PITOT, H.C., SQUIRE, R., WILLIAMS, G.M. AND DARBY, W.J.  
In: THE RELEVANCE OF MOUSE LIVER HEPATOMA TO HUMAN CARCINOGENIC RISK.  
The Nutrition Foundation, Inc. Washington, D.C., 34 p. 1983.

000144

- 175a. Weisburger, J.H. and Williams, G.M.  
Genotoxic and epigenetic carcinogens.  
In: QUO VADIS? SHORT-TERM TEST FOR CARCINOGENESIS, Eds. S. Garattini, G. Mazue, R. Roncucci, G.M. Williams, Elsevier Science Publishers, Amsterdam, pp. 209-226, 1983.
- 175b. WILLIAMS, G.M.  
DNA repair in hepatocytes as a short-term test for carcinogens .  
In: QUO VADIS? SHORT-TERM TEST FOR CARCINOGENESIS, Eds. S. Garattini, G. Mazue, R. Roncucci, G.M. Williams, Elsevier Science Publishers, Amsterdam, pp. 309-326, 1983.

### 1984

176. WILLIAMS, G.M AND FURUYA, K.  
Distinction between liver neoplasm promoting and syncarcinogenic effects demonstrated by exposure to phenobarbital or diethylnitrosamine either before or after N-2-fluorenylacetamide.  
CARCINOGENESIS, 5:171-174, 1984.
177. FURUKAWA, K., MAEURA, Y., FURUKAWA, N.T. AND WILLIAMS, G.M.  
Induction by butylated hydroxytoluene of rat liver gamma-glutamyl transpeptidase activity in comparison to expression in carcinogen-induced altered lesions.  
CHEMICO-BIOLOGICAL INTERACTIONS, 48:43-58, 1984.
178. REISS, B. AND WILLIAMS, G.M  
A comparison of different nutrient media and supplementation with dexamethasone for mouse colon organ culture.  
CELL BIOLOGY AND TOXICOLOGY, 1:11-19, 1984.
179. TONG, C., TELANG, S. AND WILLIAMS, G.M.  
Differences in responses of 4 adult rat-liver epithelial cell lines to a spectrum of chemical mutagens.  
MUTATION RESEARCH, 130:53-61, 1984.
180. MAEURA, Y., WEISBURGER, J.H. AND WILLIAMS, G.M.  
Dose-dependent reduction of N-2-fluorenylacetamide-induced liver cancer and enhancement of bladder cancer in rats by butylated hydroxytoluene.  
CANCER RESEARCH, 44:1604-1610, 1984.

000145

181. REMANDET, B., GOUY, D., BERTHE, J., MAZUE, G. AND WILLIAMS, G.M.  
Lack of initiating or promoting activity of six benzodiazepine tranquilizers in rat liver limited bioassays monitored by histopathology and assay of liver and plasma enzymes. FUNDAMENTAL AND APPLIED TOXICOLOGY, 4:152-163, 1984.
182. MAEURA, Y. AND WILLIAMS, G.M.  
Enhancing effect of butylated hydroxytoluene on the development of liver altered foci and neoplasms induced by N-2-fluorenylacetamide in rats. FOOD AND CHEMICAL TOXICOLOGY, 22:191-198, 1984.
183. VED BRAT, S. AND WILLIAMS, G.M.  
Nitrilotriacetic acid does not induce sister-chromatid exchanges in hamster or human cells. FOOD AND CHEMICAL TOXICOLOGY, 22:211-215, 1984.
184. HELLEMANN, A.L., MASLANSKY, C.J., BOSLAND, M. AND WILLIAMS, G.M.  
Rat liver DNA damage by the non-hepatocarcinogen 3,2'-dimethyl-4-aminobiphenyl. CANCER LETTERS, 22:211-218, 1984.
185. CONAWAY, C.C., TONG, C. AND WILLIAMS, G.M.  
Evaluation of morpholine, 3-morpholinone, and N-substituted morpholines in the rat hepatocyte primary culture/DNA repair test. MUTATION RESEARCH, 136:153-157, 1984.
186. SCHMIDT, W.N., MCGEHEE, R.H., SHIMADA, T., WILLIAMS, G.M. AND HNILICA, L.S.  
Antigenic similarity of nonhistone chromosomal proteins in cultured rat liver epithelial cells, fetal liver, and transplantable tumors. CANCER RESEARCH, 44:2163-2169, 1984.
187. FURUYA, K. AND WILLIAMS, G.M.  
Neoplastic conversion in rat liver by the antihistamine methapyrilene demonstrated by a sequential syncarcinogenic effect with N-2-fluorenylacetamide. TOXICOLOGY AND APPLIED PHARMACOLOGY, 74:63-69, 1984.
188. MORI, H., KAWAI, K., OHBAYASHI, F., KUNYASU, T., YAMAZAKI, M., HAMASAKI, T. AND WILLIAMS, G.M.  
Genotoxicity of a variety of mycotoxins in the hepatocyte primary culture/DNA repair test using rat and mouse hepatocytes. CANCER RESEARCH, 44:2918-2923, 1984.

189. WILLIAMS, G.M.  
Modulation of chemical carcinogenesis by xenobiotics.  
FUNDAMENTAL AND APPLIED TOXICOLOGY, 4:325-344, 1984.
190. MORI, H., OHBAYASHI, F., HIRONO, I., SHIMADA, T. AND WILLIAMS, G.M.  
Absence of genotoxicity of the carcinogenic sulfated polysaccharides carrageenan and dextran sulfate in mammalian DNA repair and bacterial mutagenicity assays.  
NUTRITION AND CANCER, 6:92-97, 1984.
191. KATAYAMA, S., OHMORI, T., MAEURA, Y., CROCI, T. AND WILLIAMS, G.M.  
Early stages of N-2-fluorenylacetamide-induced hepatocarcinogenesis in male and female rats and effect of gonadectomy on liver neoplastic conversion and neoplastic development.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 73:141-149, 1984.
192. WILLIAMS, G.M., TONG, C. AND TELANG, S.  
Polybrominated biphenyls are nongenotoxic and produce an epigenetic membrane effect in cultured liver cells.  
ENVIRONMENTAL RESEARCH, 34:310-320, 1984.
193. WILLIAMS, G. M.  
Sex hormones and liver cancer.  
ADVANCES IN THE BIOLOGY OF DISEASE VOL. 1, Eds. E. Rubin, I. Damjanov, pp. 199-201, 1984.
194. LAWSON, T.A., MIRVISH, S.S., POUR, P. AND WILLIAMS, G.  
Persistence of DNA single-strand breaks and other tests as indicators of the liver carcinogenicity of 1-nitroso-5,6-dihydrouracil and the noncarcinogenicity of 1-nitroso-5,6-dihydrothymine.  
JOURNAL OF NATIONAL CANCER INSTITUTE, 73:515-519, 1984.
195. WILLIAMS, G.M.  
The significance of environmental chemicals as modifying factors in toxicity studies.  
CONCEPTS IN TOXICOLOGY, 1:14-19, 1984.
196. RIVENSON, A., MU, B., SILVERMAN, J. AND WILLIAMS, G.M.  
Chemically induced rat odontomas: morphogenetic considerations.  
CANCER DETECTION AND PREVENTION, 7:293-298, 1984.
197. FURUYA, K., MAEURA, Y., AND WILLIAMS, G.M.  
Abnormalities in liver iron accumulation during N-2-fluorenylacetamide hepatocarcinogenesis that are dependent or independent of continued carcinogen action.  
TOXICOLOGIC PATHOLOGY, 12:136-142, 1984.

000147

198. WILLIAMS, G.M.  
DNA damage and repair tests for the detection of genotoxic agents.  
FOOD ADDITIVES AND CONTAMINANTS, 1:173-178, 1984.
199. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Bioassay of carcinogens: *in vitro* and *in vivo* tests.  
In: CHEMICAL CARCINOGENS, 2ND EDITION, VOL. 2, Ed. C.E. Searle, ACS Monograph  
182, American Chemical Society, Washington, D.C.,  
pp. 1323-1373, 1984.
200. NUMOTO, S., FURUKAWA, K., FURUYA, K. AND WILLIAMS, G.M.  
Effects of the hepatocarcinogenic peroxisome-proliferating hypolipidemic agents  
clofibrate and nafenopin on the rat liver cell membrane enzymes gamma-  
glutamyltranspeptidase and alkaline phosphatase and on the early stages of liver  
carcinogenesis.  
CARCINOGENESIS, 5:1603-1611, 1984.
201. WILLIAMS, G.M. AND NUMOTO, S.  
Promotion of mouse liver neoplasms by the organochlorine pesticides chlordane and  
heptachlor in comparison to dichlorodiphenyltrichloroethane.  
CARCINOGENESIS, 5:1689-1696, 1984.
202. TANAKA, T., MORI, H., TAKAHASHI, M. AND WILLIAMS, G.M.  
DNA content of hyperplastic and neoplastic acinar cell lesions in rat and human  
pancreas.  
JOURNAL OF EXPERIMENTAL PATHOLOGY, 1:315-326, 1984.
203. ANDERSON, R.L., ARNOLD, D.L., CARLSON, R.G., CHANG, C., CLARKE, M.D., CLAYSON,  
D.B., DAI, Y., EMERSON, J.L., FISHBEIN, L., GARATTINI, S., GRICE, H.C., HESS, R.,  
KIRSCHMAN, J.C., KREWSKI, D., KROES, R., MILLER, C.T., MUNRO, I.C., OLSEN, P.,  
PARKE, D.V., ROBERTS, J.J., SQUIRE, R.A., STANLEY, J.W., SUGAR, J., TAKAYAMA, S.,  
TRYPHONAS, H. AND WILLIAMS, G.M.  
Interpretation and extrapolation of chemical and biological carcinogenicity data to  
establish human safety standards.  
In: CURRENT ISSUES IN TOXICOLOGY, Ed. H.C. Grice, Springer Verlag,  
New York, pp. 1-152, 1984.

204. BUTTERWORTH, B.E., DOUGLAS, G., DUNKEL, V.C., GRICE, H.C., HAYNES, R., JENSEN, J.C., KREWSKI, D., KROES, R., LEWKOWSKI, J.P., MILLER, C., MOLINARY, S., RAY, V., ROBERTS, J.J. AND WILLIAMS, G.M.  
The use of short-term tests for mutagenicity and carcinogenicity in chemical hazard evaluation.  
In: CURRENT ISSUES IN TOXICOLOGY, Ed. H.C. Grice, Springer-Verlag, New York, pp. 153-197, 1984.
205. UPTON, A.C., CLAYSON, D.B., JANSEN, J.D., ROSENKRANZ, H.S. AND WILLIAMS, G.M.  
Report of ICPEMC Task Group 5 on the differentiation between genotoxic and non-genotoxic carcinogens.  
MUTATION RESEARCH, 133:1-49, 1984.

## 1985

206. MASLANSKY, C.J. AND WILLIAMS, G.M.  
Methods for the initiation and use of hepatocyte primary cultures from various species to detect metabolic activation of carcinogens.  
In: *IN VITRO* MODELS FOR CANCER RESEARCH, Eds. M.M. Webber and L.I. Sekely, CRC Press, FL. pp. 43-60, 1985.
207. BERMAN, J.J., TONG, C. AND WILLIAMS, G.M.  
Toxicity of 6-thioguanine and 8-azaguanine to non-dividing liver cell cultures.  
CELL BIOLOGY AND TOXICOLOGY, 1:67-73, 1985.
208. BARNES, W.S., LOVELETTE, C.A., TONG, C., WILLIAMS, G.M. AND WEISBURGER, J.H.  
Genotoxicity of the food mutagen 2-amino-3-methylimidazo[4,5-f] quinoline (IQ) and analogs.  
CARCINOGENESIS, 6:441-444, 1985.
209. MASLANSKY, C.J. AND WILLIAMS, G.M.  
Ultraviolet light-induced DNA repair synthesis in hepatocytes from species of differing longevities.  
MECHANISMS OF AGEING AND DEVELOPMENT, 29:191-203, 1985.

210. WILLIAMS, G.M.  
Types of enhancement of carcinogenesis and influences on human cancer.  
In: CARCINOGENESIS A COMPREHENSIVE SURVEY: VOL. 8. CANCER OF THE  
RESPIRATORY TRACT: PREDISPOSING FACTORS, Eds. M.J. Mass, D.G. Kaufman, J.M.  
Siegfried, V.E. Steele, S. Nesnow, Raven Press, New York, pp. 447-457, 1985.
211. WILLIAMS, G.M., BARRATT, R., BRADLEY, M., DOUGLAS, G., GLAUERT, H.,  
LAKHANISKY, T., MARTIN, C. AND PROBST, G.  
Summary report on the performance of the assays for DNA damage.  
In: PROGRESS IN MUTATION RESEARCH, VOL. 5, EVALUATION OF SHORT-TERM TESTS  
FOR CARCINOGENS, Eds. J. Ashby, F.J. DeSerres, M. Draper, M. Ishidate, B.H.  
Margolin, B. F. Matter, M.D. Shelby, Elsevier Science Publishers, Amsterdam, pp.  
59-67, 1985.
212. WILLIAMS, G.M., TONG, C., VED BRAT, S.  
Tests with the rat hepatocyte primary culture/DNA-repair test.  
In: PROGRESS IN MUTATION RESEARCH, VOL. 5, EVALUATION OF SHORT-TERM TESTS  
FOR CARCINOGENS, Eds. J. Ashby, F.J. DeSerres, M. Draper, M. Ishidate, B.H.  
Margolin, B.F. Matter, M.D. Shelby, Elsevier Science Publishers, Amsterdam, pp.  
341-345, 1985.
213. FURUYA, K. AND WILLIAMS, G.M.  
Iron exclusion by proliferative foci and neoplastic lesions induced by  
7,12-dimethylbenz(a)anthracene in the rat adrenal cortex.  
HISTOCHEMICAL JOURNAL, 17:213-221, 1985.
214. WILLIAMS, G.M.  
Interaction of host and lifestyle factors with occupational chemicals in cancer  
causation.  
In: CARCINOGENS AND MUTAGENS IN THE ENVIRONMENT, VOL. IV, THE WORKPLACE:  
MONITORING AND PREVENTION OF OCCUPATIONAL HAZARDS, Ed. H.F. Stich, CRC  
Press, FL, pp. 27-32, 1985.
215. WEISBURGER, J.H., AND WILLIAMS, G.M.  
Controversies in carcinogenesis: health risk analyses for carcinogens.  
In: SAFETY EVALUATION AND REGULATION OF CHEMICALS 2. IMPACT OF  
REGULATIONS-IMPROVEMENT OF METHODS, Ed. F. Homhurger, Karger, Basel, pp.  
150-165, 1985.

216. WILLIAMS, G.M.  
Genotoxic and epigenetic carcinogens.  
In: SAFETY EVALUATION AND REGULATION OF CHEMICALS 2. IMPACT OF REGULATIONS  
- IMPROVEMENT OF METHODS, Ed. F. Homburger, Karger, Basel, pp. 251-256, 1985.
217. HAVEL, R.J., GRIESEMER, R.A., LAGAKOS, S.W., MUNRO, I.C., PITOT H.C., ROSENKRANZ,  
H.S., STELLMAN, S., TARDIFF, R.G., THOMAS, D.B., WARD, J.M., WEINHOUSE, S. AND  
WILLIAMS, G.M.  
Evaluation of Cyclamate for Carcinogenicity, National Academy Press, Washington,  
DC, 196 p. 1985.
218. MORI, H., SUGIE, S., YOSHIMI, N., ASADA, Y., FURUYA, T., AND WILLIAMS, G.M.  
Genotoxicity of a variety of pyrrolizidine alkaloids in the hepatocyte primary culture-  
DNA repair test using rat, mouse, and hamster hepatocytes.  
CANCER RESEARCH, 45:3125-3129, 1985.
219. TANAKA, T., BARNES, W.S., WILLIAMS, G.M., WEISBURGER, J.H.  
Multipotential carcinogenicity of the fried food mutagen 2-amino-3-  
methylimidazo[4,5-f]quinoline in rats.  
JAPANESE JOURNAL OF CANCER RESEARCH, 76:570-576, 1985.
220. WILLIAMS, G.M.  
Identification of genotoxic and epigenetic carcinogens in liver culture systems.  
REGULATORY TOXICOLOGY AND PHARMACOLOGY, 5:132-144, 1985.
221. MORI, H., SUGIE, S., OHBAYASHI, F., SHIMA, H., YOSHIMI, N., TAKAHASHI, M., AND  
WILLIAMS, G.M.  
Reduced DNA repair response of cells from carcinogen-induced rat liver altered foci  
exposed to chemical carcinogens in culture.  
CARCINOGENESIS, 6:1087-1090, 1985.
222. WANG, C.X., WATANABE, K., WEISBURGER, J.H. AND WILLIAMS, G.M.  
Induction of colon cancer in inbred Syrian hamsters by intrarectal administration of  
benzo(a)pyrene, 3-methylcholanthrene and N-methyl-N-nitrosourea.  
CANCER LETTERS, 27:309-314, 1985.
223. MCQUEEN, C.A. AND WILLIAMS, G.M.  
Methods and modifications of the hepatocyte primary culture/DNA repair test.  
In: HANDBOOK OF CARCINOGEN TESTING, Eds. H.A. Milman and  
E.K. Weisburger, Noyes Publications, Park Ridge, NJ, pp. 116-129, 1985.

000151

224. SHIMADA, T., SWANSON, A.F., LEBER, P. AND WILLIAMS, G.M.  
Activities of chlorinated ethane and ethylene compounds in the salmonella/rat microsome mutagenesis and rat hepatocyte/DNA repair assays under vapor phase exposure conditions.  
CELL BIOLOGY AND TOXICOLOGY, 1:159-179, 1985.
225. MCQUEEN, C.A. AND WILLIAMS, G.M.  
Mammalian cell DNA repair assays for carcinogens.  
In: MECHANISMS AND TOXICITY OF CHEMICAL CARCINOGENS AND MUTAGENS. ADVANCES IN ENVIRONMENTAL TOXICOLOGY, VOL. XI, Eds. G. Flamm and R. Lorentzen, Princeton Scientific Publishers, Princeton, NJ, pp. 129-151, 1985.
226. WILLIAMS, G.M., REISS, B. AND WEISBURGER, J.H.  
A comparison of the animal and human carcinogenicity of several environmental, occupational and therapeutic chemicals.  
In: MECHANISMS AND TOXICITY OF CHEMICAL CARCINOGENS AND MUTAGENS. ADVANCES IN ENVIRONMENTAL TOXICOLOGY, VOL. IX, Eds. G. Flamm and R. Lorentzen, Princeton Scientific Publishers, Princeton, NJ, pp. 207-248, 1985.
227. FURUKAWA, K., NUMOTO, S., FURUYA, K., FURUKAWA, N.T. AND WILLIAMS, G.M.  
Effect of the hepatocarcinogen nafenopin, a peroxisome proliferator, on the activities of rat liver glutathione-requiring enzymes and catalase in comparison to the action of phenobarbital.  
CANCER RESEARCH, 45:5011-5019, 1985.
228. CROCI, T. AND WILLIAMS, G.M.  
Activities of several phase I and phase II xenobiotic biotransformation enzymes in cultured hepatocytes from male and female rats.  
BIOCHEMICAL PHARMACOLOGY, 34:3029-3035, 1985.
229. NUMOTO, S., MORI, H., FURUYA, K., LEVINE, W.G. AND WILLIAMS, G.M.  
Absence of a promoting or sequential syncarcinogenic effect in rat liver by the carcinogenic hypolipidemic drug nafenopin given after N-2-fluorenylacetylamide.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 77:76-85, 1985.
230. WILLIAMS, G.M. AND WEISBURGER, J.H.  
Carcinogenicity testing of drugs.  
In: PROGRESS IN DRUG RESEARCH, VOL. 29, Ed. E. Jucker, Birkhauser Verlag, Basel, pp. 155-213, 1985.

231. WILLIAMS, G.M.  
Food and cancer.  
NUTRITION INTERNATIONAL, 1:49-59, 1985.
232. WILLIAMS, G.M.  
Chemical carcinogens: mechanistically homogeneous or heterogeneous?  
In: HOMMAGE AU PROFESSEUR RENE TRUHAUT, Imprieries Tardv Quercy, (S.A.),  
Cahors, France, pp. 1207-1211, 1985.
233. NUMOTO, R., TANAKA, T. AND WILLIAMS, G.M.  
Morphological and cytochemical properties of mouse liver neoplasms induced by  
diethylnitrosamine and promoted by 4,4'-dichlorodiphenyltrichloroethane, chlordane,  
or heptachlor.  
TOXICOLOGIC PATHOLOGY, 13:325-334, 1985.

## 1986

234. MORI, H., MORI, Y., SUGIE, S., YOSHIMI, N. TAKAHASHI, M., NI-I, H., YAMAZAKI, H,  
TOYOSHI, K. AND WILLIAMS, G.M.  
Genotoxicity of a variety of azobenzene and aminoazobenzene compounds in the  
hepatocyte/DNA repair test and the salmonella/mutagenicity test.  
CANCER RESEARCH, 46:1654-1658, 1986.
235. STENBACK, F., MORI, H., FURUYA, K. AND WILLIAMS, G.M.  
Pathogenesis of dimethylnitrosamine-induced hepatocellular cancer in hamster liver  
and lack of enhancement by phenobarbital.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 76:327-333, 1986.
236. WILLIAMS, G.M.  
Food-borne carcinogens.  
In: GENETIC TOXICOLOGY OF THE DIET, Ed., I. Knudsen, Allen R. Liss, Inc., New York,  
pp. 73-81, 1986.
237. GEBHARDT, R. AND WILLIAMS, G.M.  
Amino acid transport in established adult rat liver epithelial cell lines.  
CELL BIOLOGY AND TOXICOLOGY, 2:9-20, 1986.

238. TANAKA, T., MORI, H., HIROTA, N., FURUYA K. AND WILLIAMS, G.M.  
Effect of DNA synthesis on induction of preneoplastic and neoplastic lesions in rat liver by a single dose of methylazoxymethanol acetate.  
CHEMICO-BIOLOGICAL INTERACTIONS, 58:13-27, 1986.
239. WILLIAMS, G.M., TANAKA, T. AND MAEURA, Y.  
Dose-dependent inhibition of aflatoxin B<sub>1</sub> induced hepatocarcinogenesis by the phenolic antioxidants, butylated hydroxyanisole and butylated hydroxytoluene.  
CARCINOGENESIS, 7:1043-1050, 1986.
240. MEREDITH, M.J. AND WILLIAMS, G.M.  
Intracellular glutathione cycling by gamma-glutamyl transpeptidase in tumorigenic and non-tumorigenic cultured rat liver cells.  
JOURNAL OF BIOLOGICAL CHEMISTRY, 261:4986-4992, 1986.
241. WEISBURGER, J.H., BARNES, W.S., LOVELETTE, C.A., TONG, C., TANAKA, T., AND WILLIAMS, G.M.  
Genotoxicity, carcinogenicity, and mode of action of the fried food mutagen 2-amino-3-methylimidazo(4,5-f)quinoline (IQ).  
ENVIRONMENTAL HEALTH PERSPECTIVES, 67:121-127, 1986.
242. WILLIAMS, G.M. AND WEISBURGER, J.H.  
Food and cancer: cause and effect?  
In: SURGICAL CLINICS OF NORTH AMERICA, Eds. M.M. Meguid and S.J. Dudrick, 66:873-889, 1986.
243. WILLIAMS, G.M. AND WEISBURGER, J.H.  
Chemical carcinogens.  
In: CASARETT AND DOULL'S TOXICOLOGY: THE BASIC SCIENCES OF POISON, 3RD EDITION, Eds. C.D. Klaassen, M.O. Amdur, J. Doull, Macmillan Publish. Co., New York, pp. 99-173, 1986.
244. MCQUEEN, C.A., MILLER, M.J. AND WILLIAMS, G.M.  
Sex differences in the biotransformation of 2-acetylaminofluorene in cultured rat hepatocytes.  
CELL BIOLOGY AND TOXICOLOGY, 2:271-281, 1986.
245. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Rational decision points in carcinogenicity bioassays based on mechanisms of mutagenesis and carcinogenesis.  
In: GENETIC TOXICOLOGY OF ENVIRONMENTAL CHEMICALS, PART B: GENETIC EFFECTS AND APPLIED MUTAGENESIS. FOURTH INTERNATIONAL CONFERENCE OF ENVIRONMENTAL MUTAGENS, Alan R. Liss, Inc., New York, pp. 91-98, 1986.

246. WILLIAMS, G.M.  
Epigenetic promoting effects of butylated hydroxyanisole.  
FOOD AND CHEMICAL TOXICOLOGY, 24:1163-1166, 1986.
247. WILLIAMS, G.M.  
Cellular effects of chemical carcinogens.  
In: NEW CONCEPTS AND DEVELOPMENTS IN TOXICOLOGY, Eds: P.L.Chambers, P. Gehring and F. Sakai, Elsevier Science Publishers, Amsterdam, pp. 371-382, 1986.
248. BANNASCH, P., GRIESEMER, R.A., ANDERS, F., BECKER, R., CABRAL, J.R., DELLA PORTA, G., FERON, V.J., HENSCHLER, D., ITO, N., KROES, R., MAGEE, P.N., MCKNIGHT, B., MONTESANO, R., NAPALOV, N.P., NESNOW, R., ROBERFROID, M., SLAGA, T., TUROSOV, V.S., WILBOURN, J. AND WILLIAMS, G.M.  
Report 3, Assays for Initiating and Promoting Activities, pp. 103-126;
249. VENITT, S., BARTSCH, H., BECKING, G., FUCHS, R.P.P., FNUNG, M., MALAVEILLE, C., MATSUSHIMA, T., PEGG, A.E., RAJEWSKY, M.R., ROBERFROID, M., ROSENKRANZ, H.S. AND WILLIAMS, G.M.  
Report 4, DNA Damage and Repair, pp. 129- 142;
248. BARRETT, J.C., KAKUNAGA, T., KUROKI, T., NEUBERT, D., TROSKO, J.E., VASILIEV, J.M., WILLIAMS, G.M. AND YAMASAKI, H.  
Report 9, Mammalian Cell Transformation in Culture, pp. 267-286;
- BARRETT, J.C., KAKUNAGA, T., KUROKI, T., NEUBERT, D., TROSKO, J.E., VASILIEV, J.M., WILLIAMS, G.M. AND YAMASAKI, H.  
Report 10, *In-Vitro* Assays that may be Predictive Tumor-Promoting Agents, pp. 287-302.  
In: LONG-TERM AND SHORT-TERM ASSAYS FOR CARCINOGENS: A CRITICAL APPRAISAL, IARC Scientific Publications, No. 83, Montesano, R., Bartsch, H., Vainio, H., Wilbourn, J. and Yamasaki, H. International Agency for Research on Cancer, Lyon, France, 1986.
249. WEISBURGER, J.H., TANAKA, T., BARNES, W.S. AND WILLIAMS, G.M.  
Mutagens and carcinogens formed during cooking.  
In: BIOLOGICAL REACTIVE INTERMEDIATES III, Eds. J.J. Kocsis, D.J. Jollow, C.M. Witmer, J.O. Nelson, R. Snyder, Plenum Publishing Corporation, New York, pp. 621-629, 1986.

250. ARLETT, C.F., ARMSTRONG, B.K., AUSTWICK, P.K.C., AVERBECK, D., BASS, R., BERAL, V., DALL'AQUA, F., EMMETT, E.A., GRISHAM, J.W., VAN DER HEIJDEN, C.A., HUFF, J.E., ITO, N., KNUDSEN, I., NAGAO, M., RAFTER, J., SKEGG, D.C.G., STENBACK, F., WILLIAMS, G.M., YOUNG, A.R., ZAJDELA, F. AND ZETTERBERG, G.  
IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO HUMANS: SOME NATURALLY OCCURRING AND SYNTHETIC FOOD COMPONENTS. FUROCOUMARINS AND ULTRAVIOLET RADIATION, VOL.40, International Agency for Research on Cancer, Lyon, 444 p. 1986.

1987

251. MCQUEEN, C.A., WAY, B.M. AND WILLIAMS, G.M.  
Biotransformation of aromatic amines to DNA-damaging products by urinary bladder organ cultures.  
CARCINOGENESIS, 8:401-404, 1987.
252. FURUKAWA, K., SHIMADA, T., ENGLAND, P., MOCHIZUKI, Y. AND WILLIAMS, G.M.  
Enrichment and characterization of clonogenic epithelial cells from adult rat liver and initiation of epithelial cell strains.  
IN VITRO: CELLULAR AND DEVELOPMENTAL BIOLOGY, 23:339-348, 1987.
253. STENBACK, F., MU, B. AND WILLIAMS, G.M.  
Retinyl acetate effects on the life span and the incidence of cryptogenic neoplasms in C3H mice.  
NUTRITION AND CANCER, 10:119-128, 1987.
254. SOHN, O.S., FIALA, E.S., PUZ, C., HAMILTON, S.R. AND WILLIAMS, G.M.  
Enhancement of rat liver microsomal metabolism of azoxymethane to methylazoxymethanol by chronic ethanol administration: similarity to the microsomal metabolism of N-nitrosodimethylamine.  
CANCER RESEARCH, 47:3123-3129, 1987.
255. WILLIAMS, G.M., MARUYAMA, H. AND TANAKA, T.  
Lack of rapid initiating, promoting or sequential syncarcinogenic effects of di(2-ethylhexyl)phthalate in rat liver carcinogenesis.  
CARCINOGENESIS, 8:875-880, 1987.

000156

256. WANG, C.X. AND WILLIAMS, G.M.  
Comparison of stomach cancer induced in rats by N-methyl-  
N'-nitro-N-nitrosoguanidine or N-propyl-N'-nitro-N-nitrosoguanidine.  
CANCER LETTERS, 34:173-185, 1987.
257. MCQUEEN, C.A. AND WILLIAMS, G.M.  
The hepatocyte primary culture/DNA repair test using hepatocytes from several  
species.  
CELL BIOLOGY AND TOXICOLOGY, 3:209-218, 1987.
258. MCQUEEN, C.A. AND WILLIAMS, G.M.  
Effects of quinolone antibiotics in tests for genotoxicity.  
AMERICAN JOURNAL OF MEDICINE, 82:94-96, 1987.
259. TANAKA, T., MORI, H. AND WILLIAMS, G.M.  
Enhancement of dimethylnitrosamine-initiated hepatocarcinogenesis in hamsters by  
subsequent administration of carbon tetrachloride but not phenobarbital or  
p,p'-dichlorodiphenyltrichloroethane.  
CARCINOGENESIS, 8:1171-1178, 1987.
260. REISS, B., WEISS, C.J., TANAKA, T., REDDY, B. AND WILLIAMS, G.M.  
Effects of bile acids on carcinogen-exposed rat colon in organ culture and as  
subsequent long-term transplants.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 78:107-113, 1987.
261. MCQUEEN, C.A. AND WILLIAMS, G.M.  
Toxicology studies in cultured hepatocytes from various species.  
In: THE ISOLATED HEPATOCYTE: USE IN TOXICOLOGY AND XENOBIOTIC  
BIOTRANSFORMATIONS, Eds. E.J. Rauckman and G.M. Padilla, Academic Press, New  
York, pp. 51-67, 1987.
262. WILLIAMS, G.M.  
DNA reactive and epigenetic carcinogens.  
In: MECHANISMS OF ENVIRONMENTAL CARCINOGENESIS, VOL. 1: ROLE OF GENETIC  
AND EPIGENETIC CHANGES, Ed. J.C. Barrett, CRC Press, Inc., Boca Raton, FL, pp.  
113-127, 1987.
263. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Testing procedures to define carcinogens as human cancer risks.  
In: HUMAN RISK ASSESSMENT: THE ROLE OF ANIMAL SELECTION AND EXTRAPOLATION,  
Ed. M. V. Roloff, Taylor and Francis, New York,  
pp. 163-186, 1987.

000157

264. BUTTERWORTH, B.E., ASHBY, J., BERMUDEZ, E., CASCIANO, D., MIRSALIS, J., PROBST, G. AND WILLIAMS, G.  
A protocol and guide for the in vitro rat hepatocyte DNA repair assay.  
MUTATION RESEARCH, 189:113-121, 1987.
265. BUTTERWORTH, B.E., ASHBY, J., BERMUDEZ, E. CASCIANO, D., MIRSALIS, J., PROBST, G. AND WILLIAMS, G.  
A protocol and guide for the in vivo rat hepatocyte DNA repair assay.  
MUTATION RESEARCH, 189:123-133, 1987.
266. WILLIAMS, G.M.  
Definition of a human cancer hazard.  
In: NONGENOTOXIC MECHANISMS IN CARCINOGENESIS. BANBURY REPORT 25, Cold Spring Harbor Laboratory, New York, pp. 367-380, 1987.
267. WILLIAMS, G.M.  
The significance of preneoplastic liver lesions in experimental animals.  
In: ADVANCES IN VETERINARY SCIENCE AND COMPARATIVE MEDICINE, VOL. 31, Academic Press, New York, pp. 21-44, 1987.
268. LOVELETTE, C., BARNES, W.S., WEISBURGER, J.H. AND WILLIAMS, G.M.  
Improved synthesis of the food 2-amino-3,7,8-trimethyl-3H- imidazo[4,5-f]quinoxaline and activity in a mammalian DNA repair system.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, 35:912-915, 1987.
269. WEISBURGER, J.H., WILLIAMS, G.M. AND HORN, C.L.  
Effective tests for ensuring drug safety with emphasis on detection of carcinogens.  
In: PREDICTIVE VALUE OF CARCINOGENICITY TESTING IN DRUG EVALUATION, Nordic Council on Medicines, Uppsala, Sweden, pp. 11-73, 1987.
270. STENBACK, F., WEISBURGER, J.H. AND WILLIAMS, G.M.  
Hydroxylamine effects on cryptogenic neoplasm development in C3H mice.  
CANCER LETTERS, 38:73-85, 1987.
271. ABBONDANDOLO, A., AVERBECK, D., BARRETT, J.C., BROWN, A.L., EVANS, H.J., GARNER, R.C., HEMMINKI, K., ISHIDATE, JR., M., KINSELLA, A.R., KUROKI, T., LAMBERT, B., LEONARD, A., LOHMAN, P.H.M., OBE, G., RAMEL, C., ROSENKRANZ, H.S., SANNER, T., SORSA, M., VENITT, S., WATERS, M.D., WILLIAMS, G.M., ZEIGER, E. AND ZETTERBERG, G.  
IARC MONOGRAPHS ON THE EVALUATION OF CARCINOGENIC RISKS TO HUMANS. GENETIC AND RELATED EFFECTS: AN UPDATING OF SELECTED IARC MONOGRAPHS FROM VOL.1 TO 42. SUPPLEMENT 6, International Agency for Research on Cancer, Lyon, France, 729 p. 1987.

272. AXELSON, P., BANNASCH, P., BERTAZZI, P.A., BLAIR, A., BROWN, A.L., BYKOREZ, A.I., CHERNOZEMSKY, I.N., DELLA PORTA, G., EVANS, H.J., GRIESEMER, R.A., HARRINGTON, J.M., HEMMINKI, K., HERNBERG, S., HOOPER, K., ITO, N., KAUFMAN, D.G., KROES, R., MACK, T.M., MCCONNELL, E.E., MILLER, A.B., PIKE, M.C., PINTER, A., THOMAS, D.B., WEINSTEIN, I.B. AND WILLIAMS, G.M.  
IARC MONOGRAPHS ON THE EVALUATION OF CARCINOGENIC RISKS TO HUMANS.  
OVERALL EVALUATIONS OF CARCINOGENICITY: AN UPDATING OF IARC  
MONOGRAPHS VOLUMES 1 to 42. Supplement 7, International Agency for  
Research on Cancer, Lyon, 441 p, 1987.
273. TONG, C.C. AND WILLIAMS, G.M.  
The effect of tumor promoters on cell-to-cell communication in liver epithelial cell  
systems.  
In: BIOCHEMICAL MECHANISMS AND REGULATION OF INTERCELLULAR  
COMMUNICATION, Eds. H.A. Milman and E. Elmore, Princeton Scientific Publishing  
Company, Princeton, N.J., pp. 251-263, 1987.

## 1988

274. STENBACK, F., WEISBURGER, J.H. AND WILLIAMS, G.M.  
Effect of lifetime administration of dimethylaminoethanol on longevity, aging changes,  
and cryptogenic neoplasms C3H mice.  
MECHANISMS OF AGEING AND DEVELOPMENT, 42:129-138, 1988.
275. TANAKA, T., MORI, H. AND WILLIAMS, G.M.  
Atypical and neoplastic acinar cell lesions of the pancreas in an autopsy study of  
Japanese patients.  
CANCER, 61:2278-2285, 1988.
276. BUTLER, E.G., ENGLAND, P.J. AND WILLIAMS, G.M.  
Effect of peroxisome proliferating hypolipidemic agents on serum activity levels of  
arylesterase and cholinesterase in rats and mice.  
RESEARCH COMMUNICATIONS IN CHEMICAL PATHOLOGY AND PHARMACOLOGY,  
60:125-128, 1988.
277. YOSHIMI, N., SUGIE, S., IWATA, H., MORI, H. AND WILLIAMS, G.M.  
Species and sex differences in genotoxicity of heterocyclic amine pyrolysis and  
cooking products in the hepatocyte primary culture/DNA repair test using rat, mouse  
and hamster hepatocytes.  
ENVIRONMENTAL AND MOLECULAR MUTAGENESIS, 12:53-64, 1988.

278. TONG, C.C., MCQUEEN, C.A., VED BRAT, S. AND WILLIAMS, G.M.  
The lack of genotoxicity of sodium fluoride in a battery of cellular tests.  
CELL BIOLOGY AND TOXICOLOGY, 4:173-186, 1988.
279. MARUYAMA, H., TANAKA, T. AND WILLIAMS, G.M.  
Activity of the anorectic agent 1,3-bis[2-cyano-5-(trifluoromethyl)-phenyl] triazene in  
*in vitro* and *in vivo* liver promoting assays.  
CANCER LETTERS, 40:13-21, 1988.
280. MARUYAMA, H., TANAKA, T., GEBHARDT, R., BERGHEM, L. AND WILLIAMS, G.M.  
Decreased fibronectin in rat liver altered foci and adenomas induced by  
N-2-fluorenylacetamide.  
LABORATORY INVESTIGATION, 58:630-635, 1988.
281. BUTLER, E.G., TANAKA, T., ICHIDA, T., MARUYAMA, H., LEBER, A.P. AND WILLIAMS,  
G.M.  
Induction of hepatic peroxisome proliferation by lactofen a diphenyl ether herbicide.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 93:72-80, 1988.
282. MCQUEEN, C.A., MILLER, M.J., WAY, B.M. AND WILLIAMS, G.M.  
Extracellular metabolites of 2-aminofluorene in cultures of rapid and slow acetylator  
rabbit hepatocytes as a model for urinary and biliary metabolism.  
CHEMICO-BIOLOGICAL INTERACTIONS, 66:71-83, 1988.
283. BUTLER, E.G., ENGLAND, P.J. AND WILLIAMS, G.M.  
Genetic differences in enzymes associated with peroxisome proliferation and hydrogen  
peroxide metabolism in inbred mouse strains.  
CARCINOGENESIS, 9:1459-1463, 1988.
284. WILLIAMS, G.M.  
Paradigms in cancer research: concepts on effects of carcinogens.  
In: THEORIES OF CARCINOGENESIS, Ed. O.P. Iversen, Hemisphere Publishing Co.,  
Washington, DC, pp. 23-30, 1988.
285. ARMEL, P. AND WILLIAMS, G.M.  
The molecular nature of spontaneous and chemically-induced mutations in the  
hypoxanthine-guanine phosphoribosyl transferase gene in rat liver epithelial cells.  
MUTATION RESEARCH, 202:147-153, 1988.
286. MCQUEEN, C.A. WAY, B.M. AND WILLIAMS, G.M.  
Genotoxicity of carcinogens in human hepatocytes; application in hazard assessment.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 96:360-366, 1988.

000160

287. WILLIAMS, G.M.  
The application of genetic toxicology in defining a human chemical cancer hazard.  
COMMENTS IN TOXICOLOGY, 2:353-364, 1988.
288. MILMAN, H.A., STORY, D.L., RICCIO, E.S., SIVAK, A., TU, A.S. AND WILLIAMS G.M.,  
TONG, C. AND TYSON, C.A.  
Rat liver foci and *in vitro* assays to detect initiating and promoting effects of  
chlorinated ethanes and ethylenes.  
In: LIVING IN A CHEMICAL WORLD, Eds. C. Maltoni and I.J. Selikoff. ANNALS NEW  
YORK ACADEMY OF SCIENCES, 534:521-530, 1988.
289. WILLIAMS, G.M. AND WEISBURGER, J.H.  
Application of the cellular test battery in the decision point approach to carcinogen  
identification.  
MUTATION RESEARCH, 205: 79-90, 1988.
290. GEBHARDT, R. AND WILLIAMS, G.M.  
A new aspect of liver carcinogenesis: selective induction of glutamine-  
synthetase-positive liver carcinomas by carcinogens which affect hepatocytes  
expressing this phenotype.  
In: ADVANCES IN AMMONIA AND HEPATIC ENCEPHALOPATHY, Eds,  
P.B. Soeters, J.H.P. Wilson, A.J. Meijer and E. Holm, Elsevier Science Publ.,  
Amsterdam, pp. 581-586, 1988.
291. MCQUEEN, C.A. AND WILLIAMS, G.M.  
Conjugation of chemical carcinogens in cultured hepatocytes.  
In: CELLULAR AND MOLECULAR ASPECTS OF GLUCURONIDATION, Eds. G. Siest, J.  
Magdalou and B. Burchell, John Libbey Eurotext Ltd., London, Vol 173,  
pp. 121-127, 1988.
292. MARUYAMA, H. AND WILLIAMS, G.M.  
Hepatotoxicity of chronic high dose administration of acetaminophen to mice: a  
critical review and implications for hazard assessment.  
ARCHIVES OF TOXICOLOGY, 62:465-469, 1988.

## 1989

293. WILLIAMS, G.M.  
Methods for evaluating chemical genotoxicity.  
ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY, 29:189-211, 1989.

000161

294. WEISBURGER, J.H., HALEY, N.J. AND WILLIAMS, G.M.  
Environmental factors in chronic disease prevention and markers for laboratory use.  
In: BIOLOGIE PROSPECTIVE, Eds. M.M. Galteau, G. Siest J. Henny, John Libbey  
Eurotext, Montrouge, France, pp. 527-535, 1989.
295. MCQUEEN, C.A., ROSADO, R.R. AND WILLIAMS G.M.  
Effect of nalidixic acid on DNA repair in rat hepatocytes.  
CELL BIOLOGY AND TOXICOLOGY, 5:201-206, 1989.
296. WILLIAMS, G.M.  
Interactive carcinogenesis in the liver.  
In: LIVER CELL CARCINOMA. FALK SYMPOSIUM 51, Eds. P. Bannasch, D. Keppler, G.  
Weber, Kluwer Academic Publishers, Dordrecht and Boston  
pp. 197-216, 1989.
297. GEBHARDT, R., TANAKA, T. AND WILLIAMS, G.M.  
Glutamine synthetase heterogenous expression as a marker for the cellular lineage of  
preneoplastic and neoplastic liver populations.  
CARCINOGENESIS, 10:1917-1923, 1989.
298. WILLIAMS, G.M.  
Pathogenesis of neoplasia and influences of pesticides.  
In: CARCINOGENICITY AND PESTICIDES: PRINCIPLES, ISSUES, AND RELATIONSHIPS, Eds.  
N.N. Ragsdale and R.E. Menzer, ACS Symposium Series No. 414, American  
Chemical Society, Washington, D.C., pp. 33-42, 1989.
299. MORI, H., ICHIDA, T., TANAKA, T. AND WILLIAMS, G.M.  
Pathological features of preneoplastic and neoplastic liver lesions in rodents and  
humans.  
In: COMPARATIVE ULTRASTRUCTURAL PATHOLOGY OF SELECTED TUMORS IN MAN AND  
ANIMALS, Ed. H.M. Schuller, CRC Press, FL, pp. 61-96, 1989.
300. WILLIAMS, G.M., MORI, H. AND MCQUEEN, C.A.  
Structure-activity relationships in the rat hepatocyte DNA-repair test for 300  
chemicals.  
MUTATION RESEARCH, 221:263-286, 1989.
301. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Types and amounts of carcinogens as potential human cancer hazards.  
CELL BIOLOGY AND TOXICOLOGY, 5:377-391, 1989.

302. WILLIAMS, G.M.  
The significance of chemically-induced hepatocellular altered foci in rat liver and application to carcinogen detection.  
TOXICOLOGIC PATHOLOGY, 17:663-674, 1989.

1990

303. WILLIAMS, G.M.  
Epigenetic mechanisms of liver tumor promotion.  
In: MOUSE LIVER CARCINOGENESIS Eds. Stevenson, D.E., McClain, R.M., Popp, J.A. Slaga, T.J., Ward, J.M. and Pitot, H.C. Alan R. Liss, Inc. New York, pp. 31-145, 1990.
304. WEISBURGER, J.H., JONES, R.C., WANG, C.X., BACKLUND, J.Y.C., WILLIAMS, G.M., KINGSTON, D.G.I., VAN TASSELL, R.L., WILKINS, T.D., DE WIT, P.P., VAN DER STEEG, M. AND VANDER GEN A.  
Carcinogenicity tests of fecapentaene-12 in mice and rats.  
CANCER LETTERS, 49:89-98, 1990.
305. BLAIR, A., AXELSON, O., FRANKLIN, C., PAYNTER, O.E., PEARCE, N., STEVENSON, D., TROSKO, J.E., VAINIO, H., WILLIAMS, G.M., WOODS, J. AND ZAHM, S.H.  
Carcinogenic effects of pesticides.  
In: EVALUATION OF CANCER RISKS FROM PESTICIDES. ADVANCES IN MODERN ENVIRONMENTAL TOXICOLOGY, Eds. S.R. Baker and C.F. Wilkinson, Princeton Scientific Publishers, Princeton, N.J., pp. 201-260, 1990.
306. ALVI, N.K., FOILES, P.G. AND WILLIAMS, G.M.  
Inhibition of repair of O<sup>6</sup>-methyldeoxyguanosine and enhanced mutagenesis in rat liver epithelial cells.  
MUTATION RESEARCH, 230:219-226, 1990.
307. WILLIAMS, G.M.  
Complex mixtures and interactive carcinogenesis: *in vitro* studies.  
In: COMPLEX MIXTURES AND CANCER RISK, IARC SCIENTIFIC PUBLICATIONS No 104, Eds. H. Vainio, M. Sorsa and A.J. McMichael, International Agency for Research on Cancer, Lyon. pp. 107-112, 1990.
308. WILLIAMS, G.M.  
Screening procedures for evaluating the potential carcinogenicity of food packaging chemicals.  
REGULATORY TOXICOLOGY AND PHARMACOLOGY, 12:30-40, 1990.

000163

309. MARUYAMA, H., TANAKA, T. AND WILLIAMS, G.M.  
Effects of the peroxisome proliferator di(2-ethylhexyl)phthalate on biochemical properties in rat liver and on carcinogen-induced liver altered foci in comparison to the promoter phenobarbital.  
TOXICOLOGIC PATHOLOGY, 18:257-267, 1990.
310. MCQUEEN, C.A. AND WILLIAMS, G.M.  
Review of the genotoxicity and carcinogenicity of 4,4'-methylene-dianiline and 4,4'-methylene-bis-2-chloroaniline.  
MUTATION RESEARCH, 239:133-142, 1990.
311. WILLIAMS, G.M., MCQUEEN, C.A. AND C. TONG.  
Toxicity studies of butylated hydroxyanisole and butylated hydroxytoluene I. Genetic toxicology studies.  
FOOD AND CHEMICAL TOXICOLOGY, 28:793-798, 1990.
312. WILLIAMS, G.M., WANG, C.X. AND IATROPOULOS, M.J.  
Butylated hydroxyanisole and butylated hydroxytoluene II. Chronic feeding studies.  
FOOD AND CHEMICAL TOXICOLOGY, 28:799-806, 1990.
313. BUTLER, E.G, ICHIDA, T., MARUYAMA, H., SCHULTE-HERMANN, R. AND WILLIAMS, G.M.  
Toxicological studies on a benzofurane derivative. II Demonstration of peroxisome proliferation induced in rat liver.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 106:500-508, 1990.
314. CHERNOZEMSKY, I.N., FIORE-DONATI, L., FRIEDMAN, G. D., HOLMBERG, B., KINLEN, L.J., MARSELOS, M., MATTILA, M., OBE, G., OLSEN, J.H., POPOVA, N.V., SEILER, J.P., SHAPIRO, S., SIEBER, S.M., SORSA, M., STAHLMANN, R., STEWART, B., SULLIVAN, F.M., WEISSINGER, J., WILLIAMS, G. M. AND YOKORO, K., IARC WORKING GROUP.  
IARC MONOGRAPHS ON THE EVALUATION OF CARCINOGENIC RISKS TO HUMANS, VOL. 50 PHARMACEUTICAL DRUGS, International Agency for Research on Cancer, Lyon, France, 415 p, 1990.

## 1991

315. RICHIE, J.P. AND WILLIAMS, G.M.  
Aging and cancer.  
In: THE POTENTIAL FOR NUTRITIONAL MODULATION OF AGING PROCESSES, Eds. D.K.Ingram, G.T. Baker, N. W. Shock, Food & Nutrition Press, Inc. Trumbull, CT, p. 51-66. 1991

000164

316. WILLIAMS, G.M.  
Causes and prevention of cancer  
STATISTICAL BULLETIN, 72:6-10, 1991
317. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Critical effective methods to detect genotoxic carcinogens and neoplasm promoting agents.  
ENVIRONMENTAL HEALTH PERSPECTIVES, 90:121-126, 1991.
318. WILLIAMS, G.M. AND WEISBURGER, J.H.  
Chemical carcinogenesis  
In: CASARETT AND DOULL'S TOXICOLOGY THE BASIC SCIENCES OF POISONS 4th Ed., Eds. M.O. Amdur, J. Doull and C. D. Klaassen. Pergamon Press, New York, pp 127-200, 1991.
319. KAHN, S.M., JANG, W., CULBERTSON, T.A., WEINSTEIN, I.B., WILLIAMS, G. M., TOMITA, N. AND RONAI, Z.  
Rapid and sensitive nonradioactive detection of mutant K-ras genes via "enriched" PCR amplification.  
ONCOGENE. 6:1079-1083, 1991.
320. MESCHTER, C.L., MAZUE, G. AND WILLIAMS, G.M.  
An overview of the role of *in vivo* and *in vitro* testing in physiology and pharmacology.  
In: ANIMALS IN BIOMEDICAL RESEARCH, REPLACEMENT, REDUCTION AND REFINEMENT: PRESENT POSSIBILITIES AND FUTURE PROSPECTS.. Eds. C.F.M. Hendriksen and H.B.W.M. KoNter. Elsevier Publishers, Amsterdam, pp. 85-88, 1991.
321. HIROTA, N. AND WILLIAMS, G.M.  
Assessment of hepatocarcinogenesis by early indicators.  
In: HEPATOTOXICOLOGY, Eds. R.G. Meeks, S.D. Harrison, Jr. and R.J. Bull. CRC Press, Boca Raton, pp. 593-620, 1991.
322. TOKUMO, K., IATROPOULOS, M. J. AND WILLIAMS, G. M.  
Butylated hydroxytoluene lacks the activity of phenobarbital in enhancing diethylnitrosamine-induced mouse liver carcinogenesis.  
CANCER LETTERS, 59:193-199, 1991.

000165

323. WILLIAMS, G.M., TANAKA, T., MARUYAMA, H., MAEURA, Y., WEISBURGER, J. H. AND ZANG, E.  
Modulation by butylated hydroxytoluene of liver and bladder carcinogenesis induced by chronic low level exposure to 2-acetylaminofluorene.  
CANCER RESEARCH, 51:6224-6230, 1991.
324. MCQUEEN, C. A., WAY, B. M., QUEENER, S. M., SCHLUTER, G. AND WILLIAMS, G.M.  
Study of potential *in vitro* and *in vivo* genotoxicity in hepatocytes of quinolone antibiotics.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 111:255-262, 1991.
325. ASHBY, J., BANNASCH, P., BARRETT, J.C., BERAL, V., BOS., J.L., BRANDT-RAUF, P., BUTTERWORTH, B.E., BRIDGES, B.A., DAY, N., DYBING, GRIESEMER, R.A., HARRIS, C.C., HEMMINKI, K., HOEL, D.G., HUFF, J.E., KEY, T., KINLEN, L., KREWSKI, D., LAMBER, B., LUCIER, G.W., MAGEE, P.N., MCKNIGHT, B., MCMICHAEL, A.J., NESNOW, S., PETERA, F., PETO, J., PHILLIPS, D.H., RAMEL, C., REDDY, J.K., ROSENKRANZ, H.S., SHIRAI, T., SIEBER, S.M., SORSA, M., STEWART, B.W., SWENBERG, J.A., SWIERENGA, S., VINEIS, P., WAHRENDORF, J., WILLIAMS, G.M., ZARIDZE, D.G.  
MECHANISMS OF CARCINOGENESIS IN RISK IDENTIFICATION. A CONSENSUS REPORT OF A IARC MONOGRAPHS WORKING GROUP.  
International Agency for Research on Cancer, Lyon, 60 p, 1991.

## 1992

326. ALVI, N. K AND WILLIAMS, G. M.  
Restriction fragment pattern analysis of HGPRT mutations induced in rat-liver epithelial cells by alkylating and arylating agents.  
MUTATION RESEARCH, 265:283-295, 1992.
327. WHYSNER, J. AND WILLIAMS, G. M.  
International cancer risk assessment: The impact of biologic mechanisms  
REGULATORY TOXICOLOGY AND PHARMACOLOGY, 15:41-50, 1992.
328. BENNETT, A. M. AND WILLIAMS, G. M.  
Reduction of rat liver endoplasmic reticulum Ca<sup>2+</sup>-ATPase activity and mobilization of hepatic intracellular calcium by ciprofibrate, a peroxisome proliferator.  
BIOCHEMICAL PHARMACOLOGY, 43:595-605, 1992.

000166

329. WILLIAMS, G.M.  
Liver cell short-term tests for food-borne carcinogens.  
In: FOOD SAFETY ASSESSMENT. Eds. J. W. Finley, S. F. Robinson and D. J. Armstrong.  
AMERICAN CHEMICAL SOCIETY, WASHINGTON, ACS Symposium Series 484, pp 60-72,  
1992.
330. BUDROE, J.D., UMEMURA, T. ANGELOFF, K. AND WILLIAMS, G.M.  
Dose-response relationships of hepatic acyl CoA oxidase and catalase activity  
and liver mitogenesis induced by the peroxisome proliferator ciprofibrate in  
C57BL/6N and BALB/c mice.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 113:192-198, 1992.
331. BOSLAND, M.C., PRINSEN, M.K., RIVENSON, A., SILVERMAN, J., FIALA, E., WILLIAMS,  
G.M., KROES, R. AND WEISBURGER, J.  
Induction of proliferative lesions of ventral prostate, seminal vesicle, and  
other accessory sex glands in rats by N-methyl-N-nitrosourea: effect of  
castration, pre-treatment with cyproterone acetate and testosterone propionate,  
and rat strain.  
THE PROSTATE, 20:339-353, 1992.
332. UMEMURA, T., TOKUMO, K. AND WILLIAMS, G.M.  
Cell proliferation induced in kidney and liver of rats and mice by short-term exposure  
to the carcinogen p-dichlorobenzene.  
ARCHIVES OF TOXICOLOGY, 66:503-507, 1992.
333. WILLIAMS, G.M. AND BAKER, G.T.  
The potential relationships between aging and cancer.  
EXPERIMENTAL GERONTOLOGY, 27:469-476, 1992.
334. FACCINI, J.M., BULTER, W.R., FRIEDMANN, J-C., HESS, R., REZNIK, G.K., ITO, N.,  
HAYASHI, Y. AND WILLIAMS, G.M.  
IFSTP guidelines for the design and interpretation of the chronic rodent  
carcinogenicity bioassay.  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY 44:443-456.
335. WILLIAMS, G.M.  
DNA reactive and epigenetic carcinogens.  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, 44:457-464, 1992

000167

336. WILLIAMS, G.M., VERNA, L.K. AND WHYSNER, J.  
Mechanisms of chemical carcinogenesis: application to safety assessment of pesticides.  
In: BRIGHTON CROP PROTECTION CONFERENCE. PESTS AND DISEASES - 1992. Vol. 1  
Lavenham Press Ltd, Lavenham, UK, pp. 135-142, 1992.
337. LASKER, S.E., IATROPOULOS, M.J., HECHT, S.S., MISRA, B., AMIN, SHANTU, ZANG, E.  
AND WILLIAMS, G.M.  
N-ethyl-N-nitrosourea induced brain tumors in rats monitored by nuclear magnetic  
resonance imaging, plasma proton nuclear magnetic resonance spectroscopy and  
microscopy.  
CANCER LETTERS, 67:125-131, 1992

### 1993

338. WILLIAMS, G.M.  
Inhibition of chemical-induced experimental cancer by synthetic phenolic antioxidants.  
In: ANTIOXIDANTS: CHEMICAL, PHYSIOLOGICAL, NUTRITIONAL AND TOXICOLOGICAL  
ASPECTS. Ed. G.M. Williams; H. Sies, G.T. Baker III, J.W. Erdman, Jr., C.J. Henry,  
Princeton Scientific Press, Princeton, NJ, pp. 303-308, 1993.
339. WYNDER, E.L. AND WILLIAMS, G.M.  
Metabolic overload and carcinogenesis from the viewpoint of epidemiology.  
In: CHEMICAL CARCINOGENESIS: THE RELEVANCE OF MECHANISTIC UNDERSTANDING  
IN TOXICOLOGICAL EVALUATION. Ed. A. Somogyi, K.E. Appel, A. Katenkamp, MMV  
Medizin Verlag GmbH München, pp. 17-24, 1993.
340. WILLIAMS, G. M. AND BENNETT, A.M.  
Proliferating lines of rat liver epithelial cells.  
In: METHODS IN TOXICOLOGY, VOL. IN VITRO BIOLOGICAL SYSTEMS, Eds. C. Tyson  
and J. Frazier, Academic Press, San Diego, CA, pp. 311-316, 1993.
341. WILLIAMS, G.M., IATROPOULOS, M.J., DJORDJEVIC, M.V. AND KALTENBERG, O.P.  
The triphenylethylene drug tamoxifen is a strong liver carcinogen in the rat.  
CARCINOGENESIS, 14:315-317, 1993.

342. BENNETT, A.M., FLINT, O.P. AND WILLIAMS, G.M.  
Studies on the effects of peroxisome proliferators as novel  $\text{Ca}^{2+}$  mobilizing agents using indo-1-loaded hepatocytes.  
In: BIOTECHNOLOGY APPLICATIONS OF MICROINJECTION, MICROSCOPIC IMAGING AND FLUORESCENCE. Ed. P.H. Bach, C.H. Reynolds, J.M. Clark, P.L. Poole and J. Mottley. Plenum Press, New York, pp. 143-151, 1993.
343. WILLIAMS, G.M., IATROPOULOS, M., CHEUNG, R., RADI, L., WANG, C.X.  
Diethylstilbestrol liver carcinogenicity and modification of DNA in rats.  
CANCER LETTERS, 68:193-198, 1993.
344. BENNETT, A.M. AND WILLIAMS, G.M.  
Alteration of rat liver endoplasmic reticulum  $\text{Ca}^{2+}$ -ATPase thiol integrity by ciprofibrate, a peroxisome proliferator.  
BIOCHEMICAL PHARMACOLOGY, 45:2093-2098, 1993.
345. BUDROE, J.D. AND WILLIAMS, GARY M.  
Genotoxicity studies of peroxisome proliferators.  
In: PEROXISOME: BIOLOGY AND IMPORTANCE IN TOXICOLOGY AND MEDICINE. Eds. GG Gibson and B.G. Lake. Taylor and Francis, London, pp. 525-568, 1993.
346. WILLIAMS, G.M.  
Food: its role in the etiology of cancer.  
In: FOOD AND CANCER PREVENTION: CHEMICAL AND BIOLOGICAL ASPECTS Eds. K.W. Waldron, I.T. Johnsen and G.R. Genwick, The Royal Society of Chemistry, Cambridge, United Kingdom, pp. 3-11, 1993.
347. TOKUMO, K., UMEMURA, T., GEBHARDT, R., POIRIER, M. AND WILLIAMS, G.M.  
Inhibition by gonadectomy of effects of 2-acetylaminofluorene in male, but not in female rat liver.  
CARCINOGENESIS, 14:1747-1750, 1993.
348. HARD, G.C., IATROPOULOS, M.J., JORDAN, K., RADI, L., KALTENBERG, O.P., IMONDI, A.R., WILLIAMS, G.M.  
Major difference in the hepatocarcinogenicity and DNA adduct forming ability between toremifene and tamoxifen in female Crl:CD(BR) rats.  
CANCER RESEARCH, 53:4534-4541, 1993.
349. WILLIAMS, G.M.  
Cancer prevention: the potential and importance of mechanistic information.  
IN: NEW FRONTIERS IN CANCER CAUSATION. PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE ON THEORIES OF CARCINOGENESIS. Ed. O.H. Iversen. Taylor & Francis, Washington, DC, Oslo, Norway, pp. 389-397, 1993.

000169

350. UMEMURA, T., TOKUMO, K., GEBHARDT, R., POIRIER, M. AND WILLIAMS, G.M.  
Dose response effects of 2-acetylaminofluorene on DNA damage, cytotoxicity, cell proliferation and neoplastic conversion in rat liver.  
CANCER LETTERS, 73:1-10, 1993.
351. BUDUNOVA, I.V., WILLIAMS, G.M. AND SPRAY, D.C.  
Effect of tumor promoting stimuli on gap junction permeability and connexin 43 expression in the ARL 18 rat liver cell line.  
ARCHIVES OF TOXICOLOGY, 67:565-572, 1993.
352. WILLIAMS, G.M., GEBHARDT, R., SHIRMA, H. AND STENBÄCK, F.  
Non-linearity of neoplastic conversion induced in rat liver by low exposures to diethylnitrosamine.  
CARCINOGENESIS, 14:2149-2156, 1993.
353. WILLIAMS, C.L., BOLLELLA, M. AND WILLIAMS, G.M.  
Cancer prevention beginning in childhood.  
In: CANCER PREVENTION Eds. DeVita, V.T., Jr., Hollman, S. and Rosenberg, S.A., J.B. Lippincott Co., Philadelphia, PA, 1993, 1-13.
354. BENNETT, A.M. AND WILLIAMS, G.M.  
Calcium as a permissive factor but not an initiation factor in DNA synthesis induction in cultured rat hepatocytes by the peroxisome proliferator ciprofibrate.  
BIOCHEMICAL PHARMACOLOGY, 46:2219-2227, 1993.
355. MAZUE, G., NEWMAN, A.J., SCAMPINI, G., DELLA TORRE, P., HARD, G.C., IATROPOULOS, M.J., WILLIAMS, G.M., BAGNASCO, S.M.  
The histopathology of kidney changes in rats and monkeys following intravenous administration of massive doses of FCE 26184, human basic fibroblast growth factor.  
TOXICOLOGIC PATHOLOGY, 21:490-501, 1993.

## 1994

356. WEISBURGER, J.H., RIVENSON, A., REINHARDT, J., ALIAGA, C., BRALEY, J., DOLAN, L.M., WILLIAMS, G.M., KINGSTON, D.G.I., BASHIR M., SHU, Y-Z, WILKINS, T.D. AND VAN TASSELL, R.L.  
Genotoxicity and carcinogenicity in rats and mice of 2-amino-3,6-dihydro-3- methyl-7H-imidazo[4,5-f]quinolin-7-one: an intestinal bacterial metabolite of 2-amino-3-methyl-3H-imidazo[4,5-f]quinoline.  
JOURNAL OF THE NATIONAL CANCER INSTITUTE, 86:25-30, 1994.

357. WHYSNER, J., COVELLO, V.T., KUSCHNER, M., RIFKIND, A.B., ROZMANN, K.K., TRICHOPOULOS, D. AND WILLIAMS, G.M.  
Asbestos in the air of public buildings: A public health risk?  
PREVENTIVE MEDICINE, 23:119-125, 1994.
358. SUGIE, S., YOSHIMI, N., TANAKA, T., MORI, H., AND WILLIAMS, G.M.  
Alterations of nuclear pores in preneoplastic and neoplastic rat liver lesions induced by 2-acetylaminofluorene.  
CARCINOGENESIS, 15:95-98, 1994.
359. MONTANDON, F. AND WILLIAMS, G.M.  
Comparison of DNA reactivity of the polyphenylethylene hormonal agents diethylstilbestrol, tamoxifen and toremifene in rat and hamster liver.  
ARCHIVES OF TOXICOLOGY, 68:272-275, 1994.
360. WHYSNER, J., WANG, C., ZANG, E., IATROPOULOS, M.J. AND WILLIAMS, G.M.  
Dose response of promotion by butylated hydroxyanisole in chemically initiated tumours of the rat forestomach.  
FOOD AND CHEMICAL TOXICOLOGY, 32:215-222, 1994
361. WILLIAMS, G.M.  
Interventive prophylaxis of liver cancer.  
EUROPEAN JOURNAL FOR CANCER PREVENTION, 3:89-99, 1994.
362. VANCUTSEM, P.M., LAZARUS, P. AND WILLIAMS, G.M.  
Frequent and specific mutations of the rat p53 gene in hepatocarcinomas induced by tamoxifen.  
CANCER RESEARCH, 54:3864-3867, 1994.
363. BUDUNOVA, I.V. AND WILLIAMS, G.M.  
Cell culture assays for chemicals with tumor-promoting or tumor-inhibiting activity based on the modulation of intercellular communication.  
CELL BIOLOGY AND TOXICOLOGY, 10:71-116, 1994.
364. DELZELL, E., DOULL, J., GIESY, J., MACKAY, D., MUNRO, I. AND WILLIAMS, G.  
Interpretive review of the potential adverse effects of chlorinated organic chemicals on human health and the environment. Report of an Expert Panel.  
REGULATORY TOXICOLOGY AND PHARMACOLOGY 20:S1- S1056, 1994.

000171

365. BELITSKY, G.A., LYTCHEVA, T.A., KHITROVO, I.A., SAFAEV, R.D., ZHURKOV, V.S., VYSKUBENKO, I.F., SYTSHOVA, L.P., SALAMATOVA, O.G., FELDT, E.G., KHUDOLEY, V.V., MIZGIREV, I.V., KHOVANOVA, E.M., UGNIVENKO, E.G., TANIRBERGENOV, T.B., MALINOVSKAYA, K.I., REVAZOVA, Y.A., INGEL, F.I., BRATSLAVSKY, V.A., TERENTYEV, A.B., SHAPIRO, A.A. AND WILLIAMS, G.M.  
Genotoxicity of 1,2-dibromopropane and 1,1,3-tribromopropane in comparison to 1,2-dibromo-3-chloropropane.  
CELL BIOLOGY AND TOXICOLOGY, 10:265-279, 1994.
366. BUDROE, J.D AND WILLIAMS, G.M.  
Antioxidant enzyme activity modulation by peroxisome proliferators.  
In: PEROXISOME PROLIFERATION: UNIQUE INDUCERS OF DRUG-METABOLIZING ENZYMES. Ed. D.E. Moody. CRC Press, Boca Raton pp. 137-160, 1994.
367. LAZARUS, P., CALCAGNOTTO, A., WILLIAMS, G.M. AND ALVI, N.  
Sequence of the rat hypoxanthine guanine phosphoribosyl transferase (HPRT) transcriptional promoter region in wild-type and mutant rat liver epithelial cell lines.  
MUTATION RESEARCH, 325:117-123, 1994.
368. STENBÄCK, F., GEBHARDT, R., GARBAY J-M. AND WILLIAMS, G.M.  
Sequential functional and morphological alterations during hepatocarcinogenesis induced in rats by a low dose of 2-acetylaminofluorene.  
TOXICOLOGICAL PATHOLOGY, 22:620-632, 1994.

## 1995

369. WILLIAMS, G.M.  
Tamoxifen experimental carcinogenicity studies; implications for human effects.  
PROCEEDINGS OF THE SOCIETY FOR EXPERIMENTAL BIOLOGY AND MEDICINE, 208:141-143, 1995.
370. OLSEN, J.H., SCHULGEN, G., BOICE, J.D., JR., WHYSNER, J., TRAVIS, L.B., WILLIAMS, G.M., JOHNSON, F.B., O'D MCGEE, J.  
Antiepileptic treatment and risk for hepatobiliary cancer and malignant lymphoma.  
CANCER RESEARCH, 55:294-297, 1995.
371. KRAUS, A.L., MUNRO, I.C., ON, J.C., BINDER, R.L., LEBOEUF, R.A. AND WILLIAMS, G.M.  
Benzoyl peroxide: an integrated human safety assessment for carcinogenicity.  
REGULATORY TOXICOLOGY & PHARMACOLOGY, 21:87-107, 1995.

372. WHYSNER, J., VERNA, L., ENGLISH, J.C. AND WILLIAMS, G.M.  
Analysis of studies related to tumorigenicity induced by hydroquinone.  
REGULATORY TOXICOLOGY AND PHARMACOLOGY, 21:158-176, 1995.
373. HARD, G.C., IATROPOULOS, M.J., THAKE, D.C., WHEELER, D., TATEMATSU, M.,  
HAGIWARA, A., WILLIAMS, G.M. AND WILSON A.G.E.  
Identity and pathogenesis of stomach tumors in Sprague-Dawley rats associated with  
the dietary administration of butachlor.  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, 47:95-105, 1995.
374. THAKE, D.C., IATROPOULOS, M.J., HARD, G.C., HOTZ, K.J., WANG, C-X., WILLIAMS,  
G.M. AND WILSON, A.G.E.  
A study of the mechanism of butachlor-associated gastric neoplasms in Sprague-  
Dawley rats.  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, 47:107-116, 1995.
375. WEISBURGER, J.H. AND WILLIAMS, G.M.  
Causes of cancer.  
AMERICAN CANCER SOCIETY TEXTBOOK OF CLINICAL ONCOLOGY. Eds. G.P. Murphy,  
W. Lawrence, Jr. and R.E. Lenhard, Jr.. American Cancer Society, Inc., Atlanta, GA.  
pp.10-39, 1995.
376. WILLIAMS, G.M. AND WHYSNER, J.  
Mechanistic considerations in risk assessment for epigenetic tumor-promoting  
carcinogens.  
IN: GROWTH FACTORS AND TUMOR PROMOTION: IMPLICATIONS FOR RISK ASSESSMENT  
Eds. R.M. McClain, T.J. Slaga, R. LeBoeuf and H. Pitot. John Wiley and Sons Inc.,  
New York, New York. pp. 369-383, 1995.
377. GEBHARDT, R. AND WILLIAMS, G.M.  
Glutamine synthetase and hepatocarcinogenesis.  
CARCINOGENESIS, 16:1673-1681, 1995
378. SPILLER, M., MERKER, P.C., IATROPOULOS, M.J., CHILDRESS, S.M., WILLIAMS, G.M. AND  
KASOFF, S.S.  
Correlation of relaxometry and histopathology: the transplantable human glioblastoma  
SF295 grown in athymic nude mice.  
JOURNAL OF NEURO-ONCOLOGY, 25:113-126, 1995.

000173

1996

379. WILLIAMS, G.M. AND WYNDER, E.L.  
Diet and cancer: a synopsis of causes and prevention strategies.  
In: NUTRITION AND CANCER PREVENTION. Ed. R.R: Watson and S.I, Mufti, CRC  
Press, 1-12, 1996.
380. WILLIAMS, G.M., IATROPOULOS, M.J. AND WEISBURGER, J.H  
Chemical carcinogen mechanisms of action and implications for testing methodology.  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, 48:101-111, 1996.
381. WILLIAMS, G.M. AND WHYSNER, J.  
Epigenetic carcinogens: evaluation and risk assessment  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, 48:189-195, 1996.
382. WILLIAMS, G.M., KARBE, E., FENNER-CRISP, P., IATROPOULOS, M.J., WEISBURGER, J.H.  
Risk assessment of carcinogens in food with special consideration of non-genotoxic  
carcinogens: Scientific arguments for use of risk assessment and for changing the  
Delaney Clause specifically.  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, 48:119-125, 1996.
383. IATROPOULOS, M.J. AND WILLIAMS, G.M.  
Proliferation markers.  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, 48:175-181, 1996.
384. MAZUE, G. WILLIAMS, G.M., IATROPOULOS, M.J., NEWMAN, A.J., SAMMARTINI, U.,  
PULCI, R., CASTELLINO, S., SCAMPINI, G., BRUGHERA, M., IMONDI, A.R., PODEST, A.  
Anthracyclines: Review of genotoxicity and carcinogenicity studies.  
INTERNATIONAL JOURNAL OF ONCOLOGY, 8:525-525, 1996.
385. WILLIAMS, G.M., HECHT, S.S., WEISBURGER, J.H. AND WYNDER, E.L.  
Twenty-five years of the American Health Foundation  
PREVENTIVE MEDICINE, 25:2-3, 1996.
386. WILLIAMS, G.M.  
Risk assessment based upon mechanistic information: Application to pharmaceuticals.  
PREVENTIVE MEDICINE, 25:23, 1996.

000174

387. WILLIAMS, G.M. AND IATROPOULOS, M.J.  
Inhibition of the hepatocarcinogenicity of aflatoxin B<sub>1</sub> in rats by low levels of phenolic antioxidants butylated hydroxyanisole and butylated hydroxytoluene.  
CANCER LETTERS, 104:49-53, 1996.
388. ROSEN, J.E., PRAHALAD, A.K. AND WILLIAMS, G.M.  
8-Oxodeoxyguanosine formation in the DNA of cultured cells after exposure to H<sub>2</sub>O<sub>2</sub> alone or with UVB or UVA irradiation.  
PHOTOCHEMISTRY AND PHOTOBIOLOGY, 64:117-122, 1996.
389. ASHBY, J., CARLO, G., COHEN, S.M., EVANS, J.S., GRAHAM, J.D., HOLLAND, W., KOO, L.C., MATANOSKI, G.M., NORTH, W., PAUSTENBACH, D.J., PERSHAGEN, G., SCHLESSELMAN, J.J., STARR, T.B., SWENBERG, J.A., TETA, M.J., WICHMANN, E., WILLIAMS, G.M. AND WYNDER, E.L.  
Principles for evaluating epidemiologic data in regulatory risk Assessment, Federal Focus, Inc., Washington, DC, 1996.
390. WHYSNER, J., CONAWAY, C.C., VERNA, L.K. AND WILLIAMS, G.M.  
Vinyl chloride mechanistic data and risk assessment: DNA reactivity and cross-species quantitative risk extrapolation.  
PHARMACOLOGY & THERAPEUTICS, 71:7-28, 1996.
391. CONAWAY, C.C., WHYSNER, J. AND WILLIAMS, G.M.  
Formaldehyde mechanistic data and risk assessment: Endogenous protection from DNA adduct formation.  
PHARMACOLOGY & THERAPEUTICS, 71:29-56, 1996.
392. VERNA, L., WHYSNER, J. AND WILLIAMS, G.M.  
N-Nitrosodiethylamine mechanistic data and risk assessment: bioactivation, DNA-adduct formation, mutagenicity, and tumor initiation.  
PHARMACOLOGY & THERAPEUTICS, 71:57-82, 1996.
393. VERNA, L., WHYSNER, J. AND WILLIAMS, G.M.  
2-Acetylaminofluorene mechanistic data and risk assessment: DNA reactivity, enhanced cell proliferation and tumor initiation.  
PHARMACOLOGY & THERAPEUTICS, 71:83-106, 1996.
394. WHYSNER, J., VERNA, L. AND WILLIAMS, G.M.  
Benzidine mechanistic data and risk assessment: Species- and organ-specific metabolic activation.  
PHARMACOLOGY & THERAPEUTICS, 71:107-126, 1996.

000175

395. WHYSNER, J. AND WILLIAMS, G.M.  
*d*-Limonene mechanistic data and risk assessment: Absolute species-specific cytotoxicity, enhanced cell proliferation, and tumor promotion.  
PHARMACOLOGY & THERAPEUTICS, 71:127-136, 1996.
396. WHYSNER, J. AND WILLIAMS, G.M.  
Butylated hydroxyanisole mechanistic data and risk assessment: Conditional species-specific cytotoxicity, enhanced cell proliferation, and tumor promotion.  
PHARMACOLOGY & THERAPEUTICS, 71:137-152, 1996.
397. WHYSNER, J., ROSS, P.M. AND WILLIAMS, G.M.  
Phenobarbital mechanistic data and risk assessment: Enzyme induction, enhanced cell proliferation, and tumor promotion.  
PHARMACOLOGY & THERAPEUTICS, 71:153-192, 1996.
398. WHYSNER, J. AND WILLIAMS, G.M.  
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin mechanistic data and risk assessment: Gene regulation, cytotoxicity, enhanced cell proliferation, and tumor promotion.  
PHARMACOLOGY & THERAPEUTICS, 71:193-224, 1996.
399. WHYSNER, J. AND WILLIAMS, G.M.  
Saccharin mechanistic data and risk assessment: Urine composition, enhanced cell proliferation, and tumor promotion.  
PHARMACOLOGY & THERAPEUTICS, 71:225-251, 1996.
400. WILLIAMS, G.M., IATROPOULOS, M.J., WANG, C.X., ALI, N., RIVENSON, A., PETERSON, L.A., SCHULZ, C. AND GEBHARDT, R.  
Diethylnitrosamine exposure-responses for DNA damage, centrilobular, cytotoxicity, cell proliferation and carcinogenesis in rat liver exhibit some non-linearities.  
CARCINOGENESIS, 17:2253-2258, 1996.
401. BOORMAN, G.A., CATTLEY, R.C., CRAMER, D.W., CUZICK, J., CZEIZEL, A.E., HOOPER, W.D., KIRSCH-VOLDERS, M., VAN LEEUWEN, F.E., LITTLE, J., LUCIER, G.W., MILLER, A.B., OLIN, S., PHILLIPS, D.H., PINTER, A., PRITCHARD, K.I., VAMVAKAS, S., AND WILLIAMS, G.M.  
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Vol. 66 Some Pharmaceutical Drugs., International Agency for Research on Cancer, Lyon, France, 1996.
402. IATROPOULOS, M.J., WILLIAMS, G.M., WANG, C.X. AND KARLSSON, S.H.  
New histopathologic and histokinetic methods in preclinical safety studies.  
SCANDINAVIAN JOURNAL OF LABORATORY ANIMAL SCIENCE, 23:339-343, 1996.

000176

403. NESTMANN, E.R. BRYANT, D.W., CARR, C.J., Fennell T.T., Gallagher, J.E., Gorelick N.J., Swenberg, J.A. and Williams, G.M.  
Toxicological significance of DNA adducts. Report of an expert panel  
REGULATORY TOXICOLOGY AND PHARMACOLOGY, 24:9-18, 1996.
404. ROSEN, J.E., SCHLUTER, G. AND WILLIAMS, G.M.  
Lack of effects of ciprofloxacin and the topoisomerase II inhibitors, *m*-AMSA and nalidixic acid, on DNA repair in cultured rat liver cells.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 140:254-263, 1996.
405. SIRMA, H., WILLIAMS, G.M. AND GEBHARDT, R.  
Strain- and sex-specific variations in hepatic glutamine synthetase activity and distribution in rats and mice.  
LIVER, 16:166-173, 1996.
406. KARLSSON, S., HIRSIMÄKI, Y., MÄNTYLÄ, E., NIEMINEN, L., KANGAS, L., HIRSIMÄKI, P. PERRY C.J., MULHERN, M., MILLAR, P., HANDA, J., WILLIAMS, G.M.  
A two-year dietary carcinogenicity study of the antiestrogen toremifene in Sprague-Dawley rats.  
DRUG AND CHEMICAL TOXICOLOGY, 19:245-266, 1996.
407. WILLIAMS, G.M., AARDEMA, M.J., LONG, P.H., THOMPSON, E.D., ALLGOOD, G.S.  
Genotoxicity and subchronic toxicity studies with heated olestra.  
FOOD AND CHEMICAL TOXICOLOGY, 34:941-950, 1996.
408. WILLIAMS, G.M. AND PERRONE, C.  
Mechanism-based risk assessment of peroxisome proliferating rodent hepatocarcinogens.  
IN: PEROXISOMES: BIOLOGY AND ROLE IN TOXICOLOGY AND DISEASE VOL. 804. Eds. J.K. REDDY, T.SUGA, G.P. MANNAERTS, P.B. LAZAROW AND S. SUBRAMANI, THE NEW YORK ACADEMY OF SCIENCES, NEW YORK, NY, pp. 554-572, 1996.

## 1997

409. IATROPOULOS, M.J., WILLIAMS, G.M., ABDO, K.M., KARI, F.W. AND HART, R.W.  
Mechanistic studies on genotoxicity and carcinogenicity of salicylazosulfapyridine an anti-inflammatory medicine.  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, 49:15-28, 1997.

000177

410. WILLIAMS, G.M.  
Safety assessment of pharmaceuticals: Examples of inadequate assessments and a mechanistic approach to assuring adequate assessment.  
TOXICOLOGIC PATHOLOGY, 25:32-38, 1997.
411. WILLIAMS, G.M.  
Chemicals with carcinogenic activity in the rodent liver; mechanistic evaluation of human risk.  
CANCER LETTERS, 117:175-188, 1997.
412. HARD, G.C., WHYSNER, J., ENGLISH, J.C., ZANG, E. AND WILLIAMS, G.M.  
Relationship of hydroquinone-associated rat renal tumors with spontaneous chronic progressive nephropathy.  
TOXICOLOGIC PATHOLOGY, 25:132-143, 1997.
413. ROSEN, J.E., PRAHALD, A.K., SCHLUTER, G., CHEN, D., AND WILLIAMS, G.M.  
Quinolone antibiotic photodynamic production of 8-oxo-7,8-dihydro-2'-deoxyguanosine in cultured liver epithelial cells.  
PHOTOCHEMISTRY AND PHOTOBIOLOGY, 65: 990-996, 1997.
414. WILLIAMS, G.M.  
Carcinogenic responses to toxic liver injury in rodents.  
COMPREHENSIVE TOXICOLOGY, VOLUME. 9, HEPATIC AND GASTROINTESTINAL TOXICOLOGY. Ed. R. McCuskey and D.L. Earnst, Pergamon, Elsevier Science, New York, pp. 165-179, 1997.
415. ROSEN, J.E., CHEN, D., PRAHALAD, A.K., SPRATT, T.E., SCHLUTER, G. AND WILLIAMS, G.M.  
A fluoroquinolone antibiotic with a methoxy group at the 8 position yields reduced generation of 8-oxo-7,8-dihydro-2'-deoxyguanosine after ultraviolet-A irradiation.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 145:381-387, 1997.
416. IATROPOULOS, M.J., WILLIAMS, G.M., WANG, C.-X., BRUNNEMANN, K.D., LEBER, A.P.  
Assessment of chronic toxicity and carcinogenicity in rats of Wingstay<sup>®</sup> 100, a rubber antioxidant/antiozonat.  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, 49:153-165, 1997.

000178

417. LOEHR, R.C., ARCHIBALD, S.O., BRAUMAN, J.I., BREDEHOEFT, J.D., DASTON, G.P., DEMERJIAN, K.L., FEDOROFF, N.V., HARTUNG, R., HAYS, J.F., KOLB, C.E., MCDOWELL, J., MEYER, J.L., O'MELIA, C.R., WILEY, M.J., WILLIAMS, G.M., WOLFE, R.L., YOUNG, L., ZOSEL, T.W., GOPNIK, M., DAVID, S., POLICASNSKY, D., DAVIS, A.S., VANN, S., BRUBAKER, A., MCCASLAND-PEXTON, A.  
BUILDING A FOUNDATION FOR SOUND ENVIRONMENTAL DECISIONS. National Academy Press, Washington, D.C. 1997.
418. WILLIAMS, G.M. AND IATROPOULOS, M.J.  
Anticarcinogenic effects of synthetic phenolic antioxidants.  
IN: OXIDANTS, ANTIOXIDANTS & FREE RADICALS. Ed. Steven Baskin and Harry Salem, Taylor & Francis, Washington, DC, pp. 341-351, 1997.
419. WILLIAMS, G.M.  
Liver cell culture methods to measure DNA alterations produced by chemicals and radiation.  
CELL BIOLOGY AND TOXICOLOGY, 13:317-321; (399-403), 1997.
420. WILLIAMS, G.M. AND IATROPOULOS, M.J.  
Inhibition by acetaminophen of intestinal cancer in rats induced by an aromatic amine similar to food mutagens.  
EUROPEAN JOURNAL OF CANCER PREVENTION, 6:357-362, 1997.
421. WILLIAMS, G.M., IATROPOULOS, M.J. AND KARLSSON, S.  
Initiating activity of the anti-estrogen tamoxifen, but not toremifene in rat liver.  
CARCINOGENESIS, 18:2247-2253, 1997.
422. WILLIAMS, G.M. AND JEFFREY, A.M.  
Safety assessment of tamoxifen and toremifene.  
ONCOLOGY, 11 (SUPPL. 4): 41-47, 1997.

## 1998

423. WHYSNER, J., MONTANDON, F., McCLAIN, R.M., DOWNING, J., VERNA, L.K., STEWARD, 3RD, R.E. AND WILLIAMS, G.M.  
Absence of DNA adduct formation by phenobarbital, polychlorinated biphenyls, and chlordane in mouse liver using the <sup>32</sup>P-postlabeling assay.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 14:14-23-1998.

424. UMEMURA, T., TAKADA, K., SCHULZ, C., GEBHARDT, R., KUROKAWA, Y., AND WILLIAMS, G.M.  
Cell proliferation in the livers of male mice and rats exposed to the carcinogen p-dichlorobenzene: evidence for thresholds.  
DRUG AND CHEMICAL TOXICOLOGY, 21:57-66, 1998.
425. PERRONE, C.E. AND WILLIAMS, G.M.  
Rodent hepatocarcinogenic peroxisome proliferators induce proliferation of rat hepatocytes in primary mixed cultures with rat liver epithelial cells.  
CANCER LETTERS, 123:27-33, 1998.
426. VERNA, L.K., WILLIAMS, G.M., CHEN, D., AND SCHLUTER, G.  
Inhibition by singlet oxygen quenchers of oxidative damage to DNA produced in cultured cells by exposure to a quinolone antibiotic and ultraviolet A irradiation.  
CELL BIOLOGY AND TOXICOLOGY, 14:237-242, 1998.
427. PERRONE, C.E., SHAO, L. AND WILLIAMS, G.M.  
Effect of rodent hepatocarcinogenic peroxisome proliferators on fatty Acyl-CoA oxidase, DNA synthesis and apoptosis in cultured human and rat hepatocytes.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, 150: 277-286, 1998.
428. WHYSNER, J., ROSS, P.M., CONAWAY, C.C., VERNA, L.K., WILLIAMS, G.M.  
Evaluation of possible genotoxic mechanisms for acrylonitrile tumorigenicity.  
REGULATORY TOXICOLOGY AND PHARMACOLOGY, 27:217-239, 1998.
429. WHYSNER, J., STEWARD, R.E., 3<sup>RD</sup>, CHEN, D., CONAWAY, C.C., VERNA, L.K., RICHIE, J.P., JR., ALI, N. AND WILLIAMS, G.M.  
Formation of 8-oxodeoxyguanosine in brain DNA of rats exposed to acrylonitrile.  
ARCHIVES OF TOXICOLOGY, 72:429-438, 1998.
430. BRUSICK, D., ALBETINI, R., MCREE, D., PETERSON, D., WILLIAMS, G., HANAWALT P., AND PRESTON, J.  
Gentoxicity of radiofrequency radiation.  
ENVIRONMENTAL AND MOLECULAR MUTAGENESIS, 32:1-16, 1998.
431. ENZMANN, H., BOMHARD, E., IATROPOULOS, M.J., AHR, H.J., SCHLUETER, G. AND WILLIAMS, G.M.  
Short- and intermediate-term carcinogenicity testing - A review: Part 1 - The prototypes mouse skin tumour assay and rat liver focus.  
FOOD AND CHEMICAL TOXICOLOGY, 36:979-995, 1998.

432. ENZMANN, H, IATROPOULOS, M.J., BRUNNEMANN, K.D., BOMHARD, E., AHR, H.J., SCHLÜTER, G. AND WILLIAMS, G.M.  
Short-and intermediate-term carcinogenicity testing - A review: Part 2 - Available experimental models.  
FOOD AND CHEMICAL TOXICOLOGY, 36:997-1013, 1998.
433. WILLIAMS, G.M., IATROPOULOS, M.J., WANG, C.X., JEFFREY, A.M. THOMPSON, S., PITTMAN, B., PALASCH, M. AND GEBHARDT, R.  
Non-linearities in 2-acetylaminofluorene exposure-responses for genotoxic and epigenetic effects leading to initiation of carcinogenesis in rat liver.  
TOXICOLOGICAL SCIENCES, 45:152-161, 1998.
434. WILLIAMS, G.M., ROSS, P.M., JEFFREY, A.M. AND KARLSSON, S.  
Genotoxicity studies with the antiestrogen toremifene.  
DRUG AND CHEMICAL TOXICOLOGY, 21: 449-476, 1998.
435. KARLSSON, S., IATROPOULOS, M.J., WILLIAMS, G.M., KANGAS, L. AND NIEMINEN, L.  
The proliferation in uterine compartments of intact rats of two different strains exposed to high doses of tamoxifen or toremifene.  
TOXICOLOGIC PATHOLOGY, 26:759-768, 1998.

### 1999

436. WILLIAMS, G.M. AND ENZMANN, H.  
The rat liver hepatocellular-altered, focus limited bioassay for chemicals with carcinogenic activity.  
IN: CARCINOGENICITY: TESTING, PREDICTING AND INTERPRETING CHEMICAL EFFECTS.  
Ed. Kirk T. Kitchin, Marcel Dekker, Inc., New York, Chapter 13, pp 361-394, 1999.
437. WILLIAMS, G.M.  
Chemically induced rodent preneoplastic lesions as indicators of carcinogenic activity.  
IN: THE USE OF SHORT-AND MEDIUM-TERM TESTS FOR CARCINOGENS AND DATA ON GENETIC EFFECTS IN CARCINOGENIC HAZARD EVALUATION. D.B. McGregor, J.M. Rice, and S. Venitt, (Ed.), IARC Scientific Publications No. 146. Lyon, France, Pages 185-202, 1999.

438. WILLIAMS, G.M.  
Safety assessment of the antiestrogen agents for the treatment of breast cancer.  
PRIMARY CARE AND CANCER, 19 (Suppl. 2) 29-32, 1999.
439. ROSS, P.M., WHYSNER, J., COVELLO, V.T., KUSCHNER, M., RIFKIND, A.B., SEDLER, M.J.,  
TRICHOPOULOS, D., AND WILLIAMS, G.M.  
Olfaction and symptoms in the multiple chemical sensitivities syndrome.  
PREVENTIVE MEDICINE, 28:467-480, 1999.
440. WILLIAMS, G.M.  
Mechanistic considerations in cancer risk assessment.  
INHALATION TOXICOLOGY, 11:549-554, 1999.
441. AITIO, A., AXELSON, O., BLAIR, A., BOND, J.A., BUCHER, J.R., CALDWELL, J., COGGON,  
D., DEMERS, P.A., DRAGANI, T.A., ELCOMBE, C.R., FILSER, J.G., KAUPPINEN, T.,  
KIRSCH-VOLDER, M., KROMHOUT, H., KYRTOPOULOS, S.A., MULDER, G.J., NAGANO, K.,  
OLIN, S., PELKONEN, O., ROSNER, E., SCHRENK, D., SHUKER, D., SIEMIATYCKI, J.,  
SIMONATO, L., STEWART, P., TERRACCINI, B., TURUSOV, VS., VENITT, S., WATERS, M.D.,  
WILLIAMS, G.M., WOUTERSEN, R.A.  
Re-evaluation of some organic chemicals, hydrazine and hydrogen peroxide  
(IARC working group on the evaluation of carcinogenic risks to humans.)  
IARC MONOGRAPHS ON THE EVALUATION OF CARCINOGENIC RISKS TO HUMANS. VOL  
71, International Agency for Research on Cancer, Lyon, France, 1999.
442. DOULL, J., CATTLEY, R., ELCOMBE, C., LAKE, B.G., SWENBERG, J., WILKINSON, C.,  
WILLIAMS, G., AND VAN GEMERT, M.  
A cancer risk assessment of di(2-ethylhexyl)phthalate: Application of the new US EPA  
Risk Assessment Guidelines.  
REGULATORY PHARMACOLOGY AND TOXICOLOGY, 29:327-357, 1999.
443. UMEMURA, T., KAI, S., HASEGAWA, R., SAI, K., KUROKAWA, Y., WILLIAMS, G.M.  
Pentachlorophenol (PCP) produces liver oxidative stress and promotes but does not  
initiate hepatocarcinogenesis in B6C3F<sub>1</sub> mice.  
CARCINOGENESIS, 20:1115-1120, 1999.
444. SPRATT, T.E., SCHULTZ, S.S., LEVY, D.E., CHEN, D., SCHLÜTER, G., AND WILLIAMS,  
G.M.  
Different mechanisms for the photo-induced production of oxidative DNA damage  
by fluoroquinolones differing in photostability.  
CHEMICAL RESEARCH IN TOXICOLOGY, 12:809-815, 1999.

445. WILLIAMS, G.M., IATROPOULOS, M.J. AND WHYSNER, J.  
Safety assessment of butylated hydroxyanisole and butylated hydroxytoluene as antioxidant food additives.  
FOOD AND CHEMICAL TOXICOLOGY, 37:1027-1038, 1999.
446. WILLIAMS, G.M., WILLIAMS, C.L. AND WEISBURGER, J.H.  
Diet and Cancer Prevention - The Fiber First Diet.  
TOXICOLOGICAL SCIENCES, 52 (Supplement): 72-86, 1999.
447. WILLIAMS, G.M., IATROPOULOS, M.J., JEFFREY, A.M., LUO, F-Q., WANG, C-X., AND PITTMAN, B.  
Diethylnitrosamine exposure-responses for DNA ethylation, hepatocellular proliferation and initiation, of carcinogenesis in rat liver display non-linearities and thresholds.  
ARCHIVES OF TOXICOLOGY, 73:394-402,1999.

## 2000

448. JEFFREY, A.M. AND WILLIAMS, G.M.  
Lack of DNA-damaging activity of five non-nutritive sweeteners in the rat hepatocyte/DNA repair assay.  
FOOD AND CHEMICAL TOXICOLOGY, 38:335-338, 2000.
449. WILLIAMS, G.M., IATROPOULOS, M.J. AND JEFFREY, A.M.  
Mechanistic basis for nonlinearities and thresholds in rat liver carcinogenesis by the DNA-reactive carcinogens 2-acetylaminofluorene and diethylnitrosamine.  
TOXICOLOGIC PATHOLOGY, 28:388-395, 2000.
450. WILLIAMS, G.M., KROES, R. AND MUNRO I.C.,  
Safety evaluation and risk assessment of the herbicide Roundup and its active ingredient, glyphosate, for humans.  
REGULATORY PHARMACOLOGY AND TOXICOLOGY, 31:117-165, 2000.
451. UMEMURA, T., KODAMA, Y., KUROKAWA, Y. AND WILLIAMS, G.M.  
Lack of oxidative DNA damage or initiation of carcinogenesis in the kidneys of male F344 rats given subchronic exposure to p-dichlorobenzene (pDCB) at a carcinogenic dose.  
ARCHIVES OF TOXICOLOGY, 73:54-59, 2000.
452. KRINSKY, N.I., BEECHER, G.R., BURK, R.F., CHAN, A.C., ERDMAN, J.W. JR., JACOB, R.A., JIALAL, I., KOLONEL, L.N., MARSHALL, J.R., MAYNE, S.T., PRENTICE, R.L., SCHWARZ, K.B., STEINBERG, D., TRABER, M.G., MUNRO, I.C., BECKING, G.C., KIMBROUGH, R.D., MESSING, R.B., MILLER, S.A., MURPHY, S.P., PASTIDES, H., RODRICKS, J.V., ROSENBERG, I.H., TAYLOR, S.T., THOMAS, J.A., WILLIAMS, G.M.  
DIETARY REFERENCE INTAKES FOR VITAMIN C, VITAMIN E, SELENIUM AND CAROTEN- OIDS. Institute of Medicine, National Academy Press, Washington, DC, 2000.

453. JEFFREY, A.M., SHAO, L., BRENDLER-SCHWAAB, S., SCHLÜTER, G. & WILLIAMS, G.M.  
Photochemical mutagenicity of phototoxic and photochemically carcinogenic  
fluoroquinolones in comparison to the photostable moxifloxacin.  
ARCHIVES OF TOXICOLOGY, 74:555-559, 2000.
454. WILLIAMS, G.M. AND JEFFREY, A.M.  
Molecular structure of the selective estrogen receptor modulators tamoxifen and  
toremifene: Influence on biotransformation and DNA reactivity.  
MOLECULAR DRUG METABOLISM AND TOXICOLOGY; Williams, G.M. and Aruoma,  
O.I., ED., OICA International Limited, London, pp. 33-40, 2000.
455. WILLIAMS, G.M. AND JEFFREY, A.M.  
Oxidative DNA damage: endogenous and chemically induced.  
REGULATORY PHARMACOLOGY & TOXICOLOGY, 32:283-292, 2000.
456. HURT, R.D., CROGAN, G.A., WALTER, T.D., CROGAN, I.T., OFFORD, K.P., WILLIAMS,  
G.M. DJORDJEVIC, M.V., RITCHIE, J.P. AND JEFFREY, A.M.  
Does smoking reduction result in reduction of biomarkers associated with harm?  
A pilot study using a nicotine inhaler.  
NICOTINE & TOBACCO RESEARCH, 2:327-336, 2000.

## 2001

457. IATROPOULOS, M.J., JEFFREY, A.M., SCHLUTER, G., ENZMANN, H.G. AND  
WILLIAMS, G.M.  
Bioassay of mannitol and caprolactam and assessment of response to diethyl-  
nitrosamine in heterozygous p53-deficient (+/-) and wild type (++) mice.  
ARCHIVES OF TOXICOLOGY, 75:52-58, 2001.
458. WILLIAMS, G.M. AND IATROPOULOS, M.J.  
Principles of testing for carcinogenic activity.  
PRINCIPLES & METHODS OF TOXICOLOGY 4<sup>TH</sup> EDITION, W. Hayes, ED.  
Taylor & Francis, pp. 959-1000, 2001.
459. WILLIAMS, G.M.  
Mechanisms of chemical carcinogenesis and application to human cancer risk  
assessment.  
TOXICOLOGY, 166:3-10, 2001.
460. IATROPOULOS, M.J., JEFFREY, A.M., ENZMANN, H.G., VON KEUTZ, E., SCHLUTER, G.  
AND WILLIAMS, G.M.  
Assessment of chronic toxicity and carcinogenicity in an accelerated cancer bioassay  
in rats of moxifloxacin, a quinolone antibiotic.  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, 53:345-347, 2001.
461. ROBERTS, R.A., CRUMP, K.S., LUTZ, W.K., WIEGAND, H-J., WILLIAMS, G.M.,

000184

HARRISON P.T.C. AND PURCHASE I.F.H.

Scientific analysis of the proposed uses of the T25 dose descriptor in chemical carcinogen regulation.

ARCHIVES OF TOXICOLOGY, 75:507-512, 2001.

462. KARBE, E., WILLIAMS, G.M., LEWIS, R.W., KIMBER, I. AND FOSTER, P. M.D.  
Distinguishing between adverse and non-adverse effects. Session Summary.  
JOURNAL OF TOXICOLOGIC PATHOLOGY, 14:321-325, 2001.

## 2002

463. JEFFREY, A.M., LUO, F-Q, AMIN, S., KRZEMINSKI, J., ZECH, K. & WILLIAMS, G.M.  
Lack of DNA binding in the rat nasal mucosa and other tissues of the nasal toxicants roflumilast, a phosphodiesterase 4 inhibitor, and a metabolite, 4-amino-3,5-dichloropyridine, in contrast to the nasal carcinogen 2,6-dimethylaniline.  
DRUG & CHEMICAL TOXICOLOGY, 25:93-107, 2002.
464. WILLIAMS, G.M. AND IATROPOULOS, M.J.  
Alteration of liver cell function and proliferation: differentiation between adaptation and toxicity.  
TOXICOLOGIC PATHOLOGY, 30:41-53, 2002.
465. WILLIAMS, G.M., IATROPOULOS, M.J., JEFFREY, A.M. AND SHIRAI, T.  
Protective effect of acetaminophen against colon cancer initiation effects of 3,2'-dimethyl-4-aminobiphenyl in rats.  
EUROPEAN JOURNAL OF CANCER PREVENTION, 11:39-48, 2002.
466. MUNRO, I.C., BECKING, G.C., KIMBROUGH, R.D., MESSING, R.B., MILLER, S.A., PASTIDES, H., RODRICKS, J.V., ROSENBERG, I.H., TAYLOR, S.L., THOMAS, J.A. AND WILLIAMS, G.M.  
DIETARY REFERENCE INTAKES FOR VITAMIN A, VITAMIN K, ARSENIC, BORON, CHROMIUM, COPPER, IODINE, IRON, MANGANESE, MOLYBDENUM, NICKEL, SILICON, VANADIUM AND ZINC.  
Institute of Medicine, National Academy Press, Washington, D.C., Pages 1-773, 2002.
467. WILLIAMS, G.M., PERRONE, C.E., AND TAKAHASI, K.C.  
Inhibition of human topoisomerase II $\alpha$  by photoactivated fluoroquinolones.  
TOXICOLOGICAL SCIENCES, 69:16-22, 2002.
468. WILLIAMS, G.M., IATROPOULOS, M.J., AND JEFFREY, A.M.  
Anticarcinogenicity of monocyclic phenolic compounds.  
EUROPEAN JOURNAL OF CANCER PREVENTION, 11(Supplement 2) S101-S107, 2002.

469. BRUNNEMANN, K.D., ENZMANN, H.G., PERRONE, C.E., IATROPOULOS, M.J. AND WILLIAMS, G.M.  
In ovo carcinogenicity assay (IOCA): evaluation of mannitol, caprolactam and nitrosoproline.  
ARCHIVES OF TOXICOLOGY, 76:606-612, 2002.

## 2003

470. UMEMURA, T., KODAMA, Y., KANKI, K., IATROPOULOS, M.J., NISHIKAWA, A., HIROSE, M. AND WILLIAMS, G.M.  
Pentachlorophenol (but not phenobarbital) promotes intrahepatic biliary cysts induced by diethylnitrosamine to cholangio cystic neoplasms in B6C3F1 mice possibly due to oxidative stress.  
TOXICOLOGIC PATHOLOGY, 31:10-13, 2003.
471. WILLIAMS, G.M. AND IATROPOULOS, M.J.  
Benzofuran pp 27-30; Butylated Hydroxyanisole pp 31-40; Dichlorvos pp 49-56.  
In: PREDICTIVE VALUE OF RODENT FORESTOMACH AND GASTRIC NEUROENDOCRINE TUMOURS IN EVALUATING CARCINOGENIC RISKS TO HUMANS. IARC Technical Publication No. 39, International Agency for Research on Cancer, Lyon, France, 2003.
472. KROES, R., SCHAEFER, E.J., SQUIRE, R.A. AND WILLIAMS, G.M.  
A Review of the Safety of DHA45-oil.  
FOOD AND CHEMICAL TOXICOLOGY, 41, 1433-1446, 2003.

## 2004

473. WILLIAMS, G.M., IATROPOULOS, M.J., AND JEFFREY, A.M.  
Thresholds for the effects of 2-acetylaminofluorene in rat liver.  
TOXICOLOGIC PATHOLOGY, 32 (Supplement 2), 85-91.
474. IATROPOULOS, M.J. AND WILLIAMS, G.M.  
The function and pathology of brown adipose tissue in animals and humans.  
JOURNAL OF TOXICOLOGIC PATHOLOGY, 17:147-153.
475. PERRONE, C., AHR, H.-J., DUAN, J.D., JEFFREY, A., SCHMIDT, U., WILLIAMS, G.M. AND ENZMANN, H.  
Embryonic turkey liver: activities of biotransformation enzymes and activation of DNA-reactive carcinogens.  
ARCHIVES OF TOXICOLOGY, in press, 2004.

000186

- +476. WILLIAMS, G.M, JEFFREY, A.M. AND IATROPOULOS, M.J.  
Thresholds for DNA-reactive (genotoxic) organic carcinogens.  
JOURNAL OF TOXICOLOGIC PATHOLOGY, in press.
477. MUNRO, I.C., RODRICKS, J.V., ANDERSON, G.H., BECKING, G.C., FAUSTMAN, E.,  
HENDRICH, S., MILLER, S.A., PASTIDES, H., THOMAS, J.A. AND WILLIAMS, G.M.  
DIETARY REFERENCE INTAKES ENERGY, CARBOHYDRATE, FIBER, FAT, FATTY ACIDS,  
CHOLESTEROL, PROTEIN AND AMINO ACIDS.  
Institute of Medicine, National Academy Press, Washington, D.C., in press.
478. JEFFREY, A.M. AND WILLIAMS, G.M.  
Assessment of genotoxic carcinogens in food. Proceedings 10<sup>th</sup> International  
Congress of Toxicology.  
Toxicology and Applied Pharmacology, in press.
479. JEFFREY, A.M., IATROPOULOS, M.J. AND WILLIAMS, G.M.  
Rodent nasal toxicity and carcinogenic activity of systemically distributed organic  
chemicals.  
Drug and Chemical Toxicology, submitted.
480. WILLIAMS, G.M. AND JEFFREY, A.M.  
Chemical causes of cancer.  
METHODS FOR CANCER RISK ASSESSMENT, SHIELDS, P.G., MARCEL  
DEKKER, INC., in press.

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biblio-gmw  
GMW:kt

000187

Submission End

000188