

## Resume

T. Colin Campbell

Revised 7/03

### Family:

Wife (Karen), Children (Nelson, LeAnne, Keith, Danny, Thomas)

### Education:

1956	Penn State University	B.S.	Pre-veterinary
1957	Cornell University	M.S.	Nutrition, Biochemistry
1962	Cornell University	Ph.D.	Nutrition, Biochemistry Bacteriology

### Societies and Honors (past and/or present):

American Society for Nutritional Sciences (FASEB)  
International Nutrition Society  
American Society of Pharmacology and Experimental Therapeutics (FASEB)  
Society of Toxicology  
Sigma Xi  
NIH Research Career Development Award (1974-1976)  
American Society for Clinical Nutrition Visiting Professorship to the University of Maryland  
Medical School at Baltimore (1980)  
National Cancer Institute Exchange Scholar to the Peoples Republic of China (1981)  
Sam E. and Mary F. Roberts Foundation Awardee (1988)  
Distinguished Lecturer, Taiwan Nutrition Society (1991)  
Research featured on cover of Journal of National Cancer Institute (1985) and Cancer Research  
(1991)  
Exemplary Commitment of Excellence, Western-Ellington Alumni Association (1992)  
"Hero" of Food & Nutrition, Eating Well Magazine (1994)  
Recipient, First Prize for Most Outstanding Publication in Preventive Medicine in China for 20  
Years, 1976-1996  
Listed as one of Top 25 Food Influentials, Self, 1998  
JADE Chopsticks Award for Outstanding Chinese Nutrition Research, 1997  
Giraffe Commendation (for "outrageous actions for the common good"), 1998  
Green College Scholar, University of Oxford, UK  
1998 American Institute for Cancer Research Award "in recognition of a lifetime of significant  
accomplishments in scientific research and his efforts in furthering scientific knowledge and  
understanding in diet, nutrition and cancer"  
AAUP Heikkila Memorial Lecture, New Jersey Medical School and Robert Wood Johnson Medical  
School Lectures, 2003  
2004 Burton-Kallman Scientific Achievement Award, National Nutritional Foods Association

### Professional positions:

1985-present	Jacob Gould Schurman Professor of Nutritional Biochemistry, Cornell University, Ithaca, New York (Emeritus since April 1, 2000)
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1991-present	Honorary Professor, Chinese Academy of Preventive Medicine
1983-present	U.S. Director, Nutrition and Cancer Program Project (Collaborative Project with Chinese Academy of Preventative Medicine, Chinese Academy of Medical Sciences/China Cancer Institute, and University of Oxford)
1992-1997	Senior Science Advisor, World Cancer Research Fund and American Institute for Cancer Research
1994-1997	Organizer and Co-Chair, Expert Panel, Dietary Prevention of Cancer Worldwide
1985-1986	Visiting Scholar, Green College, University of Oxford, Oxford, England
1975-1985	Professor of Nutritional Biochemistry, Cornell University, Ithaca, New York
1983-1987	Senior Science Advisor, American Institute for Cancer Research, Falls Church, Virginia
1978-1979	Senior Scientific Consultant, Life Sciences Research Office, FASEB, Bethesda, Maryland (Sabbatical leave)
1974-1975	Professor of Biochemistry and Nutrition, VPI&SU, Blacksburg, Virginia
1968-1974	University Coordinator of Philippine Programs, VPI&SU, Blacksburg, Virginia
1969-1974	Associate Professor of Biochemistry and Nutrition, VPI&SU Blacksburg, Virginia
1965-1969	Assistant Professor of Biochemistry and Nutrition, VPI&SU Blacksburg, Virginia
1963-1965	Research Associate, Massachusetts Institute of Technology Cambridge, Massachusetts
1961-1963	Senior Chemist, Woodard Research Corporation Herndon, Virginia
1957-1958	Scientist, Hazelton Laboratories, Inc.

#### Research Interests:

Relationship of diet, nutrition and chronic degenerative disease etiology; nutritional effects on carcinogen and foreign compound metabolism; aflatoxin/liver cancer relationships; risk assessment and chemical toxicity; nutrition and policy development.

#### **Books, Commentaries, and Reviews**

Publications (Peer-reviewed manuscripts; abstracts, proceedings, lectureships, and other reports not listed- approximately 325 total):

1. Campbell TC. Mycotoxins in the food chain. *Va. Sci.* 18:67-74, 1967.
2. Campbell TC Gurtoo HL Portman RS Mgbodile MUK. Influence of environmental factors on mycotoxin toxicity as evidenced by studies on aflatoxin. *Clin. Toxicol.* 5:517-528, 1972.
3. Campbell TC Stoloff L. Implications of mycotoxins for human health. *J. Agric. Food Chem.* 22:1006-1015, 1974.
4. Campbell TC Hayes JR. Role of nutrition in the drug metabolizing enzyme system. *Pharmacol. Revs.* 26:171-197, 1974.
5. Campbell TC. Effect of dietary protein on drug metabolism. *Metab. Therap.*, 4(4):Winter, 1975.
6. Campbell TC Hayes JR. The liver microsomal system and mycotoxin metabolism. *Microbiology*, 1975, pp. 372-380. 1975.
7. Campbell TC. Aflatoxin metabolism. In: In Vitro Metabolic Activation in Mutagenesis Testing, de Serres FJ Fouts JR Bend JR Philpot RM. (eds.). New York: North-Holland Publishing Company, pp. 243-255. 1976.
8. Campbell TC Hayes JR. The effect of quantity and quality in dietary protein on drug metabolism. *Fed. Proc.* 35:2470-2474, 1976.
9. Campbell TC Hayes JR. The role of aflatoxin metabolism in its toxic lesion. *Toxicol. Appl. Pharm.* 35:199-222, 1976.
10. Campbell TC. Modern concepts in nutritional status and foreign compound toxicity. In: Advances in Modern Toxicology - Newer Concepts in Safety Evaluation, Mehlman MA Blumenthal H Shapiro R. (eds.). New York: Academic Press, pp. 11-31. 1976.
11. Campbell TC. Nutrition and drug metabolizing enzymes. *Clin. Pharmacol. Ther.* 22(5 Pt 2):699-706, 1977.
12. Campbell TC. The Influence of Dietary Factors on Drug Metabolism in Animals. *Drug Metab. Rev.* 9:173-184, 1979.
13. Campbell TC. Effects of dietary protein on drug metabolism. In: Nutr. Fedn. Monograph, Hathcock JN Coon JM. (eds.). New York: Academic Press, pp. 409-422. 1978.
14. Campbell TC. Role of metabolic studies in evaluation of mycotoxin health risks. In: Mycotoxins in Human and Animal Health, Rodricks JV Hesseltine CW Mehlman MA. (eds.). Park Forest South, Ill.: Pathotox Publishers, Inc., pp. 687-698. 1978.
15. Rosenblith WA Grobstein C Abelson RP Campbell TC Harris JL LaDu BN, Jr. Miller RW Nelson HE Price DK Rosen S Shapo MS Williamson OE Winikoff B. Food Safety Regulations and Societal Impact, Report of a Study on Food Safety Policy, Scientific and Societal Considerations. U.S. National Academy of Sciences, National Research Council March 1978.
16. Campbell TC. Influence of Nutrition on Metabolism of Carcinogens. In: Adv. Nutr. Res., II. Draper HH. (ed.) New York: Plenum Press, pp. 29-55. 1979.
17. Campbell TC Hayes JR Merrill AH Maso M Goetchius M. The influence of dietary factors on drug metabolism in animals. *Drug Metabolism Reviews* 9:173-184, 1979.

18. Allison RG Carr CJ Campbell TC. Guidelines for Safety Evaluation of Nutrients. Prepared for Food and Drug Administration, Washington, D.C., under Contract No. FDA 223-75-2090 by the Life Sciences Research Office, FASEB, Bethesda, MD. 1980.
19. Campbell TC. Chemical Carcinogens and Human Risk Assessment. *Fed. Proc.* 39:2467-2484, 1980.
20. Hayes JR Campbell TC. Nutrition as a modifier of chemical carcinogenesis. *Carcinog. Compr. Surv.* 5:207-241. 1980.
21. Campbell TC. A decision tree approach to the regulation of food chemicals associated with irreversible toxicities. *Regulatory Tox. Pharm.* 1:193-201, 1981.
22. Campbell TC Allison RG Fisher KD. Nutrient Toxicity. *Nutr. Rev.* 39:249-256, 1981.
23. Campbell TC. More is not necessarily better. *Natural History*, 90:12-16, 1981.
24. Campbell TC. Nutritional modulation of carcinogenesis. In: Molecular Interrelations of Nutrition and Cancer, Arnott, M.S. and Van Eys, J. (eds.). Raven Press: New York, pp. 359-367, 1982.
25. Boyd JN Campbell TC. Impact of nutrition on detoxication. In: Biological Basis of Detoxication, Caldwell J Jakoby WB. (eds.). New York: Academic Press. pp. 287-306, 1983.
26. Campbell TC. Mycotoxins. In: Environmental Aspects of Cancer: The Role of Macro and Micro Components of Foods, Wynder EL Leveille GA Weisburger JH Livingston GE. Food & Nutrition Press, Inc. Westport, CN. pp. 187-197, 1983.
27. Grobstein C Cairns J Broitman S Campbell TC Gussow J Kolonel LN Kritchevsky D Mertz W Miller AB Prival MJ Slaga T Wattenberg L. Diet, Nutrition and Cancer: Directions for Research: (Palmer, S., Project Director). National Academy Press, Washington, D.C. 1983.
28. Campbell TC. Diet as a cause of cancer: An update. *Int. Medicine Specialist* 6:109-114, 1985.
29. Misslbeck NG Campbell TC. The role of ethanol in the etiology of primary liver cancer. *Adv. Nutr. Res.* (Ed., Draper, H.) 7:129-153, 1985.
30. Campbell TC. A status report on diet, nutrition and cancer. *ASDC J. Dent. Child.* 52: 65-67, 1985.
31. Hayes JR Campbell TC. Food Additives and Contaminants. In: Casarett and Doull's Toxicology, Klaassen CD Amdur MD Doull J. (eds.). MacMillan Pub. Co., N.Y., 1986.
32. O'Conner TP Campbell TC. Potential responses to and impacts of epidemiological and experimental data on dietary fat and cancer. *Dietary guidelines. Prog. Clin. Biol. Res.* 222:731-771, 1986.
33. O'Connor TP Campbell TC. Dietary Guidelines In: Dietary Fat and Cancer. Ip C Bart D Mettlin C Rogers A. (eds.). Alan R. Liss, Inc., pp. 731-771, 1986.
34. O'Connor TP Campbell TC. The influence of nutrition on carcinogenesis. *Nutrition.* 3:155-162, 1987.

35. Campbell TC O'Connor TP. Scientific evidence and explicit health claims in food advertisements. *J. Nutr. Ed.* 20:87-92, 1988.
36. Campbell TC. Background paper for testimony on the role of dietary factors in the induction of chronic disease processes. Hearings before the Committee on Governmental Affairs, United States Senate on Role of Nutrition in Health and Disease, March 1, 1988. U.S. Government Printing Office, pp. 26-30, 37-41.
37. Chen J Campbell TC Li J Peto R. Diet, lifestyle and mortality in China. A study of characteristics of 65 Chinese counties. Joint publication of: Oxford University Press, Cornell University Press and The People's Medical Publishing House, 1990, 896 pp.
38. Chen J Campbell TC Parpia B Qu Y Brun T Chen C. The change of disease patterns and control strategies (in Chinese). *Chinese J. Prev. Med.* 4:291-293, 1990.
39. Campbell TC Chen J Brun T Parpia B Qu Y Chen C Geissler C. Can developing nations avoid the diseases of affluence? The case of China. In: *World Food Issues, Vol. 2*, (T. Brun & M. Latham eds.), pp. 56-63, Center for the Analysis of World Food Issues, Program in International Agriculture, Cornell University, Ithaca, NY. 1990.
40. Campbell TC Chen J. Diet and chronic and degenerative diseases: a summary of results from an ecologic study in rural China. In: *Western Diseases. Their dietary prevention and reversibility* (Temple, NJ and Burkitt, DP). Humana Press, Totawa, NJ, 1994, pp 67-118.
41. Campbell TC. The dietary causes of degenerative diseases: nutrients vs foods. In: *Western Diseases. Their dietary prevention and reversibility* (Temple, NJ and Burkitt, DP). Humana Press, Totawa, NJ, 1994, pp 119-152.
42. Campbell TC Chen J. Diet and chronic degenerative diseases: perspectives from China. *Am. J. Clin. Nutr.* 59(suppl):1153S-1161S.
43. Campbell TC. Methods and criteria for nutritional epidemiology--in need of repair--Guest Editorial. *Nutrition* 12: 560-561, 1996.
44. Campbell TC Chen JC. Diet and Health Characteristics in Rural China: Lessons Learned and Unlearned. *Nutr. Today* 34:116-123, 1999.
45. Campbell TC. Critique of report on "Food, Nutrition and prevention of cancer, a global perspective". *Nutr. Today*, 36:80-87, 2001.

#### **Selected Peer-Reviewed Papers**

1. Campbell TC Loosli JK Warner RG Tasaki I. Utilization of biuret by ruminants. *J. An. Sci.* 22:139, 1963.
2. Campbell TC Friedman L. Chemical assay and isolation of chick edema factor in biological materials. *J. Assoc. Off. Agri.Chem.*: 49:824, 1966.
1. Campbell TC Friedman L. Chick edema factor: some tissue distribution data and toxicologic effects in the rat and chick. *Proc. Soc. Exp. Med.* 121: 1283-1287, 1966.
2. Campbell TC. Present day knowledge on aflatoxin. *Phil. J. Nutr.* 20: 193-201, 1967.

3. Campbell TC Snider J. Non-interference of seed coat constituents of cottonseeds using the Pons and Goldblatt aflatoxin procedure. *J. Am. Oil Chem. Soc.* 46:31-33, 1968.
4. Gurtoo HL Campbell TC Webb RE Plowman KM. Effect of aflatoxin and benzpyrene pretreatment upon the kinetics of benzpyrene hydroxylase. *Biochem. Biophys. Res. Comm.* 31:588-595, 1968.
5. Hanna KL Campbell TC. A rapid thin layer chromatographic method for the preparation of aflatoxin B<sub>1</sub>. *J. Assoc. Off. Agric. Chem.* 51:1197-1199, 1968.
6. Portman R Plowman KM Campbell TC. Aflatoxin metabolism by liver microsomal preparations of two different species. *Biochem. Biophys. Res. Comm.* 33:711-715, 1968.
7. Baugher WL Campbell TC. Gossypol detoxification by fungi. *Science* 164:1526-1527, 1969.
8. Marsh PB Simpson ME Ferretti RJ Campbell TC Donoso J. Relations of aflatoxins in cottonseeds at harvest to fluorescence in the fiber. *J. Ag. Food Chem.* 17:462-467, 1969.
9. Weatherholtz WM Campbell TC Webb RE. Effect of dietary protein levels on the toxicity and metabolism of heptachlor. *J. Nutr.* 98:90-94, 1969.
10. Wilson BJ Campbell TC Hayes AW Hanlin RT. Investigation of reported aflatoxin production by fungi outside the *Aspergillus flavus* group. *Appl. Microbiol.* 16:819-821, 1968.
11. Campbell TC Caedo JP, Jr. Bulatao-Jayme J Salamat L Engel RW. Aflatoxin M<sub>1</sub> in human urine. *Nature* 227:403-404, 1970.
12. Gurtoo HL Campbell TC. A kinetic approach to a study of the induction of rat liver microsomal hydroxylase after pretreatment with 3,4-benzpyrene and aflatoxin B<sub>1</sub>. *Biochem. Pharmacol.* 19:1729-1735, 1970.
13. Portman RS Campbell TC. *In vitro* inhibition of *E. coli* RNA polymerase transcription of rat liver chromatin by aflatoxin B<sub>1</sub>. *Biochem. Biophys. Res. Comm.* 41:774-780, 1970.
14. Portman RS Plowman KM Campbell TC. On mechanisms affecting species susceptibility to aflatoxin. *Biochim. Biophys. Acta* 208:487-495, 1970.
15. Doherty WP Campbell TC. Inhibition of rat liver mitochondrial electron transport flow by aflatoxin B<sub>1</sub>. *Res. Comm. Chem. Pathol. Pharmacol.* 3:601-612, 1972.
16. Kornegay ET Kelly RF Campbell TC Libke KG Sandrock FW Blair JE. Fungal treated cottonseed meal for swine. *J. Nutr.* 102:1471-1476, 1972.
17. Mgbodile MUK Campbell TC. Effect of protein deprivation of male weanling rats on the kinetics of hepatic microsomal enzyme activity. *J. Nutr.* 102:53-60, 1972.
18. Doherty WP Campbell TC. Aflatoxin inhibition of rat liver mitochondria. *Chem.-Biol. Int.* 7:63-77, 1973.
19. Hayes JR Mgbodile MUK Campbell TC. Dependence of K<sub>m</sub> and V<sub>max</sub> on substrate concentration for rat liver hepatic microsomal ethylmorphine N-demethylase. *Biochem. Pharmacol.* 22:1517-1520, 1973.

20. Hayes JR Mgbodile MUK Campbell TC. Effect of protein deficiency on the inducibility of the hepatic microsomal drug-metabolizing enzyme system. I. Effect on substrate interaction with cytochrome P-450. *Biochem. Pharmacol.* 22:1005-1014, 1973.
21. Merrill AH, Jr. Campbell TC. Preliminary study of in vitro aflatoxin B<sub>1</sub> metabolism by human liver. *J. Toxicol. Appl. Pharmacol.* 27:210-213, 1974.
22. Mgbodile MUK Hayes JR Campbell TC. Effect of protein deficiency on the inducibility of the hepatic microsomal drug-metabolizing enzyme system. II. Effect on enzyme kinetics and electron transport system. *Biochem. Pharmacol.* 22:1125-1132, 1973.
23. Campbell TC Sinnhuber RO Lee DJ Wales JH Salamat, L. Hepatocarcinogenic material in urine specimens from humans consuming aflatoxin. *J. Natl. Cancer Inst.* 52:1647-1649, 1974.
24. Gurtoo HL Campbell TC. Metabolism of aflatoxin B<sub>1</sub> and metabolism-dependent and independent binding to rat hepatic microsomes. *Mol. Pharmacol.* 10:776-789, 1974.
25. Hayes JR Campbell TC. Effect of protein deficiency on the inducibility of the hepatic microsomal drug-metabolizing enzyme system. III. Effect of 3-methylcholanthrene induction on activity and binding kinetics. *Biochem. Pharmacol.* 23:1721-1732, 1974.
26. Polan CE Hayes JR Campbell TC. Consumption and fate of aflatoxin B<sub>1</sub> in lactating cows. *J. Agr. Food Chem.* 22:635-638, 1974.
27. Hayes JR Hartgrove RW Hundley SG Campbell TC Webb R.E. Interaction of endrin and dieldrin with hepatic microsomal cytochrome P-450 from the rat, mouse, and endrin susceptible and resistant pine voles. *Toxicol. Appl. Pharmacol.* 32:559-565, 1975.
28. Stoloff L Trucksess M Hardin N Francis OJ Hayes JR Polan CE Campbell TC. Stability of aflatoxin M in milk. *J. Dairy Sci.* 58:1789-1793, 1975.
29. Campbell TC. Aflatoxin metabolism. In: In Vitro Metabolic Activation in Mutagenesis Testing, de Serres FJ Fouts JR Bend JR Philpot RM (eds.). New York: North-Holland Publishing Company, pp. 243-xxxx. 1976.
30. Preston RS Hayes JR Campbell TC. The effect of protein deficiency on the in vivo binding of aflatoxin B<sub>1</sub> to rat liver macromolecules. *Life Sci.* 19:1191-1198, 1976.
31. Campbell TC. Nutrition and Drug-Metabolizing Enzymes. *Clin. Pharm. Therap.* 22:699-706, 1977.
32. Campbell TC. The Influence of Dietary Factors on Drug Metabolism in Animals. *Drug Metab. Rev.* 9:173-184, 1979.
33. Hayes JR Polan CE Campbell TC. Bovine liver metabolism and tissue distribution of aflatoxin B<sub>1</sub>. *J. Agr. Food Chem.* 25:1189-1193, 1977.
34. Adekunle AA Hayes JR Campbell TC. Interrelationships of dietary protein level, aflatoxin B<sub>1</sub> metabolism, and hepatic microsomal epoxide hydrase activity. *Life Sci.* 21:1785-1792, 1977.

35. Adekunle AA Campbell TC Campbell SC. Effect of vitamin deficiency on rat hepatic and colon epoxide hydrase. *Experientia* 35: 241-242, 1979.
36. Adekunle AA Campbell TC Campbell SC. Aflatoxin metabolism and absence of cytochrome P-450 in rat colon tissue during vitamin A malnutrition. *Experientia* 34: 230-232, 1978.
37. Adekunle AA Campbell SW Campbell TC. Effect of vitamin A deficiency on hepatic microsomal and colon mucosal mixed function oxidase. IV. Influence on aflatoxin B1 metabolism, ethylmorphine and epoxide hydrase activity. *Biochem. Exp. Biol.* 14: 55-64, 1978.
38. Adekunle AA Hayes JR Campbell TC. Effect of protein deficiency on the hepatic microsomal mixed function oxidase. III. Influence on aflatoxin B1 metabolism and epoxide hydrase activity. *Biochem. Exp. Biol.* 14: 45-53, 1978.
39. Campbell TC Hayes JR Newberne PM. Dietary lipotropes, hepatic microsomal mixed-function oxidase activities, and *in vivo* covalent binding of aflatoxin B1 in rats. *Cancer Res.* 38:4569-4573, 1978.
40. Campbell TC. Saccharin, Cancer, and calories (letter to editor). *Science* 202:260-261, 1978.
41. Hayes JR Mgbodile MUK Merrill AH, Jr. Nerurkar LS Campbell TC. The effect of dietary protein depletion and repletion on rat hepatic mixed function oxidase activities. *J. Nutr.* 108:1788-1797, 1978.
42. Nerurkar LS Hayes JR Campbell TC. The reconstitution of hepatic microsomal mixed function oxidase activity with fractions derived from weanling rats fed different levels of protein. *J. Nutr.* 108:678-686, 1978.
43. Mainigi KD Campbell TC. Subcellular distribution and covalent binding of aflatoxins as function of dietary manipulation. *J. toxicol. Environ. Health* 6:659-671, 1980.
44. Campbell TC LSRO reports as models. *Fed. Proc.* 39: 121-122, 1980.
45. Boyd JN Misslbeck N Babish JG Campbell TC Stoewsand GS. Plasma alpha-fetoprotein elevation and mutagenicity of urine as early predictors of carcinogenicity in benzo(a)pyrene fed rats. *Drug Chem. Tox.* 4:197-205, 1981.
46. Boyd JN Stoewsand GS Misslbeck N Campbell TC Mason R Lepp A Odstschel G. Enhancement of plasma alpha-fetoprotein, as measured by sandwich-type radioimmunoassay, and induction of gamma-glutamyl transpeptidase-positive hepatic cell foci in rats fed benzo(a)pyrene. *J. Tox. Environ. Health* 7:1025-1035, 1981.
47. Faris RA Campbell TC. Exposure of newborn rats to pharmaceutically active compounds may permanently alter carcinogen metabolism. *Science* 211:719-721, 1981.
48. Mainigi KD Campbell TC. Effects of low dietary protein and dietary aflatoxin on hepatic glutathione levels in F-344 rats. *J. Toxicol. Appl. Pharmacol.* 59:196-203, 1981.
49. Mainigi, KD Campbell TC. Effect of sex differences on subcellular distribution of aflatoxin in F-344 rats treated with various risk-modifying factors. *Toxicol. Appl. Pharmacol.* 58:236-243, 1981.



50. Appleton BS Campbell TC. Inhibition of aflatoxin-initiated preneoplastic liver lesions by low dietary protein. *Nutr. Cancer* 3:200-206, 1982.
51. Appleton BS Goetchius MP Campbell TC Linear dose-response curve for the hepatic macromolecular binding of aflatoxin B<sub>1</sub> in rats at very low exposures. *Cancer Res.* 42:3659-3662, 1982.
52. Chen J Goetchius MP Campbell TC Combs GF, Jr. Effects of dietary selenium and vitamin E on hepatic mixed-function oxidase activities and in vivo covalent binding of aflatoxin B<sub>1</sub> in rats. *J. Nutr.* 112:324-331, 1982.
53. Chen J Goetchius MP Combs GF, Jr. Campbell TC. Effects of dietary selenium and vitamin E on covalent binding of aflatoxin to chick liver cell macromolecules. *J. Nutr.* 112:350-355, 1982.
54. Prince LO Campbell TC. Effects of sex difference and dietary protein level on the binding of aflatoxin B<sub>1</sub> to rat liver chromatin proteins in vivo. *Cancer Res.* 42:5053-5059, 1982.
55. Appleton BS Campbell TC. Dietary protein intervention during the postdosing phase of aflatoxin B<sub>1</sub>-induced hepatic preneoplastic lesion development. *J. Nat. Cancer Inst.* 70:547-549, 1983.
56. Appleton BS Campbell TC. Effect of high and low dietary protein on the dosing and postdosing periods of aflatoxin B<sub>1</sub>-induced hepatic preneoplastic lesion development in the rat. *Cancer Res.* 43:2150-2154, 1983.
57. Faris RA Campbell TC. Long-term effects of neonatal phenobarbital exposure on aflatoxin B<sub>1</sub> disposition in adult rats. *Cancer Res.* 43:2576-2583, 1983.
58. Misslbeck NG Campbell TC Roe DA. Effect of ethanol consumed in combination with high and low fat diets on the post-initiation phase of hepatocarcinogenesis in the rat. *J. Nutr.* 114:2311-2323, 1984.
59. Campbell TC. Response (concerning AICR), letter submitted to Editor) *J. Chron. Dis.* 38:456, 1985.
60. O'Connor TP Roebuck BD Campbell TC. Dietary intervention during the postdosing phase of L-azaserine induced preneoplastic lesions. *J. Natl. Cancer Inst.* 75:955-957, 1985.
61. O'Connor TP Roebuck BD Peterson F Campbell TC. Effect of dietary intake of fish oil and fish protein on the development of L-azaserine induced preneoplastic lesions in rat pancreas. *J. Natl. Cancer Inst.* 75:959-962, 1985.
62. Chen J Ohshima H Yang H Li J Campbell TC Peto R Bartsch H. A correlation study on urinary excretion of N-Nitroso compounds and cancer mortality in China: Interim Results. Proceedings of IXth International Symposium on N-Nitroso compounds. Ed., Bartsch, H. O'Neill, I.K. Schulte-Hermann. R. IARC Publications (No. 84). IARC/WHO, Lyon, France. 1987.
63. Misslbeck NG Roe DA Campbell TC. Increase in hepatic gamma-glutamyltransferase (GGT) activity following chronic ethanol intake in combination with a high a fat diet. *Biochem. Pharm.* 35:399-404, 1986.
64. Dunaif GE Campbell TC. Dietary protein level and aflatoxin B<sub>1</sub>-induced preneoplastic hepatic lesions in the rat. *J. Nutr.* 117:1298-1302, 1987.

65. Dunaif GE Campbell TC. Relative contribution of dietary protein level and aflatoxin B<sub>1</sub> dose in generation of presumptive preneoplastic foci in rat liver. *J. Nutr.* 78:365-369, 1987.
66. Chen J Ohshima H Yang H Li J Campbell TC Peto R Bartsch H. A correlation study on urinary excretion of N-nitroso compounds and cancer mortality in China: interim results. *IARC Sci. Publ.* (84): 503-506, 1987.
67. O'Connor TP Roebuck BD Campbell TC. Effect of varying dietary omega-3:omega-6 fatty acid ratio on L-azaserine induced preneoplastic development in rat pancreas. *Proceedings of the AOCS Short Course on Polyunsaturated Fatty Acids and Eicosanoids, American Oil Chemists' Society, May 14-17, 1987. Chap. 27, pp. 238-240.*
68. O'Connor, TP Campbell TC. The contribution of animal experiments to knowledge of the relationship between diet and cancer risk in humans. *Cancer Surv.*, 6:573-583, 1987.
69. Campbell TC. Chinese diet study. *Science* 240:1389, 1988.
70. Wang G Root MM Ye X Chen J Campbell TC. Routine assay of plasma carotenes by HPLC with an internal standard. *J. Micronutr. Anal.* 5:3-14, 1989.
71. Schulsinger DA Root MM Campbell TC. The effect of dietary protein quality on aflatoxin B<sub>1</sub>-induced hepatic preneoplastic lesion development. *J. Natl. Cancer Inst.*, 81:1241-1245, 1989.
72. Peto R Boreham J Chen J Li J Campbell TC Brun T. Plasma cholesterol, coronary heart disease, and cancer. *Brit. Med. J.* May 6; 298(6682): 1249, 1989.
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74. Brun TA Campbell TC Geissler CA Fu ST. Cirrhosis of the liver and mouldy bread. *Lancet*; Dec. 16; 2(8677):1453-1454, 1989.
75. He Y Campbell TC. Effects of carotenoids on aflatoxin B<sub>1</sub>- induced mutagenesis in *S. typhimurium* TA100 and TA98. *Nutr. Cancer* 13:243-254, 1990.
76. Chen J Campbell TC Parpia B Qu Y Brun T Chen C. The change of disease patterns and control strategies (in Chinese). *Chinese J. Prev. Med.* 24:290-293, 1990.
77. Campbell TC Chen J Brun T Parpia B Qu Y Chen C Geissler C. Can developing nations avoid the diseases of affluence? The case of China. In: *World Food Issues, Vol. 2, (T. Brun & M. Latham eds.)*, pp. 56-63, Center for the Analysis of World Food Issues, Program in International Agriculture, Cornell University, Ithaca, NY. 1990.
78. Marshall JR Qu Y Chen J Parpia B Campbell TC. Additional ecologic evidence: lipids and breast cancer mortality among women aged 55 and over in China. *Eur. J. Cancer* 28A:1720-1727, 1992.
79. Fan W Parker R Parpia B Qu Y Cassano P Crawford M Leyton J Tian J Li J Chen J Campbell TC. Erythrocyte fatty acids, plasma lipids and cardiovascular disease in rural China. *Am. J. Clin. Nutr.*, 52:1027-1036, 1990.

80. Campbell TC Brun T Chen J Feng Z Parpia B. Questioning riboflavin recommendations on the basis of a survey in China. *Am. J. Clin. Nutr.* 51:436-445, 1990.
81. Brun TA Chen J Campbell TC. Urinary riboflavin excretion after a load test in rural China as a measure of possible riboflavin deficiency. *Eur. J. Clin. Nutr.* 44:195-206, 1990.
82. Campbell TC. A study on diet, nutrition and disease in the People's Republic of China. Part I. *Bol. Asoc. Med. PR* 82: 132-134, 1990.
83. Potischman N McCulloch CE Byers T Nemoto T Stubbe N Milch R Parker R Rasmussen KM Root M Graham S Campbell TC. Breast cancer and dietary and plasma concentrations of carotenoids and vitamin A. *Am. J. Clin. Nutr.* 52:909-915, 1990.
84. Campbell TC Chen J Brun TA Liu C Geissler CA. Aflatoxin and primary liver cancer in The People's Republic of China. *Lancet*, 335(8698), p. 1165, May 12, 1990.
85. Forman D Sitas F Newell DG Stacey AR Boreham J Peto R Campbell TC Li J Chen J. Geographic association of *Helicobacter pylori* antibody prevalence and gastric cancer mortality in rural China. *Int J. Cancer* 46:608-611, 1990.
86. Campbell TC Chen J Liu C Li J Parpia, B. Nonassociation of aflatoxin with primary liver cancer in a cross-sectional ecologic survey in the People's Republic of China. *Cancer Res.*, 50:6882-6893, 1990.
87. Chen J Brun TA Campbell TC Li J Geissler C Li M. Plasma cotinine, smoking and lung cancer in China. *Lancet* 335:1225-6, May 19, 1990.
88. Campbell TC. A plant-enriched diet and long-term health, particularly in reference to China. *Hort. Sci.* 25:1512-1514, 1990.
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129. Goldhamer A Lisle D Parpia V Anderson SV Campbell TC. Medically supervised water-only fasting in the treatment of hypertension. *J. Manipulative. Physiol. Therap.* 24:335-339, 2001.
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**"New Century Nutrition", formerly "Nutrition Advocate, Editorials**

1. Why China holds the key to your health, 7/95.
2. Are your genes hazardous to your health?, 8/95.
3. Diet vs. dollars, tamoxifen's untold story, 9/95.
4. Soy...the rest of the story, 10/95.
5. Genetic seeds of disease, how to beat the odds, 11/95.
6. Chemical carcinogens: how safe are you?, 12/95.
7. Vegetarianism vs. science: building bridges over troubled waters, 1/96.
8. Do you need vitamin supplements?, 2/96.
9. New research: reversing heart disease with diet, 3/96.
10. RDAs: time to peel back the labels, 4/96.
11. Who's mad...cows or humans?, 5/96.

12. Food pyramid mysteries, 6/96.

Graduate student theses supervised:

**Doctoral Dissertations**

Gurtoo, H.L., 1968. Studies on Mechanisms Involved in the Induction of Microsomal Benzpyrene Hydroxylase Following Pretreatment with 3,4-Benzpyrene and Aflatoxin B<sub>1</sub>.

Portman, R.S., 1970. Aflatoxin Mode of Action as Distinguished by Species Differences.

Misra, H.P., 1972. Effect of Aflatoxin on Pyridine Nucleotide Activity: A Survey.

Doherty, W.P., 1973. Affect of Aflatoxin B<sub>1</sub> on Mitochondrial Functions.

Mgbodile, M.U.K., 1973. Microsomal Mixed Function Oxidation Mechanisms Associated with Dietary Protein Insufficiency.

Hayes, J.R., 1973. Induction of Mixed Function Oxidase Activity of Rat Liver Microsomes.

Belt, J.R., 1975. Effect of Metabolism of Aflatoxin on Mitochondrial Transcription and Translation.

Allen-Hoffman, B.L. 1980. The Effect of Phenobarbital and Diethyl Maleate on Aflatoxin B<sub>1</sub>-DNA Adduct Formation on In Vitro Mutagenicity as Influenced by Dietary Protein Intake.

Faris, R., 1982. Effects of Postnatal Phenobarbital Exposure and Nutritional Status on the Mixed-Function Oxidase System and the Formation of Aflatoxin Macromolecular Adducts in Adult Rats.

Appleton, B.S. 1983. The Effect of Dietary Protein on the Different Stages of Aflatoxin B<sub>1</sub> Induced Preneoplastic Liver Lesion Development in the Rat.

Misslbeck, N. 1983. The Effects of Chronic Ethanol Ingestion of the Development of Preneoplastic Lesions in the Liver.

Prince, L.O. 1983. Nutritional and Hormonal Factors Affecting the Binding of Aflatoxin to Rat Liver Chromatin Proteins and the Development of Preneoplastic Hepatic Lesions.

O'Connor, T.P. 1985 Effect of Dietary Fat, Protein and Selenium on the Development of L-Azaserine Induced Preneoplastic Lesions in Rat Pancreas.

Dunaif, G.E. 1985. The Kinetic Relationship between Aflatoxin B<sub>1</sub> Dose, Dietary Protein Level and Time of Emergence in the Development of Preneoplastic Liver Lesions of the Rat.

Potischman, N.A. 1989. The Associations Between Breast Cancer and Biochemical and Dietary Indicators of Nutrient Status.

Youngman, D.A. 1990. The Growth and Development of Aflatoxin B<sub>1</sub>-Induced Preneoplastic Lesions, Tumors, Metastasis, and Spontaneous Tumors as They are Influenced by Dietary Protein Level, Type, and Intervention.

He, Y. 1990. Effects of Carotenoids and Dietary Carotenoid Extracts on Aflatoxin B<sub>1</sub>-Induced Mutagenesis and Hepatocarcinogenesis.

Hu, J. 1992. A Comprehensive Study of Bone Density, Dietary Intake, and Lifestyle Characteristics in Middle Aged and Elderly Chinese Women.

Bell, R. 1992. Potential mechanisms through which low dietary protein intake inhibits the development of aflatoxin B<sub>1</sub> induced hepatic foci and tumors.

Hu, Guizhou. 1998. The Relation of Antioxidant Nutrients to Lung Function and Chronic Obstructive Pulmonary Disease.

Lin, Xu. 1998. Potential Tumor Promotion Effects of Anorectic Drugs.

Flood, A. 1998. The Construction and Assessment of a Simulation Model to Describe the Impact of Dietary Change on the Epidemiologic Transition and its Consequences in China.

#### **Masters Theses**

Baughner, W.L., 1968. Gossypol Detoxification by Fungi.

Vassef, A.A., 1967. Studies on a Bright Greenish-Yellow Fluorescent Metabolite Produced by Aspergillus Flavus on Certain Plant Materials.

Hanna, K.L., 1970. Effect of Protein Deprivation on Aflatoxin Toxicity.

Allen-Hoffman, L., 1978. The Relationship Between Hepatic Glutathione Levels and the Formation of Aflatoxin-Macromolecule Adducts In Vivo as Influenced by Dietary Protein Intake.

Rapp, J.S., 1982. The effects of a low protein diet and polychlorinated biphenyls on rat liver microsomal cytochrome P-450 and the polysubstrate monooxygenase.

Youngman, L. D., 1987 Recall, Memory, Persistence, and the Sequential Modulation of Preneoplastic Lesion Development by Dietary Protein.

#### Teaching experience:

Graduate Basic Biochemistry, 7 years (3-4 credits/year, 60-140 students/year). (1966-1973).

Principles of Chromatography (as part of two courses on Methodology 502-509), 5.5 years, approximately 25 students/year (1965-1971).

Biochemical Toxicology, 2 years (3 credits, 46 students/year) (1974-1975).



Nutritional Biochemistry, 7 years (3 credits, 140-180 students/year) (1976-84) (Shared with M. Nesheim, 1980-84).

Molecular Toxicology, 3 years (2-3 credits, 20 students/year) (1974-1981).

Nutrition for Honors Students, 3 years (1 credit, 7-10 students/yr), 1990-1992.

Various lectures in several other courses, mostly including information on Environmental Toxicology, International Nutrition, and Diet, Nutrition and Cancer.

Vegetarian nutrition (3 credits, 55-95 students/yr., undergraduate), 1996-present.

Other professional activities:

A. Outside University:

Advisory Board, Physicians Committee for Responsible Medicine, (1997-present)

Member (Ad Hoc), Research and Education Oversight Committee, American Institute for Cancer Research (1996-2000)

Co-Chair and Organizer, Asian Food Pyramid Conference, San Francisco, CA (1995)

Co-Chair, Expert Committee on Dietary Prevention of Cancer World-wide, World Cancer Research Fund (1994-1997)

Chairman, Board of Directors, Paracelsian, Inc., Ithaca, NY (2000-present)

Editor-In-Chief, New Century Nutrition, Ithaca, NY (1995-present)

Founding Director, PacificHealth, Inc. (1995-present)

Chair, Science Advisory Committee, PacificHealth, Inc. (1995-present)

Founding Director, BioSignia, Inc. (1996-present)

Member, Grants Review Panel, World Cancer Research Fund, London, U.K. (1994-1997)

Member, Health Care Costs Review Committee, American Institute for Cancer Research (1994)

Senior Science Adviser, American Institute for Cancer Research/World Cancer Research Fund (1983-1987, 1991-1997)

Member, National Cancer Institute, Ad Hoc Consultant Group on Dietary Guidelines (1989).

Member, American Cancer Society Scientific Advisory Committee on Carcinogenesis and Nutrition, 1989-1992.

Member, National Academy of Science, Committee on Food Labeling, 1989-1990.

Invited Testimony on "The Role of Dietary Factors in the Induction of Chronic Disease Processes," U.S. Senate, Governmental Affairs Committee, Chair: Senator John Glenn, Washington, D.C., March 1, 1988.

Visiting Professor, Virginia Tech, (taught 3 credit course) Summer, 1988.

Chairman, American Institute for Cancer Research Symposium on "Diet and Cancer; Public Health Messages in Product Advertising", Washington, D.C., September 1986.

Organizer and Chairman of workshop on "Diet and Cancer: From Basic Research to Policy Implications," Ithaca, N.Y., August 1982.

Nominee for President, American Institute of Nutrition (FASEB) for 1982-1983 term.

Consultant and Expert testimony, U.S. Federal Trade Commission (1982-1985).

Member, National Academy of Science Committee on Diet, Nutrition and Cancer (1980-1983).

Member, NIH Chemical Pathology Study Section, 1978, 1982-1984.

Member, Review Panel for Evaluation of Outstanding Investigator Award, NCI, 1984.

Senior Investigator. Social Epidemiology of Cancer, Saxon Graham, Principal Investigator, SUNY/Buffalo Medical Center.

National Cancer Institute Fellow to Chinese Academy of Medical Sciences (1981).

Food and Drug Administration Consultant Group on Risk Assessment (1980).

Tufts University USDA Human Nutrition Research Center, consultant (1981).

NIH Site Visit Study Sections (chairman of several program grant site visits, 1980-1990).

NCI Workshop on Experimental Diets and Chemical Carcinogenesis (1980).

American Institute of Nutrition Ad-Hoc Member, Public Nutrition Information Committee (1980-1982, Chair, last year).

FASEB/LSRO Study Workshop on Nutrient Toxicities (Co-Chairman), 1979-1980.

FASEB/LSRO Study Workshop Panel on Evaluation of Nutrient Safety, 1979-1980.

FASEB Public Affairs Committee, AIN representative (1979-1983).

Member, National Academy of Science Committee on Saccharin and Food Safety Policy, Panel II, Food Safety Regulation and Societal Impact. 1978-79.

Public Testimony on Food Safety Policy report of NAS Panel II, U.S. House of Representatives Subcommittee on Health and the Environment of the Committee on Interstate and Foreign Commerce, Washington, D.C., April 11, 1979.

Public Testimony on Food Safety Policy and Saccharin Risk Assessment, U.S. Senate, Subcommittee on Health and Science, Washington, D.C., May 9, 1979.

Board member, Professional Standards Evaluation Board in General Toxicology, Academy of Toxicological Sciences, 1981-1984.

Faculty, Annual Midwest Seminar of Dental Medicine, September, 1981.

Advisory Board, Points of View, A Nutrition Report, 1977-1981.

Public Testimony on "Diet, Nutrition and Cancer," New York State Assembly Committee on Health, New York, NY, August 10, 1978.

Editorial Board, Journal of Nutrition, 1977-1981.

Editorial Board, Drug-Nutrient Interactions, 1980-1981.

Contributing Editor, Nutrition Reviews, 1977-1981.

Editorial Board, Journal of Environmental Health Sciences, 1978-1981.

Editorial Board, Journal of Toxicology and Environmental Health Sciences, 1974-1977.

FDA/NCI Steering Committee on Mycotoxin Congress, 1976-77.

AIN Publications Management Committee, 1975-77

ASPET/AIN/FASEB Research Committee on Nutrition/Pharmacology/Toxicology, 1972.

National Academy of Science Committee on Carcinogenesis Testing in Drug Development, 1972.

- B. Seminars and lectures off campus (200+)
- C. Professional consulting with several industry and government groups (FDA; FASEB; M&M Mars, Inc.; NASA; NIH; Environ Control; Chocolate Mfgs. Assoc.; Florida Department of Citrus; Federal Trade Commission; General Mills, Inc., Health Valley, Inc., Kellogg Company, Inc., NuSkin, Inc., Hoffmann-LaRoche Pharmaceuticals, Inc., World Bank)

#### International Experience:

- A. Evaluation of Aflatoxin Problem:
  - Haiti (on site), 1966, 1974.
  - Dominican Republic (on site), 1967.
  - Philippines (on site), 1967-1975.
  - Peru, Jamaica, Brazil, Finland, Turkey (partially on site, partially on campus).
- B. Evaluation of Liver Cancer--Aflatoxin Relationship, Philippines (1966--1978); China (1983--present).
- C. Advisory capacity in organization of laboratory facilities (Dominican Republic, Indonesia, Philippines) (USAID, UNICEF sponsored).

- D. Principal Investigator and U.S. Director, Collaborative research program on diet and cancer survey in People's Republic of China (1982 - current).
- E. Collaborator in research program on dietary and lifestyle causes of disease, Republic of China (Taiwan) (1988–present).
- F. Senior Science Advisor, World Cancer Research Fund (United Kingdom, The Netherlands) (1992-present)
- G. Consultant and advisor to Central European Committee on Health and the Environment and Physicians On-The-Don (Moscow and Rostov, Russia) (1995)
- H. Advisor to Cornell International Institute for Food and Agriculture Development--in charge of Nutrition Programming (Indonesia) (1993-1996)
- I. Seminar Speaker and Frequent Informal Consultant to the World Bank (1996-1998)