

T. Colin Campbell

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:

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 Emeritus of  
Nutritional Biochemistry, Cornell University,  
Ithaca, New York

- 1991-present Honorary Professor, Chinese Academy of Preventive Medicine
- 1983-present 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, VPR&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.

Publications & Presentations (325+)

Legend: \* Books  
 \*\* Reviews  
 \*\*\* Manuscripts  
 # Abstracts  
 + Presentations

- \*\*\*1. Campbell, T.C., Warner, R. G. and Loosli, J.K. Urea and biuret for ruminants. Proc., Cornell Nutr. Conf., p. 96. 1960.
- \*\*\*2. Campbell, T.C., Loosli, J.K., Warner, R.G. and Tasaki, I. Utilization of biuret by ruminants. J. An. Sci. 22:139, 1963.
- #3. Campbell, T.C. and Fieldman, L. Metabolism of chick edema factor. Fed. Proc. 24:686 Abs, 1965.
- +4. Campbell, T.C. Mycotoxins in the Food Chain, Virginia Academy of Science, Harrisonburg, Va., May 5, 1966.
- \*\*\*5. Campbell, T.C. and Friedman, L. Chemical assay and isolation of chick edema factor in biological materials. JAOAC 49:824, 1966.
- \*\*\*6. Campbell, T.C. and Friedman, L. Chick edema factor: Some tissue distribution data and toxicologic effects in the rat and chick. Proc. Soc. Exp. Biol. Med. 121:1283, 1966.
- +7. Campbell, T.C. Aflatoxin as an Important Feed Contaminant, National Association of Feed Manufacturers, Washington, D.C., May 8, 1967.
- +8. Campbell, T.C. Influence of Environmental Factors on Mycotoxin Toxicity as Evidenced by Studies with Aflatoxin, National Meetings, American Veterinary Medical Association, Detroit, Michigan, June 20, 1967.
- \*\*9. Campbell, T.C. Invitational Paper: "Significance of Mycotoxins in the Food Chain". Va. J. Sci. 18:67, 1967.
- \*\*\*10. Campbell, T.C. Present day knowledge on aflatoxin. Phil. J. Nutr. 20: 193-201, 1967.
- \*\*\*11. Campbell, T.C. and Snider, J. Noninterference of seed coat constituents of cottonseeds using the Pons and Goldblatt aflatoxin procedures. J.Am. Oil Chem. Soc. 46:31-33, 1968.
- #12. Gurtoo, H., Campbell, T.C., Webb, R.E. and Plowman, K.M. Effects of aflatoxin and benzpyrene on microsomal hydroxylation. Fed. Proc. 27:551 Abs., 1968.
- \*\*\*13. Gurtoo, H.L., Campbell, T.C., Webb, R.E. and Plowman, K.M. Effect of aflatoxin and benzpyrene pretreatment upon the

- kinetics of benzpyrene hydroxylase. Biochem. Biophys. Res. Comm. 31:588, 1968.
- \*\*\*14. Hanna, K.L. and Campbell, T.C. A rapid thin layer chromatographic method for the preparation of aflatoxin B<sub>1</sub>. JAOAC 51:1197-1199, 1968.
- \*\*\*15. Portman, R., Campbell, T.C. and Plowman, K.M. Aflatoxin metabolism by liver microsomal preparations of two different species. Biochem. Biophys. Res. Comm. 33:711-715, 1968.
- #16. Portman, R., Campbell, T.C. and Plowman, K.M. Metabolic mechanisms affecting aflatoxin B<sub>1</sub> toxicity in two species. Fed. Proc. 27:839 Abs., 1968.
- #17. Weatherholtz, W.M., Campbell, T.C. and Webb, R.E. Effects of dietary protein level on acute toxicity and metabolism of heptachlor in the laboratory rat. Fed Proc. 27:551 Abs., 1968.
- \*\*\*18. Baugher, W.L. and Campbell, T.C. Gossypol detoxification by fungi. Science 164:1526-1527, 1969.
- \*\*\*19. Marsh, P.B., Simpson, M.E., Ferretti, R.J., Campbell, T.C. and Donoso, J. Aflatoxins in cottonseeds at harvest. I. Relation to fluorescence in the fiber. J. Ag. Food Chem. 17:462-467, 1969.
- \*\*\*20. Weatherholtz, W.M.. and Campbell, T.C. and Webb, R.E. Effect of dietary protein levels on the toxicity and metabolism of heptachlor. J. Nutr. 98:90-94, 1969.
- \*\*\*21. Wilson, B.J., Campbell, T.C., Hayes, A.W. and Hanlin, R.T. Investigation of reported aflatoxin production by fungi outside the Aspergillus flavus group. Appl. Microbiol. 16:819, 1969.
- #22. Campbell, T.C. and Portman, R.S. Aflatoxin metabolism in the rat and mouse liver. Fed. Proc. 29:567 Abs., 1970.
- \*\*\*23. Campbell, T.C., Caedo, J.P., Jr., Bulatao-Jayme, J., Salamat, L. and Engel, R.W. Aflatoxin M<sub>1</sub> in human urine. Nature 227:403-404, 1970.
- \*\*\*24. Gurtoo, H.L. and Campbell, T.C. 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.
- \*\*\*25. Portman, R.S. and Campbell, T.C. 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.

- \*\*\*26 Portman, R.S., Plowman, K.M. and Campbell, T.C. On mechanisms affecting species susceptibility to aflatoxin. *Biochem. Biophys. Acta* 208:487-495, 1970.
- \*\*\*27. Campbell, T.C. and Salamat, L. Aflatoxin ingestion and excretion by humans. In: Mycotoxins in Human Health, Purchase, I.F. (ed.) London: MacMillan Press, Ltd., pp. 271-280. 1971.
- \*\*\*28. Campbell, T.C. Detoxification of gossypol by Eumycophyta, Patent No. 3,682,645, August 8, 1972.
- +29. Campbell, T.C. Implications of Mycotoxins for Human Health, Symposium on Potentially Toxic Substances in Human Foods, Ninth International Congress of Nutrition Mexico City, Mexico, September 9, 1972.
- #30. Doherty, W.P. and Campbell, T.C. Effect of aflatoxin B<sub>1</sub> on rat liver mitochondrial electron transport. *Fed. Proc.* 31:594 Abs., 1972.
- \*\*\*31. Doherty, W.P. and Campbell, T.C. Inhibition of rat liver mitochondrial electron transport flow by aflatoxin B<sub>1</sub>. *Res. Comm. Chem. Pathol. Pharmacol.* 3:601-612, 1972.
- #32. Hayes, J.R., Mgbodile, M.U.K. and Campbell, T.C. Effect of protein deficiency on inducibility of the rat liver microsomal drug-metabolizing system. *Fed. Proc.* 31:734 Abs., 1972.
- \*\*\*33. Kornegay, E.T., Kelly, R.F., Campbell, T.C., Libke, K.G., Sandrock, R.W. and Blair, J.E. Fungal treated cottonseed meal for swine. *J. Nutr.* 102:1471-1476, 1972.
- #34. Mgbodile, M.U.K. and Campbell, T.C. Alterations in the kinetic parameters of types I and II microsomal enzyme activities in male rats following protein and energy deprivation. *Fed. Proc.* 30:440 Abs., 1972.
- \*\*\*35. Mgbodile, M.U.K. and Campbell, T.C. Effect of protein deprivation of male weanling rats on the kinetics of hepatic microsomal enzyme activity. *J. Nutr.* 102:53-60, 1972.
- #36. Mgbodile, M.U.K., Merrill, A.H. and Campbell, T.C. Time-course effects of dietary protein levels on liver microsomal protein and liver DNA of growing rats. *Fed. Proc.* 31:729 Abs., 1972.
- #37. Belt, J.A. and Campbell, T.C. Effect of aflatoxin B<sub>1</sub> on mitochondrial incorporation of UTP. *Fed. Proc.* 32:277 Abs., 1973.
- \*\*\*38. Campbell, T.C., Caedo, J.P., Jr., Bulatao-Jayme, J., Salamat, L. and Engel, R.W. Aflatoxin M<sub>1</sub> in human urine. In: Chemical and Radio-nuclide Food Contamination, Alpert, M.E. et al. (eds.). New York: MSS Information Corp., pp. 18-22. 1973.

- +39. Campbell, T.C. Nutritional Factors in Toxin Response, Symposium on Environmental Pharmacology and Toxicology, American Society for Pharmacology and Experimental Therapeutics, East Lansing, Michigan, August 20, 1973.
- \*\*\*40. Doherty, W.P. and Campbell, T.C. Aflatoxin inhibition of rat liver mitochondria. Chem.-Biol. Int. 7:63-77, 1973.
- #41. Doherty, W.P. and Campbell, T.C. The effect of aflatoxin B<sub>1</sub> on electron-transport in submitochondrial particles. Fed. Proc. 32:278 Abs., 1973.
- #42. Effect of Nutrient Intake on Toxin Metabolism, Workshop on Pharmacology, Toxicology, and Nutrition Interactions, American Institute of Nutrition, Ithaca, New York, August 15, 1973.
- #43. Gurtoo, H.L. and Campbell, T.C. Interaction of aflatoxin and their metabolites with rat liver microsomes. Proc. Intl. Congress Hepatotoxicity. Tel Aviv, Israel. 1973.
- #44. Hayes, J.R. and Campbell, T.C. Effect of protein deficiency on 3-methylcholanthrene (MC) induction of rat liver microsomal drug-metabolizing system. Fed. Proc. 32:716 Abs, 1973.
- \*\*\*45. Hayes, J.R., Mgbodile, M.U.K. and Campbell, T.C. Dependence of  $K_m$  and  $V_{max}$  on substrate concentration for rat liver hepatic microsomal ethylmorphine N-demethylase. Biochem. Pharmacol. 22:1517-1520, 1973.
- \*\*\*46. Hayes, J.R., Mgbodile, M.U.K. and Campbell, T.C. Effect of protein deficiency on the inducibility of the hepatic microsomal drug-metabolizing enzyme system. I. Effect on substrate interaction with cytochrome P450. Biochem. Pharmacol. 22:1005-1014, 1973.
- \*\*\*47. Merrill, A.H., Jr. and Campbell, T.C. Preliminary study of in vitro aflatoxin B<sub>1</sub> metabolism by human liver. J. Tox. Appl. Pharmacol. 27:210-213, 1973.
- \*\*\*48. Mgbodile, M.U.K., Hayes, J.R. and Campbell, T.C. 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.
- \*\*49. Campbell, T.C. and Stoloff, L. Implications of mycotoxins for human health. J. Agr. Food Chem. 22:1006-1015, 1974.
- \*\*50. Campbell, T.C. and Hayes, J.R. Role of nutrition in the drug metabolizing enzyme system. Pharm. Revs. 26:171-197, 1974.
- \*\*\*51. Campbell, T.C., Sinnhuber, R.O., Lee, D.J. and Salamat, L. Hepatocarcinogenic material in urine specimens from humans consuming aflatoxin. J. Natl. Cancer Inst. 52:1647-1649, 1974.

- +52. Campbell, T.C. The Effect of Diet on Drugs and Environmental Toxins, Seventh Vitamin Information Bureau Seminar for Editors and Writers on Nutrition and National Priorities, New York City, November 7, 1974.
- \*\*\*53. Gurtoo, H.L. and Campbell, T.C. Metabolism of aflatoxin B<sub>1</sub> and metabolism dependent and independent binding of aflatoxin B<sub>1</sub> to rat hepatic microsomes. *Mol. Pharmacol.* 10:776-780, 1974.
- #54. Hayes, J.R., Hartgrove, R.W., Hundley, S.G., Campbell, T.C. and Webb, R.E. Interaction of endrin and dieldrin with hepatic microsomal cytochrome P-450. *J.Tox. Appl. Pharmacol.*, 89:126 Abs., 1974.
- \*\*\*55. Hayes, J.R. Mgbodile, M.U.K. and Campbell, T.C. 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.
- #56. Merrill, A.H., Jr., Salamat, L. and Campbell, T.C. Studies on the excretion of aflatoxin and its derivatives by humans. *J. Tox. Appl. Pharmacol.*, 89:94 Abs., 1974.
- #57. Nerurkar, L.S. and Campbell, T.C. Metabolism of aflatoxin B<sub>1</sub> by an intact and reconstituted rat liver microsomal enzyme system. *J. Tox. Appl. Pharmacol.*, 29:89 Abs, 1974.
- \*\*\*58. Polan, C.E., Hayes, J.R. and Campbell, T.C. Consumption and fate of aflatoxin B<sub>1</sub> in lactating cows. *J. Agr. Food Chem.* 22:635-638, 1974.
- #59. Belt, J.A. and Campbell, T.C. Effect of aflatoxin on mitochondrial protein synthesis. *Fed. Proc.* 34:226 Abs., 1975.
- \*\*60. Campbell, T.C. and Hayes, J.R. The liver microsomal system and mycotoxin metabolism. *Microbiology*, 1975, pp. 372-380. 1975.
- +61. Campbell, T.C. Protein Deficiency and Mixed Function Oxidase Activities, Joint AIN ASPET Symposium on Nutrition and Drug Metabolism, Atlantic City, New Jersey, April, 1975.
- +62. Campbell, T.C. The Liver Microsomal System and Mycotoxin Metabolism, American Society of Microbiology Symposium on Biochemical Effects and Interactions of Mycotoxins, New York City, April, 1975.
- \*\*63. Campbell, T.C. Effect of dietary protein on drug metabolism. *Metab. Ther.*, 4(4):Winter, 1975.
- #64. Fairclough, D.L., Fox, J.P. and Campbell, T.C. Effect of aflatoxin preincubation and addition to rat liver microsomes

- on mixed function oxidase activity. Fed. Proc. 34:784 Abs., 1975.
- \*\*\*65. Hayes, J.R., Hartgrove, R.W., Hundley, S.G., Campbell, T.C. and Webb, R.E. Interaction of endrin and dieldrin with hepatic microsomal cytochrome P450 from the rat, mouse, and endrin susceptible and resistant pine voles. J. Tox. Appl. Pharmacol. 32:559-565, 1975.
- \*\*\*66. Stoloff, L., Trucksess, M., Hardin, N., Francis, O.J., Hayes, J.R., Polan, C.E. and Campbell, T.C. Studies on the stability of aflatoxin M in milk. J. Dairy Sci. 58:1789-1793, 1975.
- +67. Aflatoxin Metabolism as it Relates to its Biological Activity, National Institute of Environmental Sciences Workshop on Mutagenesis-Drug Metabolism, Research Triangle Park, Research Triangle, North Carolina, February 8, 1976.
- \*\*\*68. Campbell, T.C. Aflatoxin metabolism. In: In Vitro Metabolic Activation in Mutagenesis Testing, de Serres, F.J., Fouts, J.R., Bend, J.R., and Philpot, R.M. (eds.). New York: North-Holland Publishing Company, pp. 243-xxxx. 1976.
- \*\*69. Campbell, T.C. and Hayes, J.R. The effect of quantity and quality in dietary protein on drug metabolism. Fed. Proc. 35:2470-2474, 1976.
- \*\*70. Campbell, T.C. and Hayes, J.R. The role of aflatoxin metabolism in its toxic lesion. Tox. Appl. Pharm. 35:199-222, 1976.
- \*\*71. Campbell, T.C. Modern concepts in nutritional status and foreign compound toxicity. In: Advances in Modern Toxicology - Newer Concepts in Safety Evaluation, Mehlman, M.A., Blumenthal, H. and Shapiro, R. (eds.). New York: Academic Press, pp. 1131. 1976.
- +72. Campbell, T.C. Effects of Dietary Protein on Drug Metabolism, International Symposium on Nutrition and Drug Interrelations, Ames, Iowa, August 5, 1976.
- +73. Campbell, T.C. Effects of Nutritional Status on Drug Metabolism Symposium on Nutrient-drug Interaction at Meharry Medical College, Nashville, Tennessee, February 27, 1976.
- +74. Campbell, T.C. Nutrition and Drug Metabolizing Enzymes, Fourth Deer Lodge Conference on Clinical Pharmacology, Big Fork, Montana, September 7, 1976.
- +75. Campbell, T.C. Nutrition and Drug Metabolism, Program on Perspectives in Nutrition, Ithaca, New York, June 2, 1976.
- \*\*\*76. Preston, R.S., Hayes, J.R. and Campbell, T.C. 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.



- #77. Allen-Hoffman, B.L. and Campbell, T.C. The relationship between hepatic glutathione levels and the formation of aflatoxin B<sub>1</sub>-DNA adducts as influenced by dietary protein intake. Fed. Proc. 36:1116 Abs., 1977.
- +78. Campbell, T.C. Aflatoxin toxicity and carcinogenicity, Gordon Research Conference. 1977.
- +79. Campbell, T.C. Drug Metabolizing Enzymes as Affected by Nutritional Status, Western Hemisphere Nutrition Congress V, Quebec, Canada, August 15, 1977.
- \*\*80. Campbell, T.C. Nutrition and Drug-Metabolizing Enzymes. Clin. Pharm. Therap. 22:699-706, 1977.
- +81 Campbell, T.C. Role of nutrition in carcinogen metabolism. Gordon Research Conference, 1977.
- +82. Campbell, T.C. The Influence of Dietary Factors on Drug Metabolism in Animals, Drug Metabolism Reviews, Sarasota, Florida, November 7, 1977.
- #83. Hayes, J.R., Polan, C.E., Campbell, T.C. Bovine liver metabolism and tissue distribution of alfatoxin B<sub>1</sub>. J. Agr. Food Chem. 25:xxxxxx, 1977.
- \*\*\*84. Adekunle, A.A., Hayes, J.R. and Campbell, T.C. Interrelationships of dietary protein level, aflatoxin B<sub>1</sub> metabolism, and hepatic microsomal epoxide hydrase activity. Life Sci. 21:1785-1792, 1978.
- \*\*85. Campbell, T.C. Effects of dietary protein on drug metabolism. In: Nutr. Fedn. Monograph, Hathcock, J.N. and Coon, J.M. (eds.). New York: Academic Press, Chap. 15, pp. 409-422. 1978.
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- \*\*87. Campbell, T.C. Role of metabolic studies in evaluation of mycotoxin health risks. In: Mycotoxins in Human and Animal Health, Rodricks, J.V., Hesseltine, C.W. and Mehlman, M.A. (eds.). Park Forest South, Ill.: Pathotox Publishers, Inc., pp. 687-698. 1978.
- \*\*\*88. Campbell, T.C. Saccharin, Cancer, and calories. (Letter to editor). Science 202:260-261, 1978.
- #89. Falahee, K.J. and Campbell, T.C. The effect of dietary protein level on the in vivo covalent binding of dibenz(a,h) anthracene (DBA) to hepatic and lung DNA as a function of pretreatment with MFO modifiers. Fed. Proc. 37, xxxx Abs., 1978.

- #90. Hayes, J.R. and Campbell, T.C. Time course alternations in the covalent binding of AFB<sub>1</sub> to liver macromolecules of rats and mice. *Pharmacologist*, 20:xxxx Abs., 1978.
- \*\*\*91. Hayes, J.R., Mgbodile, M.U.K., Merrill, A.H., Jr., Nerurkar, L.S. and Campbell, T.C. The effect of dietary protein depletion and repletion on rat hepatic mixed function oxidase activities. *J. Nutr.* 108:1788-1797, 1978.
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- +93. Campbell, T.C. Testimony on "Chemical Carcinogens in the Laboratory Workplace", OSHA Hearings, Washington, D.C., June 20, 1978.
- +94. Numerous seminars and presentations on "Diet, Nutrition and Cancer", "Nutritional Toxicology," etc., to universities and public groups, 1978-1985 (6-10 per year).
- \*95. Rosenblith, W.A., Grobstein, C., Abelson, R.P., Campbell, T.C., Harris, J.L., LaDu, B.N., Jr., Miller, R.W., Nelson, H.E., Price, D.K., Rosen, S., Shapo, M.S., Williamson, O.E. and 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.
- \*96. Abramson, F.P., Campbell, T.C., McCann, J., Nelson, H.E., Samuels, S.W. Minority statement to report by Rosenblith et al.. (supra vide). 1979.
- #97. Allen-Hoffmann, B.L. and Campbell, T.C. Effect of phenobarbital and diethyl maleate pretreatment on covalent binding of <sup>3</sup>H-AFB<sub>1</sub> to hepatic macromolecules. *Fed. Proc.* 38:865 Abs., 1979.
- \*\*98. Campbell, T.C. Influence of Nutrition on Metabolism of Carcinogens. In: Adv. Nutr. Res., II. Draper, H. H. (ed.) New York: Plenum Press, pp. 29-55. 1979.
- \*\*98a. 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.
- +99. Campbell, T.C. How Toxic is Toxic--A Commentary, New York City Food Policy Conference, New York, NY, March 14, 1979.
- #100. Falahee, K.J. and Campbell, T.C. The influence of dietary protein level and 7,8-benzoflavone on the in vivo covalent binding of benz(a)pyrene to liver and lung DNA. *Fed. Proc.* 38:369 Abs., 1979.

- #101. Hayes, J.R. and Campbell, T.C. Alterations in covalent binding of aflatoxin B<sub>1</sub> to liver macromolecules as influenced by route of administration. *J. Tox. Appl. Pharmacol.*, 48:16 Abs., 1979.
- #102. Hayes, J.R. and Campbell, T.C. In vivo covalent binding of aflatoxin B<sub>1</sub> (AFB<sub>1</sub>) to DNA by rats and mice as a function of dose size. *Fed. Proc.* 38:534 Abs., 1979.
- #103. Mainigi, K.D. and Campbell, T.C. Carcinogen-macromolecular adducts in liver subcellular fractions during aflatoxin (AFB<sub>1</sub>) feeding. *AACR Proc.* 20:201 Abs., 1979.
- #104. Mainigi, K.D. and Campbell, T.C. The effect of dietary protein on the subcellular distribution and binding of aflatoxin in rat liver. *J. Tox. Appl. Pharmacol.*, 48:150, 1979.
- \*\*105. Allison, R. G., Carr, C.J. and Campbell, T.C. 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.
- \*\*106. Campbell, T.C., Allison, R.G. and Carr, C.J. Feasibility of Identifying Adverse Health Effects of Vitamins and Essential Minerals in Man. 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.
- \*\*107. Campbell, T.C. Chemical Carcinogens and Human Risk Assessment. *Fed. Proc.* 39:2467-2484, 1980.
- \*\*\*108. Campbell, T.C. LSRO reports as models. *Fed. Proc.* 39:121-122, 1980.
- \*\*109. Hayes, J.R. and Campbell, T.C. Nutrition as a modifier of chemical carcinogenesis. In: Carcinogenesis, Vol. 5: Modifiers of Chemical Carcinogenesis, Slaga, T.J. (ed.) New York: Raven Press, pp. 207-241. 1980.
- \*\*110. How Toxic is Toxic? Cooperative Extension of Erie County Nutrition Conference, Grand Island, NY, May 13, 1980.
- +111. Keynote Address: The Safety of the Food Supply-- Underdiscussed Issues, Biennial Nutrition Institute, "Toward a National Nutrition Policy," Cornell University, Ithaca, NY, June 5, 1980.
- #112. Mainigi, K.D. and Campbell, T.C. Effect of steroid hormones on the incorporation and binding of aflatoxin (AFB<sub>1</sub>) in rat liver cytosol, microsomes and nuclei. *AACR Proc.* 21:498 Abs., 1980.

- \*\*\*113. Mainigi, K.D. and Campbell, T.C. Subcellular distribution and covalent binding of aflatoxins as functions of dietary manipulation. *J. Tox. Environ. Health* 6:659-671, 1980.
- #114. Appleton, B.S. and Campbell, T.C. Effects of dietary protein level and phenobarbital on aflatoxin-induced hepatic  $\alpha$ -glutamyl transpeptidase in the rat. *Fed. Proc.* 40:3477 Abs., 1981.
- #115. Boyd, J.N., Misslbeck, N., Campbell, T.C., Babish, J.C. and Stoewsand, G.S. Application to benzo(a)pyrene fed rats of a proposed short-term in vivo carcinogen screening protocol. *J. Tox. Appl. Pharmacol.* 1:131 Abs., 1981.
- \*\*\*116. Boyd, J.N., Misslbeck, N., Babish, J.G., Campbell, T.C. and Stoewsand, G.S. 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.
- \*\*\*117. Boyd, J.N., Stoewsand, G.S., Misslbeck, N., Campbell, T.C., Mason, R., Lepp, A. and Odstrchel, G. Enhancement of plasma  $\alpha$ -fetoprotein, as measured by sandwich-type radioimmunoassay, and induction of  $\alpha$ -glutamyl transpeptidase-positive hepatic cell foci in rats fed benzo(a) pyrene. *J. Tox. Environ. Health* 7:1025-1035, 1981.
- \*\*\*118. Campbell, T.C. A decision tree approach to the regulation of food chemicals associated with irreversible toxicities. *Regulatory Tox. Pharm.* 1:193-201, 1981.
- \*\*119. Campbell, T.C., Allison, R.G. and Fisher, K.D. Nutrient Toxicity. *Nutr. Revs.* 39:249-256, 1981.
- +120. Campbell, T.C. Five lectures on environmental carcinogenesis, cancer risk assessment and diet and cancer. Chinese Academy of Medical Sciences and Beijing Cancer Institute, Beijing, China, Oct. 1-14, 1981.
- \*\*121. Campbell, T.C. More is not necessarily better. *Natural History*, 90:12-16, 1981.
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- +275. Campbell, T.C. Nutrition and Plant Based Diets. Canadian Natural Health Society, Montreal Canada. October 8, 1991.
- +276. Campbell, T.C. Keynote address. Central Massachusetts Dietetic Association, Worcester, MA, October 17, 1991.
- +277. Campbell, T.C. Keynote address. The American Dietetic Association annual meeting. Dallas, TX, October 27, 1991.
- +278. Campbell, T.C. Cancer and Dietary Antioxidants: A Case Study in China. Pennington Conference. Baton Rouge, LA, October 29, 1991.
- +279. Campbell, T.C. Breaking a Nutrition Paradigm. Mark Gehlar Lecture. Salem, OR. November 14, 1991.
- +280. Campbell, T.C. Correlating Eating Habits and Health: Lessons from a Study in China. Grand Rounds Lecture. Salem, OR. November 15, 1991.
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- \*\* 337. Campbell, TC. Book review: "Why Some Like It Hot: Food, Genes and Cultural Diversity" by Gary Paul Nabhan. *Nature* 431: 907-908, 2004.
- \*\*\* 338. Campbell, TC. Dietary protein, growth factors, and cancer (letter to the editor). *Am. J. Clin. Nutr.* 85:1667, 2007
- \*\*\* 339. Campbell, TC. Letters from the Global Literature: Unresolved issue and responses. Response to Gardner, C.D. et al ("Comparison of the Atkins, Zone, Ornish, and LEARN diets for change in weight and related risk factors among overweight premenopausal women.") *Med. Gen. Med.* <http://www.medscape.com>. July 2007

"New Century Nutrition", formerly "Nutrition Advocate, Editorials:

Why China holds the key to your health, 7/95.

Are your genes hazardous to your health?, 8/95.

Diet vs. dollars, tamoxifen's untold story, 9/95.

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Genetic seeds of disease, how to beat the odds, 11/95.

Chemical carcinogens: how safe are you?, 12/95.

Vegetarianism vs. science: building bridges over troubled waters, 1/96.

Do you need vitamin supplements?, 2/96.

New research: reversing heart disease with diet, 3/96.

RDAs: time to peel back the labels, 4/96.

Who's mad...cows or humans?, 5/96.

Food pyramid mysteries, 6/96.

Graduate student theses supervised:

A. Doctoral Theses:

- 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.

B. 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.

(About 8-10 now underway or recently completed).

C. Graduate Student Advisory Committees (about 5 current)

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 (undergraduate) 1996-97.

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-present)

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)

Member, Board of Directors, Paracelsian, Inc., Ithaca, NY (1994-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, Biomar International, Inc. (1996-present)

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

Member, International Scientific Advisory Board, Oldways Preservation & Exchange Trust (1994-present)

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

Senior Science Adviser, American Institute for Cancer Research/World Cancer Research Fund (1983-1988, 1992-present)

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

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

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.

Senior Science Advisor, American Institute for Cancer Research (1983-1987)

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

Consultant, 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-present).

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

American Institute of Nutrition Ad-Hoc Committee on Public Nutrition Affairs, Ex Officio, 1980-present).

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. VPI & SU:

University Patents Committee, 1973-1975

University Committee on International Programs, 1972-1975  
Chairman, Subcommittee on Research and Development (UCIP), 1972-1975

College Research Advisory Committee, 1969

Departmental Graduate Student Committee, 1970-1974

Departmental Executive Committee, 1974-1975

Curriculum Committee, 1966-1971

International Nutrition Committee, 1972-1975

C. Cornell:

Division Council, 1975-1976

Division Curriculum Committee, 1975-1978

Faculty Search Committees, 1976-1977, 1979

Division International Nutrition Committee, 1975-1978

Chairman, Toxicology Seminar, 1976-1978, 1979

Division Building Committee

Radiation Zone Supervisor (1978-1984)

D. Seminars and lectures off campus (200+)

E. 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., World Bank)

International Experience:

- A. Evaluation of Aflatoxin Problem:  
 Haiti (on site), 1966, 1974.  
 Dominican Republic (on site), 1967.  
 Philippines (on site), 1967, 1969, 1970, 1972, 1973, 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 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)

Personal Interests:

Family Activities  
 Little League Coaching  
 Gardening  
 Reading (philosophy, history)  
 Bicycling