

CURRICULUM VITAE

James E. Gibson, Ph.D.
Department of Pharmacology and Toxicology
The Brody School of Medicine at East Carolina University
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EDUCATION

The Executive Program, Graduate School of Business Administration,
University of North Carolina, Chapel Hill, NC
Ph.D. Pharmacology, *University of Iowa, Iowa City, IA*
M.S. Pharmacology, *University of Iowa, Iowa City, IA*
B.A. Biology-Chemistry, *Drake University, Des Moines, IA*

PROFESSIONAL EXPERIENCE

THE BRODY SCHOOL OF MEDICINE AT EAST CAROLINA UNIVERSITY,
Greenville, NC *2002-present*

Research Professor of Pharmacology and Toxicology.

In addition to teaching and establishing a program in toxicology I am pursuing my research interests in developing and evaluating innovative *in vitro* methods for the safety assessment of, and exposure assessment of, products of biotechnology, nanotechnology, dietary supplements and algal toxins.

EAST CAROLINA UNIVERSITY,
Greenville, NC *2004-present*
Adjunct Research Professor of Biology

DOW AGROSCIENCES, *Indianapolis, Indiana* *1997-2002 (retired)*

Dow AgroSciences is a world leader in the development and manufacture of chemicals and biotechnology for agriculture.

Global Leader, Health, Environmental Sciences/Regulatory

Responsible for protecting \$3 billion in sales by obtaining and maintaining global registrations for chemicals and biotechnology products with a staff of 275 scientists and technicians working in 30 countries and a budget of greater than \$80 million.

- Managed 15 direct reports including senior managers operating in the North America, Europe (Middle East and Africa), Latin America and Asia Pacific.
- Extensive travel in these regions to influence government officials and the public on matters of science and policy and to lead product defense strategies.

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- Established process for biotechnology risk analysis/policy development with the Public Policy Team in a threatening regulatory environment.
 - Provided industry and company issue management leadership through key science support within various trade and professional associations and universities (with adjunct appointments at the Indiana University School of Medicine and the Purdue University College of Pharmacy).

DOWELANCO, Indianapolis, Indiana

1995 - 1997

Director, North America Research and Development

Responsible for field development of products through management of an extensive field staff located in all geographic areas of the region and for all product registration activities in the U.S., Canada and Mexico as above.

- Realized measurable benefits of in-house capability to develop exposure and risk assessments and peer-reviewed publications for defense of products.
- Maintained a work environment to foster creativity, risk-taking, ownership and continuous improvement, supporting individual and team project success and professional growth.
- Led the field development and registration of 5 new products for North American market, assuring high potential product goals through the effective assessment of product candidates.

DOWELANCO, Indianapolis, Indiana

1990 - 1995

Global Director, Regulatory, Toxicology and Environmental Affairs

Integrated the regulatory laboratory functions (toxicology, environmental chemistry and critical quality assurance) in the joint venture creation of DowElanco from the agrochemical businesses of Dow Chemical Company and Eli Lilly and Company through successful management of people and processes.

- Prioritized and delivered effective regulatory packages on-time, and aligned business resource allocation and adherence to harmonized dossiers, through effective study planning.
- Established in-house capability to develop empirical exposure data and risk assessments as replacements for theoretical exposure estimates and safety margins.
- Prolonged the lifespan and uses of older products through proactive and reactive product defense activities.
- Successfully brought together 200+ people in the regulatory and laboratory functions of two high-profile companies at new headquarters site.
- Implemented succession plans, a staff promotion planning database, and a global excellence award (recognition).

THE DOW CHEMICAL COMPANY, Midland, Michigan

1989 - 1990

Director of Toxicology Affairs

Managed the process of educating government and the public on critical matters of science and policy and to lead product defense strategies

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CHEMICAL INDUSTRY INSTITUTE OF TOXICOLOGY,

Research Triangle Park, North Carolina

1976 - 1988

Vice President and Director of Research

Established the scientific staff and research programs from the inception of this independent, non-profit research institute created by a consortium of major chemical companies.

- Established an international reputation for scientific excellence and creativity with 150 people and a budget of \$20 million.
- Led the development of the practice of risk assessment in toxicology.
- Developed an extensive and highly respected postdoctoral and predoctoral training program in all aspects of toxicology and risk assessment with “graduates” holding responsible positions throughout government, academia and industry.
- Developed strong working relationships for research and training with each of the Research Triangle Park universities (Duke University, University of North Carolina and North Carolina State University and maintained adjunct appointment as Professor at each) and research institutes.

PHARMAKOLOGISCHES INSTITUT, DER UNIVERSITÄT MAINZ, Mainz, Germany 1975 -1976

Visiting Professor

MICHIGAN STATE UNIVERSITY, East Lansing, Michigan

1969 - 1976

Assistant/Associate/Professor, Department of Pharmacology

UNIVERSITY AFFILIATIONS

INDIANA UNIVERSITY SCHOOL OF MEDICINE, Indianapolis, Indiana

1990 - Present

Adjunct Professor, Department of Pharmacology and Toxicology

PURDUE UNIVERSITY SCHOOL OF PHARMACY, West Lafayette, Indiana

1990 - Present

Adjunct Professor, Department of Pharmacology and Medicinal Chemistry

NORTH CAROLINA STATE UNIVERSITY, Raleigh, North Carolina

1985 - 1989

Adjunct Professor, Toxicology Program

2002 - Present

DUKE UNIVERSITY MEDICAL CENTER, Durham, North Carolina

1984 - 1989

Adjunct Professor, Department of Pharmacology

UNIVERSITY OF NORTH CAROLINA, Chapel Hill, North Carolina

1981 - 1989

Adjunct Professor, Curriculum in Toxicology

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PROFESSIONAL AFFILIATIONS

- International Society of Regulatory Toxicology and Pharmacology (1997)
- Immunotoxicology Specialty Section, Society of Toxicology (1984)
- Reproductive and Developmental Toxicology Specialty Section, Society of Toxicology (1983)
- Mechanisms Specialty Section, Society of Toxicology (1980)
- Society for Risk Analysis (1985)
- International Society for the Study of Xenobiotics (1982)
- North Carolina Society of Toxicology (1980)
- The Society of Toxicology (1973)
- American Society for Pharmacology and Experimental Therapeutics (1972)
- Society for Developmental Biology (1970)
- American Association for the Advancement of Science (1969)
- The Society of the Sigma Xi (1969)
- The Teratology Society (1967)

HONORS

Alexander von Humboldt Senior U.S. Scientist Award, 1975-1976:

The Alexander von Humboldt Foundation presents the U.S. Senior Scientist Award to a limited number of established scholars to continue their studies in Germany for a period of one year. The Award is given only to established scientists.

Recipient of the Society of Toxicology Achievement Award, 1977:

The Society of Toxicology Achievement Award is presented to a member of the Society of Toxicology, who is less than 36 years of age, and who has made significant contributions to Toxicology.

Fellow, Academy of Toxicological Sciences, 1981

Who's Who in America

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MAJOR ADVISORY POSTS - PROFESSIONAL

2001-present *Founding Member*, Editorial Board, Nonlinearity in Biology, Toxicology and Medicine
1990-1996 *Member*, Board of Directors, Academy of Toxicological Sciences
1988-1989 *President*, Society of Toxicology
1987-1996 *Editorial Advisor*, Pharmacology & Toxicology
1987-1988 *Vice President*, Society of Toxicology
1986-present *Editorial Board*, Archives of Toxicology
1986-present *Editorial Board*, Toxicology and Industrial Health
1986-1987 *Vice President-Elect*, Society of Toxicology
1986-1992 *Secretary-General*, International Union of Toxicology
1983-1986 *Director*, International Union of Toxicology (IUTOX)
1983-1984 *President*, North Carolina Society of Toxicology
1982-1984 *Council*, Society of Toxicology
1980-1986 *Associate Editor*, Toxicology and Applied Pharmacology

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ADVISORY POSTS – GOVERNMENT

- 2006 Member, Science Advisory Board on Toxic Air Pollutants, North Carolina Department of the Environment and Natural Resources/Division of Air Quality Toxics Protection Branch.
- 2003 Committee on the Framework for Evaluating the Safety of Dietary Supplements for The National Academy of Science, Food and Nutrition Board, Board on Life Sciences
- 2003 Reviewer, Human Health Research Program, The National Institute of Environmental Health Sciences
- 2002 Member, Human Health Research Strategy Review Panel of the EPA Science Advisory Board
- 1998 *Member*, Food Quality Protection Act Board, EPA
- 1998 *Member*, Joint Science Advisory Board/Science Advisory Panel Review Panel for Endocrine Disruption Screening and Testing Advisory Committee, EPA
- 1997 *Consultant*, Science Advisory Panel, EPA
- 1996 *Advisor*, National Science Foundation, U.S.-Egypt Manufacturing Technologies, Cairo, Egypt
- 1989 *Advisor*, European Science Foundation, Program of Research Fellowships in Toxicology
- 1988-1989 *Chair*, Search Committee for the Position of Director of the Neurotoxicology Division of the Health Effects Research Laboratory, EPA
- 1986-1990 *Member*, Oversight Committee, Workshop on Biological Markers, National Academy of Sciences - National Research Council
- 1986 *Member*, Scientific and Technology Achievement Awards Subcommittee, Science Advisory Board, EPA
- 1985-1988 *Member*, Scientific Review Panel, National Library of Medicine
- 1985-1989 *Member*, Environmental Health Sciences Review Committee (Study Section), National Institute of Environmental Health Sciences
- 1985-1989 *Member*, Risk Assessment Research Panel, Environmental Health Committee, Science Advisory Board, EPA
- 1983-1990 *Consultant*, Science Advisory Board, EPA
- 1982-1983 *Member*, Laboratory Review Subcommittee, Science Advisory Board, U.S. Environmental Protection Agency (EPA)
- 1980-1983 *Chairman*, Source Review Group for Carcinogenicity and Toxicity Studies in Laboratory Animals, National Cancer Institute, Bethesda, Maryland

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- 1978-1982 *Member*, Subcommittee on Toxicology, Safe Drinking Water Committee, National Academy of Sciences, National Research Council, Washington, DC
- 1978-1982 *Member*, Study Section on Toxicology Training. National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina
- 1978-1979 *Chairman*, Proposal Review Committee, Carcinogenicity Studies in Rodents. National Cancer Institute, Bethesda, Maryland
- 1976-1977 *Consultant* to Review Panel on New Drugs, Department of Health Education and Welfare

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ADVISORY POSTS - INDUSTRY

2003- Science Advisor, and member Board of Trustees, ILSI/HESI

2001-2002 *Member*, ILSI Communications/Publications Committee

2001-2002 *Member*, Chemicals Committee, CropLife International

2000-2002 *Member*, Food and Agriculture Science and Regulatory Committee, Biotechnology Industry Organization (BIO)

2000-2002 *Member*, Biotechnology Committee, CropLife International

1999-2002 *Member*, Strategic Planning Committee, American Crop Protection Association

1998-2001 *Member*, Intergovernmental Forum on Chemical Safety Shadow Group

1998-2001 *Member*, intergovernmental Forum on Chemical Safety Endocrine Effects Subgroup

1998-2002 *Member*, Global Crop Protection Federation Technical Scientific and Regulatory Steering Committee

1998-2000 *President*, ILSI Health and Environmental Sciences Institute

1998-2000 *Chairman*, Science and Regulatory Oversight Committee, American Crop Protection Association

1996-1998 *Vice President*, Board of Trustees, ILSI Health & Environmental Sciences Institute

1997-1999 *Liaison*, American Crop Protection Association, Harvard University "Blue Ribbon Advisory Panel", Agricultural Health Study

1997-1999 *Chair*, American Crop Protection Association, Interdisciplinary Task Force on the Agricultural Health Study of the National Cancer Institute

1995-2002 *Member*, Board of Trustees, ILSI Health & Environmental Sciences Institute

1995-2001 *Member*, Science and Regulatory Oversight Committee, American Crop Protection Association

1989-1993 *Chairman*, Peroxisome Proliferation Working Group. ILSI Health and Environmental Sciences Institute

1987-1990 *Member*, Scientific Advisory Committee for the Joint Industry Research Project on Benzene

1986-1989 *Board of Scientific Directors*, International Life Sciences Institute (ILSI), Risk Science Institute

1978-1980 Monsanto Fund *Board of Directors*, Fellowships in Toxicology

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ADVISORY POSTS - PROFESSIONAL

1992-1994 *Elected Member*, Nominating Committee, Society of Toxicology
1990-1991 *Chairman*, Nominating Committee, Society of Toxicology
1989-1990 *Chairman*, Ethics Committee, Society of Toxicology
1989-1990 *Liaison*, Burroughs Wellcome Toxicology Scholar Award Advisory Committee
1989-1990 *Chairman*, Awards Committee, Society of Toxicology
1987-1995 *Liaison* to IUTOX, Society of Toxicology,
1987-1989 *Member*, Finance Committee, Society of Toxicology
1987-1989 *Auditor*, Board of Publications, Society of Toxicology
1987-1988 *Chairman*, Program Committee, Society of Toxicology
1986-1987 *Member*, Awards Committee, Society of Toxicology
1986-1987 *Co-Chairman*, Program Committee, Society of Toxicology
1986-1987 *Liaison*, Nominating Committee, Society of Toxicology
1986-1987 *Liaison*, Long-Range Planning Committee, Society of Toxicology
1985 *Guest Associate Editor*, Journal of Pharmacology and Experimental Therapeutics
1984-1985 *President*, North Carolina Society of Toxicology
1983-1986 *Member*, Finance Committee, IUTOX
1983-1986 *Chairman*, Scientific Committee, IUTOX
1982-1983 *President Elect*, North Carolina Society of Toxicology
1981-1982 *Vice President*, North Carolina Society of Toxicology
1980-1982 *Member*, Finance Committee, Society of Toxicology
1979-1982 *Member*, Program Committee, Society of Toxicology
1978-1979 *Member*, Awards Committee, Society of Toxicology
1978-1985 *Editorial Board*, Perspectives in Toxicology
1977-1978 *Chairman*, Educational Committee, Society of Toxicology
1976-1980 *Editorial Board*, Toxicology and Applied Pharmacology
1976-1978 *Member*, ASPET Committee on Environmental Pharmacology

PUBLICATIONS

1. Scudder, C. L., Karczmar, A. G., Everett, G. M., Gibson, J. E., and Rifkin, M. (1966). Brain Catecholamines and Serotonin Levels in Various Strains and Genera of Mice and a Possible Interpretation for the Correlations of Amine Levels with Electroshock Latency and Behavior. *Int. J. Neuropharmacol.* 5: 343-351.
2. Gibson, J. E. and Becker, B. A. (1967). Demonstration of Enhanced Lethality of Drugs in Hypoexcretory Animals. *J. Pharm. Sci.* 56: 1503-1505.
3. Gibson, J. E. and Becker, B. A. (1967). The Administration of Drugs to One Day Old Animals. *Laboratory Animal Care* 17: 524-527.
4. Becker, B. A. and Gibson, J. E. (1967). A Simple Method for the Production of Anuria in Mice. *Proc. Soc. Exptl. Biol. Med.* 124: 296-298.
5. Becker, B. A., Linder, J. and Gibson, J. E. (1967). Effect of Hemicholinium on the Morphology of the Developing Chick Embryo. *Toxicol. Appl. Pharmacol.* 10: 27-39.
6. Gibson, J. E. and Becker, B. A. (1968). The Teratogenicity of Cyclophosphamide in Mice. *Cancer Res.* 28: 475-480.
7. Becker, B. A., Hindman, K. L. and Gibson, J. E. (1968). Enhanced Mortality of Selected Central Nervous System Depressants in Hypoexcretory Mice. *J. Pharm. Sci.* 57: 1010.
8. Gibson, J. E. and Becker, B. A. (1968). Teratogenic Effects of Diphenylhydantoin in Swiss-Webster and A/J Mice. *Proc. Soc. Exptl. Biol. Med.* 128: 905-909.
9. Gibson, J. E. and Becker, B. A. (1968). Impairment of Motor Function of Neonatal Chicks by Hemicholinium Treatment During Incubation. *Toxicol. Appl. Pharmacol.* 14: 380-392.
10. Gibson, J. E. and Becker, B. A. (1968). Effect of Phenobarbital and SKF 525-A on the Teratogenicity of Cyclophosphamide in Mice. *Teratology* 1: 393-398.
11. Gibson, J. E. and Becker, B. A. (1970). Placental Transfer, Embryotoxicity and Teratogenicity of Thallium Sulfate in Normal and Potassium Deficient Rats. *Toxicol. Appl. Pharmacol.* 16: 120-132.
12. Becker, B. A. and Gibson, J. E. (1970). Teratogenicity of Cyclohexylamine in Mammals. *Toxicol. Appl. Pharmacol.* 17: 551-552.
13. Gibson, J. E. and Becker, B. A. (1971). Teratogenicity of Structural Truncates of Cyclophosphamide in Mice. *Teratology* 4: 141-150.
14. Gibson, J. E. and Becker, B. A. (1971). Effect of Phenobarbital and SKF 525-A on Placental Transfer of Cyclophosphamide in Mice. *J. Pharmacol. Exptl. Therap.* 177: 256-262.

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15. Short, R. D. and Gibson, J. E. (1971). Development of Cyclophosphamide Activation and its Implications in Perinatal Toxicity to Mice. *Toxicol. Appl. Pharmacol.* 19: 103-110.
16. Short, R. D. and Gibson, J. E. (1971). The Effects of Cyclophosphamide and Nornitrogen Mustard Administration to One-day-old Mice. *Experientia* 27: 805-806.
17. Eiseman, J. L., Gehring, P. J. and Gibson, J. E. (1972). The *In Vitro* Metabolism of 2,4-Dinitrophenol by Rat Liver Homogenates. *Toxicol. Appl. Pharmacol.* 21: 275-285.
18. Hayes, F. D., Short, R. D. and Gibson, J. E. (1972). A Correlation Between Cyclophosphamide Induced Leukopenia in Mice and the Presence of Alkylating Metabolites. *Proc. Soc. Exptl. Biol. Med.* 139: 417-421.
19. Short, R. D., Rao, K. S. and Gibson, J. E. (1972). The *In Vivo* Biosynthesis of DNA, RNA and Proteins by Mouse Embryos After a Teratogenic Dose of Cyclophosphamide. *Teratology* 6: 129-137.
20. Murray, R. M. and Gibson, J. E. (1972). A Comparative Study of Paraquat Intoxication in Rats, Guinea Pigs and Monkeys. *Exptl. Mol. Path.* 17: 317-325.
21. Gibson, J. E. (1973). Teratology Studies in Mice with 2-Sec-butyl-4,6-dinitrophenol (Dinoseb). *Fd. Cosmet. Toxicol.* 11: 31-43.
22. Gibson, J. E. and Rao, K. S. (1973). Disposition of 2-Sec-butyl-4,6-dinitrophenol (Dinoseb) in Pregnant Mice. *Fd. Cosmet. Toxicol.* 11: 45-52.
23. Bus, J. S., Short, R. D. and Gibson, J. E. (1973). Effect of Phenobarbital and SKF 525-A on the Toxicity, Elimination and Metabolism of Cyclophosphamide in Newborn Mice. *J. Pharmacol. Expt. Therap.* 184: 749-756.
24. Hayes, F. D., Short, R. D. and Gibson, J. E. (1973). Differential Toxicity of Monochloroacetate, Monofluoroacetate and Monoiodoacetate in Rats. *Toxicol. Appl. Pharmacol.* 26: 93-102.
25. Short, R. D. and Gibson, J. E. (1973). Biosynthesis of Deoxyribonucleic Acid, Ribonucleic Acid and Protein *In Vitro* by Neonatal Mice After a Toxic Dose of Cyclophosphamide. *Biochem. Pharmacol.* 22: 3181-3188.
26. Bus, J. S. and Gibson, J. E. (1973). Teratogenicity and Neonatal Toxicity of Ifosfamide in Mice. *Proc. Soc. Exptl. Biol. Med.* 143: 965-970.
27. Eiseman, J. L., Gehring, P. J. and Gibson, J. E. (1974). Kinetics in *In Vitro* Nitro Reduction of 2,4-Dinitrophenol by Rat Liver Homogenates. *Toxicol. Appl. Pharmacol.* 27: 140-144.
28. Murray, R. M. and Gibson, J. E. (1974). Paraquat Disposition in Rats, Guinea Pigs and Monkeys. *Toxicol. Appl. Pharmacol.* 27: 283-291.
29. Short, R. D. and Gibson, J. E. (1974). Protein Half-lives in Neonatal Mice After a Toxic Dose of Cyclophosphamide. *Experientia* 30: 397-399.

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30. Short, R. D. and Gibson, J. E. (1974). ^{14}C -Cyclophosphamide Alkylation of Mouse Embryo Macromolecules. *Proc. Soc. Exptl. Biol. Med.* 145: 620-624.
31. Gibson, J. E. (1974). Role of Biotransformation Reactions in Prenatal and Postnatal Chemical Toxicity. *In: Progress in Analytical Chemistry.* Plenum Publishing Corporation.
32. Bus, J. S. and Gibson, J. E. (1974). Bidrin: Perinatal Toxicity and Effect on Development of Acetylcholinesterase and Choline Acetyltransferase in Mice. *Fd. Cosmet. Toxicol.* 12: 313-322.
33. Bus, J. S., Aust, S. D. and Gibson, J. E. (1974). Superoxide- and Singlet Oxygen Catalyzed Lipid Peroxidation as a Possible Mechanism for Paraquat (Methyl Viologen) Toxicity. *Biochem. Biophys. Res. Comm.* 58: 749-755.
34. Van Osten, G. K. and Gibson, J. E. (1975). Effect of Paraquat on the Biosynthesis of Deoxyribonucleic Acid, Ribonucleic Acid and Protein in the Rat. *Fd. Cosmet. Toxicol.* 13: 47-54.
35. Preache, M. M. and Gibson, J. E. (1975). The Effect of Food Deprivation, Phenobarbital, and SKF-525A on Teratogenicity Induced by 2-Sec-butyl-4,6-dinitrophenol (Dinoseb) and on Disposition of [^{14}C]Dinoseb in Mice. *J. Toxicol. Environ. Health* 1: 107-118.
36. Bus, J. S. Aust, S. D. and Gibson, J. E. (1975). Lipid Peroxidation: A Possible Mechanism for Paraquat Toxicity. *Res. Comm. Chem. Path. Pharmacol.* 11: 31-38.
37. Bus, J. S. and Gibson, J. E. (1975). Postnatal Toxicity of Chronically Administered Paraquat in Mice and Interactions with Oxygen and Bromobenzene. *Toxicol. Appl. Pharmacol.* 33: 461-470.
38. Bus, J. S., Preache, M. M., Cagen, S. Z., Posner, H. S., Eliason, B. C., Sharp, C. W. and Gibson, J. E. (1975). Fetal Toxicity and Distribution of Paraquat and Diquat in Mice and Rats. *Toxicol. Appl. Pharmacol.* 33: 450-460.
39. Preache, M. M. and Gibson, J. E. (1975). Effect in Mice of High and Low Environmental Temperature on the Maternal and Fetal Toxicity of 2-Sec-butyl-4,6-dinitrophenol (Dinoseb) and on Disposition of [^{14}C]-Dinoseb. *Teratology* 12: 147-156.
40. Ecker, J. L., Gibson, J. E. and Hook, J. B. (1975). *In Vitro* Analysis of the Renal Handling of Paraquat. *Toxicol. Appl. Pharmacol.* 34: 170-177.
41. Ecker, J. L., Hook, J. B. and Gibson, J. E. (1975). Nephrotoxicity of Paraquat in Mice. *Toxicol. Appl. Pharmacol.* 34: 178-186.
42. Bus, J. S. Cagen, S. Z., Olgaard, M. and Gibson, J. E. (1976). Mechanism of Paraquat Toxicity in Mice and Rats: Protection by Phenobarbital Pretreatment and Oxygen Tolerance and Effects on Tissue Antioxidants. *Toxicol. Appl. Pharmacol.* 35: 501-513.
43. Cagen, S. Z., Janoff, A. S., Bus, J. S. and Gibson, J. E. (1976). Effect of Paraquat (Methyl Viologen) on Liver Function in Mice. *J. Pharmacol. Exptl. Therap.* 198: 222-228.
44. Dent, J. G., Netter, K. J. and Gibson, J. E. (1976). Effects of Chronic Administration of Polybrominated Biphenyls on Parameters Associated with Hepatic Drug Metabolism. *Res. Comm. Chem. Path. Pharmacol.* 13: 75-82.

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45. Dent, J. G., Netter, K. J. and Gibson, J. E. (1976). The Induction of Hepatic Microsomal Metabolism in Rats Following Acute Administration of a Mixture of Polybrominated Biphenyls. *Toxicol. Appl. Pharmacol.* 38: 234-249.
46. Bus, J. S., Aust, S. D. and Gibson, J. E. (1976). Paraquat Toxicity: A Proposed Mechanism of Action Involving Lipid Peroxidation. *Environ. Health Persp.* 16: 139-146.
47. Gibson, J. E. (1976). Perinatal Nephropathies. *Environ. Health Persp.* 15: 121-130.
48. Preache, M. M. and Gibson, J. E. (1976). Effects of Cyclophosphamide Treatment of Newborn Mice on the Development of Swimming and Reflex Behavior and on Adult Behavioral Performance. *Develop. Psychobiol.* 9: 555-567.
49. Gibson, J. E. and Cagen, S. Z. (1977). Paraquat Induced Functional Changes in Kidney and Liver. In: *Proc. Conf.: Biochemical Mechanisms of Paraquat Toxicity*. Autor, A.P., Ed., Academic Press, pp. 117-136.
50. Bus, J. S., Aust, S. D. and Gibson, J. E. (1977). Lipid Peroxidation as a Proposed Mechanism for Paraquat Toxicity. In: *Proc. Conf.: Biochemical Mechanisms of Paraquat Toxicity*. Autor, A.P., Ed., Academic Press, pp. 157-174.
51. Cagen, S. Z. and Gibson, J. E. (1977). Effect of Carbon Tetrachloride on Hepatic Transport of Quabain in Developing Rats. *Proc. Soc. Exptl. Biol. Med.* 154: 188-191.
52. Cagen, S. Z. and Gibson, J. E. (1977). Liver Damage Following Paraquat in Selenium-deficient and Diethyl Maleate-pretreated Mice. *Toxicol. Appl. Pharmacol.* 40: 193-200.
53. Roes, U., Dent, J. G., Netter, K. J. and Gibson, J. E. (1977). Effect of Polybrominated Biphenyls on Bromobenzene Lethality in Mice. *J. Toxicol. Environ. Health* 3: 663-671.
54. Dent, J. G., Roes, U., Netter, K. J. and Gibson, J. E. (1977). Stimulation of Hepatic Microsomal Metabolism in Mice by a Mixture of Polybrominated Biphenyls. *J. Toxicol. Environ. Health* 3: 651-661.
55. Dent, J. G., Cagen, S. Z., McCormick, K. M., Rickert, D. E. and Gibson, J. E. (1977). Liver and Mammary Arylhydrocarbon Hydroxylase and Epoxide Hydratase in Lactating Rats Fed Polybrominated Biphenyls. *Life Sciences* 20: 2075-2080.
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