

## VITA

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Diplom-Chemiker July 1966.  
Dissertation on "Metabolism of Endrin in Mammals" Dr.rer.nat.  
Faculty of Science of the University of Bonn in December 1969

Employment: Jan.1968 - Feb.1971: Scientific Assistant at the Department of  
Chemistry at the University of Bonn  
Feb.1971 - Aug.1985: Gesellschaft fuer Strahlen- und  
Umweltforschung (GSF) Munich, Germany, Institut fuer  
Oekologische Chemie:  
1971 to1973: Head of research group "Dispersion Tendencies of  
Environmental Chemicals"  
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the International Center of Environmental Safety,  
Holloman A.F.B., New Mexico and at White Sands  
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1985 - present: New Mexico State University, Las Cruces, NM,  
Coordinator of the Instructional Program in Toxicology

Appointments: 1977: Adjunct Associate Professor of Toxicology, Albany  
Medical College of Union University  
1979: Adjunct Associate Professor of Chemistry,  
New Mexico State University  
1985: Professor of Chemistry, New Mexico State University  
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1998-2002: Academic Department Head, Department of Chemistry  
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Memberships: American Chemical Society  
American Association for the Advancement of Science

## PUBLICATIONS

W.KLEIN, F.KORTE, I.WEISGERBER, R.KAUL, W.F.MUELLER, A.DJIRSARAI  
Ueber den Metabolismus von Endrin, Heptachlor und Telodrin. Qualitas Plant.  
Mater. Vegetabiles 8-III, 1968

F.KORTE, W.KLEIN, I.WEISGERBER, R.KAUL, W.F.MUELLER, A.DJIRSARAI Recent Results in Studies on the Fate of Chlorinated Insecticides. Ind. Med. Surg. 37 (7), 527, 1968

W.KLEIN, W.F.MUELLER, F.KORTE  
Insektizide im Stoffwechsel XVI. Ausscheidung, Verteilung und Stoffwechsel von Endrin <sup>14</sup>C in Ratten. Liebigs Ann. Chem. 713, 399, 1968

F.KORTE, W.KLEIN, I.WEISGERBER, R.KAUL, A.SCHALLAH, H.ITOKAWA, W.F.MUELLER, Z.PARLAR  
Metabolizam insekticides obelezenih sa <sup>14</sup>C kod toplokrvnih organizama biljaka. Hrana i Ishrana XI 1-2, 1970

W.F.MUELLER  
Ueberregionale Verteilung schaedlicher Substancen. Umwelt Report 326, 1972, Umschau Verlag, Frankfurt

W.F.MUELLER  
Zur Methylierung von Quecksilber. Vom Wasser, Jahrbuch fuer Wasserchemie und Wasserreinigungstechnik, 257, 1972

W.F.MUELLER, F.KORTE  
Identification of Pesticide Conversion products by Gas Chromatography - Mass Spectrometry, Proceedings of the International. Symposium on Gas Chromatography - Mass Spectrometry - Milano: Tamburini Editore 251, 1972

W.F.MUELLER, H. GEYER, F.KORTE  
Untersuchung ueber die Methyl- und Gesamtquecksilberkontamination von Fischen aus einem sueddeutschen Fluss. Chemosphere 1, 19-24, 1974

M.J.IATROPOULOS, A.MILLING, W.F.MUELLER, G.NOHYNEK, K.ROZMAN, F.COULSTON  
Absorption, Transport and Organotropism of Dichlorobiphenyl, Dieldrin, and Hexachlorobenzene in Rats. Environmental Research 10, 384-389, 1975

W.F.MUELLER, G.WOODS, F.KORTE, F.COULSTON  
Metabolism and Organ Distribution of Dieldrin-<sup>14</sup>C in Rhesus Monkeys after Single Oral and Intravenous Administration. Chemosphere 2, 93-98, 1975

W.F.MUELLER, G.NOHYNEK, G.WOODS, F.KORTE, F.COULSTON  
Comparative Metabolism of Dieldrin-<sup>14</sup>C in Mouse, Rat, Rabbit, Rhesus Monkeys and Chimpanzee. Chemosphere 2, 89-92, 1975

- K.ROZMAN, W.F.MUELLER, M.IATROPOULOS, F.COULSTON, F.KORTE  
Ausscheidung, Koerperverteilung und Metabolisierung von Hexachlorbenzol  
nach oraler Einzeldosis in Ratten und Rhesusaffen. Chemosphere 5, 289-298,  
1975
- W.F.MUELLER, F.KORTE  
Polychlorierte Biphenyle und Hexachlorbenzol in Umweltproben aus dem  
sueddeutschen Raum. Chemosphere 2, 95-100, 1976
- R.S.H.YANG, W.F.MUELLER, H.K.GRACE, L.GOLBERG, F.COULSTON  
Hexachlorobenzene Contamination in Laboratory Monkey Chow. Agric. Food  
Chem. 24/3, 563-565, 1976
- K.ROZMAN, W.F.MUELLER, F.COULSTON, F.KORTE  
Long-Term Feeding Study of Hexachlorobenzene in Rhesus Monkeys.  
Chemosphere 6, No.2/3, 81-84, 1977
- M.SCHWENK, A.F.HOFMAN, W.F.MUELLER, H.GREIM  
Conjugation and Elimination of Lithocholate in the Chimpanzee. Naunyn  
Schmiedeberg's Arch.Pharmacol. 297, 82, R21, 1977
- D.R.ROURKE, W.F.MUELLER, R.S.H.YANG  
Identification of Hexachlorobenzene as a Contaminant in Laboratory Plastic  
Wash Bottles. J.A.O.A.C. Vol.60, No.1, 233-235, 1977
- G.R.FELT, W.F.MUELLER, M.J.IATROPOULOS, F.COULSTON, F.KORTE  
Chronic Toxicity of 2,5,4'-Trichlorobiphenyl in Young Rhesus Monkeys - I. Body  
Distribution, Elimination and Metabolism. Toxicol.Appl.Pharmacology 41,  
619-627, 1977
- M.METZLER, W.F.MUELLER, W.C.HOBSON  
Biotransformation of Diethylstilbestrol in the Rhesus Monkey and Chimpanzee.  
Toxicol. and Environm. Health 3, 439-450, 1977
- W.F.MUELLER  
International Center of Environmental Safety - Primatenzentrum Alamogordo -  
GSF Information 2, 1977
- K.ROZMAN, W.F.MUELLER, F.COULSTON, F.KORTE  
Long-Term Feeding Study of Hexachlorobenzene in Rhesus Monkeys. (Abstract)  
- Toxicol. Appl. Pharmacology 41, 217, 1977
- L.D.LOOSE, J.B.SILKWORTH, K.A.PITTMAN, K.F.BENITZ, W.F.MUELLER  
Impaired Host Resistance to Endotoxin and Malaria in Polychlorinated Biphenyl-  
and Hexachlorobenzene Treated Mice. Infection and Immunity, 30-35, April

1978

- G.R.FELT, W.F.MUELLER, M.J.IATROPOULOS, F.COULSTON, F.KORTE  
Comparison of the Kinetics, Body Distribution and Metabolism in the Rat and Rhesus Monkey of Low to Moderately Chlorinated Biphenyls. (Abstract) - Toxicol. Appl. Pharmacology 45, 1, 283, 1978
- K.ROZMAN, W.F.MUELLER, F.COULSTON, F.KORTE  
Metabolism and Body Distribution of Pentachlorobenzene after Single Oral Dose in Rhesus Monkeys. (Abstract) - Toxicol. Appl. Pharmacology 45, 1 283, 1978
- W.KOEGEL, M.J.IATROPOULOS, W.F.MUELLER, F.COULSTON, F.KORTE  
Metabolism, Body Distribution, and Histopathology of Pentachloronitrobenzene in Rhesus Monkeys (Abstract) - Toxicol. Appl. Pharmacology, 45, 1, 283, 1978
- W.F.MUELLER, M.J.IATROPOULOS, K.ROZMAN, F.KORTE, F.COULSTON  
Comparative Kinetic, Metabolic and Histopathologic Effects of Chlorinated Hydrocarbon Pesticides in Rhesus Monkeys. (Abstract) - Toxicol.Appl.Pharmacology 45, 1, 283-284, 1978
- M.J.IATROPOULOS, G.R.FELT, W.F.MUELLER, F.KORTE, F.COULSTON  
Morphologic Effects of 2,5,4'-Trichlorobiphenyl and 2,4,6,2',4'-Pentachlorobiphenyl in Rhesus Monkeys. (Abstract) - Toxicol. Appl. Pharmacology 45, 1, 338, 1978
- W.F.MUELLER, W.HOBSON, G.B.FULLER, V.KNAUF, F.COULSTON, F.KORTE  
Endocrine Effects of Chlorinated Hydrocarbons in Rhesus Monkeys. Ecotox. Env. Safety 2, 161-172, 1978
- L.D.LOOSE, K.A.PITTMAN, K.F.BENITZ, J.B.SILKWORTH, W.F.MUELLER, F.COULSTON  
Environmental Chemical-Induced Immune Dysfunction. Ecotox. Env. Safety 2, 173-198, 1978
- W.F.MUELLER, I.SCHEUNERT, K.ROZMAN, W.KOEGEL, D.FREITAG E.RICHTER, F.COULSTON, F.KORTE  
Comparative Metabolism of Hexachlorobenzene and Pentachloro- nitrobenzene in Plants, Rats, and Rhesus Monkeys. Ecotox. Env. Safety 2, 2/3, 437-445, 1978
- W.G.HOBSON, G.B.FULLER, W.F.MUELLER, F.KORTE, F.COULSTON  
The Reproductive Endocrine System of Nonhuman Primates. A Model for Prediction of Toxicity. Ecotox. Env. Safety 2, 2/3, 257-266, 1978
- A.MILLING, W.F.MUELLER, F.COULSTON, F.KORTE

Comparative Metabolism of 2,2'-Dichlorobiphenyl-<sup>14</sup>C in Mice, Rats, and Rhesus Monkeys after Single Oral Application. *Chemosphere* 1, 21-24, 1979

W.F.MUELLER, T.MCMURRAY, F.COULSTON, F.KORTE  
Uptake, Metabolism and Excretion of Chloralkylene-9 <sup>14</sup>C by Rhesus Monkeys after Single Oral Administration. *Chemosphere* 1, 21-24, 1979

W.KOEGEL, W.F.MUELLER, F.COULSTON, F.KORTE  
Uptake, Body Distribution, Storage, and Excretion of Pentachloronitrobenzene-<sup>14</sup>C in Rhesus Monkeys. *Chemosphere* 2, 89-95, 1979

W.KOEGEL, W.F.MUELLER, F.COULSTON, F.KORTE  
Biotransformation of Pentachloronitrobenzene-<sup>14</sup>C in Rhesus Monkeys after Single and Chronic Oral Administration. *Chemosphere* 2, 97-105, 1979

W.F.MUELLER  
Oekologisch-toxikologische Effekte von Fremdstoffen in Nicht-Menschlichen Primaten und anderen Labortieren. *GSF Information Oe* 486, 1979

K.ROZMAN, J.WILLIAMS, W.F.MUELLER, F.COULSTON, F.KORTE  
Metabolism and Pharmacokinetics of Pentachlorobenzene in the Rhesus Monkey. *Bull. Environm. Contam. Toxicol.* 22, 1/2, 1979

L.BALLHORN, W.F.MUELLER, F.KORTE  
Mass Spectrometry and Stability of t-Butyldimethylsilyethers of some Estrogens and Androstanes. *Steroids* 33, 4, 379-388, 1979

G.R.FELT, W.F.MUELLER, F.COULSTON, F.KORTE  
Distribution and Excretion of 2,2',4,4',6-Pentachloro- biphenyl in the Rat. *Bull. Environm. Cont. Toxicol.* 22, 582-585, 1979

G.J.NOHYNEK, W.F.MUELLER, F.COULSTON, F.KORTE  
Metabolism, Excretion, and Tissue Distribution of <sup>14</sup>C-Photodieldrin in Non-Human Primates Following Oral Administration. *Ecotox. Environm. Safety* 3, 1, 1-9, 1979

P.CONRADT, W.F.MUELLER, L.LOOSE, W.KLEIN, F.COULSTON, F.KORTE  
Incorporation of <sup>3</sup>H-Uridine into RNA under the Influence of Dieldrin and Polychlorinated Biphenyls. *Ecotox. Environ. Safety* 3, 10-17, 1979

W.F.MUELLER, G.NOHYNEK, F.COULSTON, F.KORTE  
Aufnahme, Verteilung, Umwandlung und Ausscheidung von Dieldrin in Nicht-Menschlichen Primaten und anderen Labortieren. *Zeitschr.f.Naturforschung* 34c, 340-345, 1979

- L.D.LOOSE, J.B.SILKWORTH, S.P.MUDZINSKI, K.A.PITTMAN K.F.BENITZ,  
W.F.MUELLER  
Modification of the Immune Response by Organochlorine Xenobiotics. Drug and  
Chemical Toxicology 2 (1&2), 111-132, 1979
- W. KOEGEL, W.F.MUELLER, F.COULSTON, F.KORTE  
Fate and Effects of Pentachloronitrobenzene in Rhesus Monkeys. Agric. Food  
Chem. 27, 1181, 1979
- J.BAILEY, V.KNAUF, W.F.MUELLER, W.HOBSON  
Transfer of Hexachlorobenzene and Polychlorinated Biphenyls to Nursing Infant  
Rhesus Monkeys: Enhanced Toxicity. Environm. Res. 21, 190-196, 1980
- G.B.FULLER, V.KNAUF, W.F.MUELLER, W.C.HOBSON  
PCB Augments LH-Induced Progesterone Synthesis. Bull. Environm. Contam.  
Toxicol. 25, 65-68, 1980
- W.F.MUELLER, I.Y.ROSENBLUM, B.BILLHYMER  
The Time Course of Elevation of Glycohemoglobins in Diabetic Rhesus  
Monkeys. Diabetes 29, 2, 1980
- W.F.MUELLER, F.COULSTON, F.KORTE  
Comparative Metabolism of <sup>14</sup>C-Trichloroethylene in Chimpanzees, Baboons,  
and Rhesus Monkeys. Chemosphere 11, 2, 215-218, 1982
- W.F.MUELLER, F.COULSTON, F.KORTE  
Comparative Metabolism of 2-Nitropropane in Rats and Chimpanzees.  
Chemosphere 12, 2, 231-237, 1983
- D.BATZER, W.F.MUELLER, F.COULSTON, F.KORTE  
Elektrophysiologische Studien an mit Hexachlorbenzol, 2,4,6,2',4'-Pentachlor-  
biphenyl und Pentachlornitrobenzol gefuetterten Rhesusaffen. Ecotox. Env.  
Safety
- E.HELTON, J.A.WESTLAND, W.C.HOBSON, W.F.MUELLER  
Placental Transfer of Pentachlorophenol in Rhesus Monkeys. Ecotox. Env.  
Safety
- W.F.MUELLER, F.COULSTON, F.KORTE  
The Role of the Chimpanzee in the Evaluation of the Risk of Foreign Chemicals  
to Man. Regul. Toxicol. Pharmacol. 5/2, 182-189, 1985
- N.NANN, W.F.MUELLER, W.C.WEIMER  
Disposition of Benz(a)acridine in the Rat. Toxicologist Vol. 9, No.1, p.24, 1989

J.J.COFFEY, W.F.MUELLER, L.W.SMITH

Body Distribution, Biotransformation and Excretion of 4-Nitro-N-Methyl Phthalimide (4-NPI) in Rats. Toxicologist Vol.9 No.1, p.87, 1989

W.F. MUELLER, G.W. BEDELL, P.J. JACKSON

Bioremediation of High Explosives by Higher Plants. Proceedings, 1992 Summer National Meeting, American Institute of Chemical Engineers, Minneapolis, MN, August 1992

R.E.ESTELL, E.L.FREDERICKSON, D.M.ANDERSON, W.F.MUELLER, M.D.REMMENGA

Relationship of tarbush leaf surface secondary chemistry to livestock herbivory. J.Range Manage. 47:424-428, 1994

S.SHOJAEI, W.F.MUELLER, H.KOC, J.HUBSTENBERGER

Bioremediation of TNT by Cell Suspensions. Int. J.of Env. Consc. Design & Manuf. 7(1): 37-42, 1998

B.J. KELMAN, L.J. SWENSON, L.V. UPPALA, J.M.COHEN, J.R. MILLETTE, W.F.MUELLER

Chemical Components of Shredded Paper Insulation: A Preliminary Study. Appl. Occup. Env. Hygiene 14: 192-197, 1999

M.E.LUCERO, W.MUELLER, J.HUBSTENBERGER, G.C.PHILLIPS, M.A.O'CONNELL

Tolerance to Nitrogenous Explosives and Metabolism of TNT by Cell Suspensions of *Datura Innoxia*. In Vitro Cell.Biol.-Plant 35: 480-486, 1999

## PRESENTATIONS

W.F.MUELLER

Zur Methylierung von Quecksilber. Jahrestagung der Fachgruppe Wasserchemie, Gesellschaft Deutscher Chemiker, Marburg, Germany, May 8-11,1972

W.F.MUELLER, F.KORTE

Identification of Pesticide Conversion Products by Gas Chromatography - Mass Spectrometry. International Symposium on Gas Chromatography - Mass Spectrometry, Porto Ferrario, Italy, May 17-19,1972

F.KORTE, W.F.MUELLER, W.KLEIN

Analytical Problems and Advances in the Study of the Fate of Environmental Chemicals. Halifax Symposium, Athens, GA, May 14-16,1973

W.F.MUELLER

Metabolism of Environmental Chemicals in Non-Human Primates and other Laboratory Animals. New Mexico State University, Las Cruces, N.M., Department of Chemistry, October 1973

W.F.MUELLER

Methods of Instrumental Analysis used in Studies of Xenobiotic Metabolism . Albany Medical College, Center of Experimental Pathology and Toxicology, Albany, N.Y., March 1974

R.S.H.YANG, W.F.MUELLER, L.GOLBERG, F.COULSTON

Laboratory Sources of Hexachlorobenzene Contamination. 15th Annual Meeting of the Society of Toxicology, Atlanta, GA, March 1976

K.ROZMAN, W.F.MUELLER, F.COULSTON, F.KORTE

Long-Term Feeding Study of Hexachlorobenzene in Rhesus Monkeys . 16th Annual Meeting of the Society of Toxicology, Toronto, Canada, March 1977

W.F.MUELLER

Endocrine Effects of Chlorinated Hydrocarbons in Rhesus Monkeys. 5th International Symposium "Chemical and Toxicological Aspects of Environmental Quality", Munich, Germany, September 1977

W.F.MUELLER, M.J.IATROPOULOS, K.ROZMAN, F.COULSTON, F.KORTE

Comparative Kinetic, Metabolic and Histopathologic Effects of Chlorinated Hydrocarbon Pesticides in Rhesus Monkeys. 17th Annual Meeting of the Society of Toxicology, San Francisco, CA, March 1978

K.ROZMAN, W.F.MUELLER, F.COULSTON, F.KORTE

Metabolism and Body Distribution of Pentachlorobenzene after Single Oral Dose in Rhesus Monkeys. 17th Annual Meeting of the Society of Toxicology, San Francisco, CA March 1978

W.KOEGEL, M.J.IATROPOULOS, W.F.MUELLER, F.COULSTON, F.KORTE

Metabolism, Body Distribution and Histopathology of Pentachloro-nitrobenzene in Rhesus Monkeys. 17th Annual Meeting of the Society of Toxicology, San Francisco, CA March 1978

M.J.IATROPOULOS, G.R.FELT, W.F.MUELLER, F.KORTE, F.COULSTON

Morphologic Effects of 2,5,4'-Trichlorobiphenyl and 2,4,6,2',4'-Pentachlorobiphenyl in Rhesus Monkeys. 17th Annual Meeting of the Society of Toxicology, San Francisco, CA, March 1978

W.F.MUELLER

Umweltschutz - ein Weltproblem. University of New Mexico, German Summer School, Taos, NM, June 1978

W.F.MUELLER

Comparative Metabolism of Hexachlorobenzene and Pentachloronitrobenzene in Plants, Rats, and Rhesus Monkeys. International Symposium "Scientific Basis for the Ecotoxicological Assessment of Environmental Chemicals", Vienna, Austria, August 1978

K.ROZMAN, W.F.MUELLER, F.COULSTON, F.KORTE

The Involvement of the Lymphatic System in the Absorption, Transport and Excretion of Hexachlorobenzene in Rats and Rhesus Monkeys. 18th Annual Meeting of the Society of Toxicology, New Orleans, LA, March 1979

W.F.MUELLER

Vergleichender Metabolismus von Organohalogenverbindungen. Symposium: "Umweltchemikalien", Arbeitsgemeinschaft der Grossforschungseinrichtungen, Bonn-Bad Godesberg, Germany, October 1979

I.Y.ROSENBLUM, B.BILLHYMER, W.F.MUELLER

The Time Course of Elevation of Glycosylated Hemoglobins in Rhesus Monkeys Following the Chemical Induction of Diabetes Mellitus. Annual Meeting of the American Society of Primatology, Winston-Salem, N.C, June 1980

W.F.MUELLER, I.Y.ROSENBLUM, B.BILLHYMER

The Time Course of Elevation of Glycohemoglobins in Diabetic Rhesus Monkeys. Annual Meeting of the American Diabetes Association, Washington, DC, June 1980

W.F.MUELLER

Modified Excretion Patterns of Environmental Chemicals in Non-Human Primates. Symposium on Procedures and Methods for the Ecotoxicological Assessment of Environmental Quality, Williamsburg, VA, June 1980

W.F.MUELLER

Metabolismus und kinetische Untersuchungen ausgewählter Chemikalien in Rhesusaffen und Schimpansen. Munich, Germany, November 1980

W.F.MUELLER

Fate and Effects of Environmental Chemicals in Non-Human Primates. XV.Congreso Latinoamericano De Quimica, San Jose, Costa Rica, February 1981

W.F.MUELLER, S.GAEB, F.KORTE

Abiotic Degradability of Environmental Chemicals. XV.Congreso Latin-  
americano De Quimica, San Jose, Costa Rica, February 1981

W.F.MUELLER, F. COULSTON, F.KORTE

The Role of the Chimpanzee in Drug Metabolism Studies. International  
Society for the Study of Xenobiotics, West Palm Beach, FL, November  
1983

W.F.MUELLER, F.COULSTON, F.KORTE

The Role of the Chimpanzee in the Evaluation of the Risk of Foreign  
Chemicals to Man. International Symposium "Bioavailability of  
Environmental Chemicals" Fraunhofer-Institut fuer Toxikologie und  
Aerosolforschung, Schmallenberg, Germany, September 1984

W.F.MUELLER, F.COULSTON, F.KORTE

Fate and Effects of Hexachlorobenzene in Non-Human Primates and  
other Laboratory Animals. International Symposium on  
Hexachlorobenzene, Intern. Academy for Research on Cancer, Lyon,  
France, June 1985

N.NANN, W.F.MUELLER, W.C.WEIMER

Disposition of Benz(a)acridine in the Rat. 28th Annual Meeting, Society of  
Toxicology, Atlanta, GA, March 1989

J.J.COFFEY, W.F.MUELLER, L.W.SMITH

Body Distribution, Biotransformation and Excretion of 4-Nitro-N-methyl-  
Phthalimide (4-NPI) in Rats. 28th Annual Meeting, Soc. of Toxicol.,  
Atlanta, GA, 1989

W.F.MUELLER, G.W.BEDELL, P.J.JACKSON

Bioremediation of High Explosives by Higher Plants. 1992 Summer  
National Meeting, American Institute of Chemical Engineers, Minneapolis,  
MN, August 1992