

CURRICULUM VITAE
of
CHARLES PETER GERBA

EDUCATION AND DEGREES

Arizona State University, Tempe, Arizona B. S., Microbiology	June 1969
University of Miami, Coral Gables, Florida Ph.D., Microbiology	January 1973

POSITIONS

Postdoctoral Fellow, Department of Virology and Epidemiology, Baylor College of Medicine, Houston, Texas 77030	1973
Assistant Professor of Environmental Virology, Department of Virology and Epidemiology, Baylor College of Medicine, Houston, Texas 77030	
Adjunct Assistant Professor of Environmental Health, University of Texas School of Public Health, Houston, Texas 77030	1976-1983
Associate Professor and Professor, Department of Nutrition and Food Science and University Department of Microbiology and Immunology, University of Arizona, Tucson, Arizona 85721	1981-1990
Professor, Department of Soil, Water and Environmental Science The University of Arizona, Tucson, Arizona Phone (602) 621-6906	1990-
Adjunct Professor, Department of Nutritional Sciences The University of Arizona, Tucson, Arizona	1990-
Adjunct Professor, Department of Microbiology and Immunology, The University of Arizona, Tucson, Arizona	1993-2005
Adjunct Professor, Division of Epidemiology and Biostatistics, The University of Arizona, Tucson, Arizona	2000-
Adjunct Professor, Division of Environmental Health, Then University of Arizona, Tucson, Arizona	2010-

HONORS

Beta Beta Beta (biology scholastic honorary)
Epsilon Tau Lambda (adult scholastic honorary: University of Miami) 1969-1972
National Institutes of Health Postdoctoral Traineeship 1973
Fellow, American Academy of Microbiology 1993
Waksman Lectureship Fellow, American Society for Microbiology 2005-2007
Fellow, American Association for the Advancement of Science 2009
Fellow, International Water Association 2010

Listed in Who's Who in Technology Today, 1984, 1986, 1989, eds.
Listed in International Who's Who in American Education, 1992-1993, 1995, 1996-1997, eds.
Listed in Who's Who in the West, 1987-present
Listed in Who's Who in Emerging Leaders in America, 1989-1990, 1991-1992, eds.
Listed in Who's Who in the World, 1989-1995-present
Listed in American Men & Women of Science, 1992-1993, 1996-1997-present
Listed in Who's Who in Science and Engineering, 1992-1993, 1996-1997, eds.
Listed in Who's Who in America, 1994 - present
Listed in Who's Who in Medicine and Healthcare, 1997-1998-present

AWARDS

Outstanding Research Scientist Award, College of Agriculture, The University of Arizona 1984
Environmental Science and Engineering Fellow, American Association for the Advancement of Science 1984
Tribute of Appreciation, Criteria and Standards Division, Office of Drinking Water, U.S. Environmental Protection Agency 1984
Service Award for Public Health, Pima County Health Department 1984
Outstanding Team Research Award, College of Agriculture, The University of Arizona 1992
Co-Recipient of Mckee Award (for outstanding contribution to groundwater protection), Water Environmental Federation
Recipient of the A.P. Black Research Award for outstanding contributions 1996
to Water Science, American Water Works Association Honorary Lifetime Membership Award for dedicated service to the water treatment industry, Water Quality Association 1997
Award of Excellence in Environmental Health for outstanding and innovative research program, The National Association of Country and City Health Officials 1998
Selected as one of the 21 most influential people in the water industry in the 21st century by Water Technology Magazine 2000
Best Paper Published in the Journal of the American Water Works Association, Water Resources
Best Paper Published in the Journal of the American Water Works Association.
Water Science and Research Division 2005
Shah Distinguished Lectureship in Risk Assessment, Stanford University 2005
Quentin Mees Research Award for outstanding research in applied water science
Arizona Water Pollution Control Association 2007

PROFESSIONAL ORGANIZATIONS

American Society for Microbiology

American Association for the Advancement of Science
 Sigma Xi
 International Water Association
 American Water Works Association
 Society for Applied Microbiology
 Society for Risk Analysis
 International Association for Food Protection

ELECTED POSITIONS IN PROFESSIONAL ORGANIZATIONS

Chairman-elect and Chairman, Applied and Environmental Division of the American Society for Microbiology	1982-1984
President-elect and President, Arizona Branch of the American Society for Microbiology	1983-1984
Councilor, Arizona Branch of the American Society for Microbiology	1985-1986
Chairman-elect and Chairman, Applied and Environmental Division of the American Society for Microbiology	1986-1988

EDITORIAL BOARD MEMBERSHIPS

Applied and Environmental Microbiology	1979-1985
CRC Critical Reviews in Environmental Control	1984-
Journal of Food Protection	1984-1990
Journal of Industrial Microbiology	1986-1989
Journal of Applied Microbiology	2000-2005
Letters in Applied Microbiology	2000-2005
Regional Editor – Journal of Water and Health	2002-2010
Reviews in Environmental Toxicology and Contamination	2006-
Food and Environmental Virology	2008-

PROFESSIONALLY RELATED PUBLIC SERVICE

Member - U. S. Environmental Protection Agency Work- shop on "Protocol Development: Criteria and Standards for Potable Reuse and Feasible Alterna- tives", Committee on Groundwater Criteria	1980
Member - U.S. Environmental Protection Agency Work- shop on "Monitoring for Viruses in the Environment"	1980
Member - U.S. Environmental Protection Agency Work- shop on "Microbial Contaminants in Drinking Water"	1981
Member - U.S. Environmental Protection Agency Work- shop on "Land Application of Municipal Wastewater and Sludge", Denver	1983
Member - University Technical Advisory Committee to the Pima County Board of Health	1982-1984
Member - Demonstration Recharge Advisory Committee, Tucson Water, City of Tucson	1984-1987
Member - Technical Advisory Board to the Pima County Water Hyacinth Wastewater Treatment Project	1984

Member - U.S. Environmental Protection Agency, Office of Drinking Water, Workshop on Revised Drinking Water Regulations	1985
Member - Task Force for Microbiological Water Purifier Guide Standards and Testing, Office of Drinking Water, U.S. Environmental Protection Agency	
Member - Pima County Board of Health	1986-1992
Member - Grant Review Panel, Office of Research and Development, U.S. Environmental Protection Agency	1986-1988
Member - Drinking Water Committee, Science Advisory Board, U.S. Environmental Protection Agency	
Member - Task Group on Copper/Silver Ion Generators, National Sanitation Foundation	1989-1991
Member - Technical Advisory Committee, Soil Aquifer Treatment Facility, Santa Ana Watershed Project Authority	1990-1992
Member Ad Hoc - FIFRA Scientific Advisory Panel, Antimicrobial Test Methodology, Office of Pesticides, U.S.	1991-1997
Member - Task Group on Drinking Water Treatment Units for Bacteriostatic Testing and Cyst Reduction, National Sanitation Foundation	1991
Member - "Workshop on Drinking Water and Health in the Year 2000", U.S. Environmental Protection Agency and American Water Works Research Foundation	1991
Member - "Workshop on Virology for the Water Supply in the Nineties", National Institute of Public Health and Environmental Protection, The Netherlands	1991
Member - "Expert Panel on Hazards of Municipal Solid Waste Recycling," U.S. Environmental Protection Agency	1991-1992
Member - "Workshop of Research Needs in Drinking Water Microbiology", American Water Works Foundation	1992
Member - "Workshop on the Methodology for Deriving National Water Ambient Water Quality Criteria for the Protection of Human Health", U. S. Environmental Protection Agency, Office of Science and Technology	1992
Member - "Blue Ribbon Panel on Research needs for Ultraviolet Disinfection", State of California, Dept. of Health Services	1993
Member - "Blue Ribbon Panel on Assessment and Acceptability of Risk", State of Calif., Dept. of Health Services.	1993
Member - Workshop on "Research Needs in Microbial Risk Assessment", National Institute of Public Health and Environmental Protection, The Netherlands	1992
Chairman - Microbiology Working Group "Workshop for Revision of National Guidelines for Deriving Human Health Criteria for Surface Water", U.S. Environmental Protection Agency	1992
Member - Technical Advisory Committee, Water Campus Wastewater Reuse Project, City of Scottsdale	1992-1994
Member - Science Advisory Board, Committee on Drinking Water and Committee on Research Strategies, U.S. Environmental Protection Agency	1994-1999
Member - Working Group on Microbial Risk Assessment, International Life Science Institute and U.S. Environmental Protection Agency	1995-
Member - Project Advisory Committee, UV Disinfection of Groundwater, American Water Works	

Research Foundation	1994-1996
Member - Project Advisory Committee National Survey of Viruses in Groundwater, American Water Works Association Research Foundation	1995-1999
Member - Working Group on Microbial Risk Assessment. International Life Science Institute, and the United States Environmental Protection Agency	1996-2000
Member - Workshop on Managing Microbial Risks of Potable Water in Space NASA	1997
Member - Workshop on New Microbial Indicators for Water, U.S. Environmental Protection Agency	1998
Member - Workshop on Water and Food Pathogen Risk Assessment, U.S. Environmental Protection Agency, and the International Life Science Institute	1999
Member - Workshop on Groundwater Indicator Evaluation, U.S. Environmental Protection Agency	1999
Member - Early Warning Monitoring to Detect Hazardous Events in Water Supply Systems U.S. Geological Survey, U.S. Environmental Protection Agency, Dept. of Defense	1999
Member – Susceptibility and Microbial Risk Assessment Workshop G.W. University and the Environmental Protection Agency	1999
Member - Mars Sample Handling Workshop, NASA	2000
Member – Research Needs for On-Site Wastewater Treatment Systems Workshop, U. S. Environmental Protection Agency	2001
Member – Recreational Water Quality Standards for Tropical Waters Workshop, U. S. Environmental Protection Agency	2001
Member – Research Needs for Biosolids and Animal Wastes, U.S. Department of Agriculture and U. S. Environmental Protection Agency	2001
Member –Workshop on Indicators for Pathogens in Wastewater, Biosolids and Stormwater, Water Environment Research Foundation	2003
Member – Expert Panel to Review Centers for Disease Control Environmental Microbiology Program	2005
Member – Selecting Criteria for the Candidate Contaminate List, U. S. Environmental Protection Agency	2006
Member – Food Advisory Committee, U. S. Food and Drug Administration	2010

SERVICE TO THE PROFESSION

Rapporteur - International Conference on Viruses in Water, Mexico City	1974
Vice-Chairman - Workshop on "Viral Pollution in the Environment", Fourth International Congress for Virology, The Hague, Netherlands	
Member - American Society for Testing Material, subsection committee on standard methods for detecting virus on solids and soils	
Member - American Society for Testing Material, subsection committee on standard methods for detecting viruses in fresh and marine waters	1978
Subcommittee on Virological Methods, "Examination of Seawater and Shellfish", pub- lished by the American Public Health Association	
Chairman - Workshop on "Ecology of Viruses in Water", Second International Symposium on Micro- bial Ecology, University of Warwick, England	
Session Chairman - "Distribution and Development of Pathogens", Second International Symposium on Microbial Ecology, University of Warwick, England	
Session Chairman - International Conference on Viruses and Wastewater Treatment, University of Surrey, England	1980
Co-Chairman - Workshop on "Environmental Aspects of Viral Hepatitis Transmission", International Symposium on Viral Hepatitis, New York	
Member - Session Committee, Institute of Food Technologists	1982
Member - Committee on Environmental Microbiology, American Society for Microbiology	1981-1983
Member - Microbial Problems in Drinking Water Committee, American Water Works Association	
Co-Chairman - Round Table - Fate of Genetically Engineered Organisms in the Environment, American Society for Microbiology, Las Vegas	
Senior Delegate - U.S. Committee of the Inter- national Association for Water Pollution Control and Research for the American Society for Microbiology	1985-1991
Member - Planning Committee for Symposium on "Microbial Aspects of Surface Water Quality", Water Pollution Control Federation.	1988-1989

Co-Chairman - Organizing Committee of the 2nd International Symposium on Contamination of the Environment by Viruses and Methods of Control. Vienna, Austria	1987-1989
Chairman - Enteric Virus Committee, Joint Editorial Board, 17th edition supplement and 18th edition, Standard Methods for the Examination of Water and Wastewater	1989-1997
Member - Project Advisory Committee, National Groundwater Virus Survey, American Water Works Research Foundation	1991-2000
Member - Research Committee, American Water Works Association	1992-1994
Member - Workshop on "Microbial and Disinfection By-products Research Needs", American Water Works Research Foundation	1993
Member - International Scientific Committee, "Assessing and Managing Health Risks from Drinking Water Contamination: Approaches and Application".	1993-1994
Member - Organizing Committee, "Second International Symposium on Wastewater Reclamation and Reuse"	1993-1995
Member - Organizing Committee "Global Issues in Microbiological Water Quality for the next Century". Sponsored by UNESCO, U.S. Environmental Protection Agency, and the American Academy for Microbiology	1994-1995
Member - American Soc. for Microbiology delegate. United States National Committee of the International Water Quality Association (now International Water Association)	1992-1999
Member - Public and Scientific Committee of the American Soc. Microbiology	1996-2006
Member- Organizing committee for Workshop on Acceptable Microbial Risks in Water, American Academy for Microbiology	2006
Member – Workshop on Select Criteria for Drinking Water Candidate Contaminate List, Office of Water, United States Environmental Protection Agency	2006
Member – Scientific Review of the Proposed Risk Assessment Bulletin from the Office of Management and Budget, National Research Council	2006

DOCTORAL DISSERTATION

Gerba, C.P. 1973. Investigations into the effects of particulate matter on the survival of a virus in seawater, University of Miami.

PUBLICATIONS

BOOKS (11)

Gerba, C.P., and S.M. Goyal (eds.). 1982. *Methods in Environmental Virology*. Marcel-Dekker, Inc., NY.

Bitton, G., and C.P. Gerba (eds.). 1984. *Groundwater Pollution Microbiology*. John Wiley and Sons, NY.

Goyal, S.M., C.P. Gerba, and G. Bitton. 1987. *Phage Ecology*. John Wiley and Sons, N.Y.

Pepper, I.L., C.P. Gerba, and J.W. Bredecke. 1995. *Environmental Microbiology - A Laboratory Manual*. Academic Press, NY.

Pepper, I.L., C.P. Gerba, and M.L. Brusseau. 1996. *Pollution Science*. Academic Press, San Diego, CA.

Haas, C.N., J.B. Rose, and C.P. Gerba. 1999. *Quantitative Microbial Risk Assessment*. John Wiley, NY.

Maier, R.M., I.L. Pepper and C.P. Gerba. 2000. *Environmental Microbiology*. Academic Press, NY.

Pepper, I.L., C.P. Gerba, and J.W. Bredecke. 2004. *Environmental Microbiology - A Laboratory Manual*. Second Edition. Academic Press, San Diego.

Pepper, I. L., C. P. Gerba and M. L. Brusseau. 2006. *Environmental and Pollution Science*, Second Edition. Academic Press, San Diego.

Maier, R.M., I.L. Pepper and C.P. Gerba. 2008. *Environmental Microbiology*. Second Edition. Academic Press, NY.

PEER REVIEWED JOURNAL ARTICLES (337)

Gerba, C.P., and G.E. Schaiberger. 1973. Biscayne Bay: bacteriological data interpretation. *Flor. Sci.* 36:104-109

Gerba, C.P., and G.E. Schaiberger. 1975. Effect of particulates on the survival of virus in seawater. *J. Water Pollut. Contr. Fed.* 47:93-103.

Gerba, C.P., and G.E. Schaiberger. 1975. Aggregation as a factor in loss of viral titer in seawater. *Water Res.* 9:567-571.

- Gerba, C.P., C. Wallis, and J.L. Melnick. 1975. Microbial hazards of household toilets. Droplet production and the fate of residual organisms. *Appl. Microbiol.* 30:229-237.
- Gerba, C.P., C. Wallis, and J.L. Melnick. 1975. The fate of wastewater bacteria and viruses in soil. *Jr. Irrig. Drain. Div. ASCE* 101:157-174.
- Gerba, C.P., M.D. Sobsey, C. Wallis, and J.L. Melnick. 1975. Factors influencing the adsorption of poliovirus onto activated carbon in wastewater. *Environ. Sci. Technol.* 9:727-731.
- Gerba, C.P., C. Wallis, and J.L. Melnick. 1975. Viruses in water: the problem, some solutions. *Environ. Sci. Technol.* 9:1122-1126.
- Farrah, S.R., C.P. Gerba, C. Wallis, and J.L. Melnick. 1976. Concentration of viruses from large volumes of tap water using pleated membrane filters. *Appl. Environ. Microbiol.* 31:221-226.
- Gilbert, R.G., R.C. Rice, H. Bouwer, C.P. Gerba, C. Wallis, and J.L. Melnick. 1976. Wastewater renovation and reuse: virus removal by soil filtration. *Science* 192:1004-1005.
- Gerba, C.P., and J.S. McLeod. 1976. Effect of sediments on the survival of *Escherichia coli* in marine waters. *Appl. Environ. Microbiol.* 32:114-120.
- Gilbert, R.G., C.P. Gerba, R.C. Rice, H. Bouwer, C. Wallis, and J.L. Melnick. 1976. Virus and bacteria removal from wastewater by land treatment. *Appl. Environ. Microbiol.* 32:333-338.
- Farrah, S.R., S.M. Goyal, C.P. Gerba, C. Wallis, and P.T.B. Shaffer. 1976. Characteristics of humic acid and organic compounds concentrated from tapwater using the Aquella virus concentrator. *Water Res.* 10:897-901.
- Payment, P., C.P. Gerba, C. Wallis, and J.L. Melnick. 1976. Methods for concentrating viruses from large volumes of estuarine water on pleated membrane filters. *Water Res.* 10:893-896.
- Lance, J.C., C.P. Gerba, and J.L. Melnick. 1976. Virus movement in soil columns flooded with secondary sewage effluent. *Appl. Environ. Microbiol.* 32:520-526.
- Lance, J.C., and C.P. Gerba. 1977. Nitrogen, phosphate and virus removal from sewage water during land filtration. *Prog. Water Technol.* 9:157-166.
- Farrah, S.R., C.P. Gerba, S.M. Goyal, C. Wallis, and J.L. Melnick. 1977. Regeneration of pleated filters used to concentrate enteroviruses from large volumes of tap water. *Appl. Environ. Microbiol.* 33:308-311.
- Gerba, C.P., C. Wallis, and J.L. Melnick. 1977. Disinfection of wastewater by photodynamic oxidation. *J. Water Pollut. Contr. Fed.* 49:575-583.

- Hobbs, M.F., C.P. Gerba, C. Wallis, J.L. Melnick, and J.S. Lennon. 1977. Photodynamic inactivation of infectious agents. *J. Environ. Eng. Div. ASCE* 103:459-472.
- Sobsey, M.D., C.P. Gerba, C. Wallis, and J.L. Melnick. 1977. Concentration of enteroviruses from large volumes of turbid estuary water. *Can. J. Microbiol.* 23:770-778.
- Farrah, S.R., S.M. Goyal, C.P. Gerba, C. Wallis, and J.F. Melnick. 1977. Concentration of enteroviruses from estuarine water. *Appl. Environ. Microbiol.* 33:1192-1196.
- Gerba, C.P., S.M. Goyal, E.M. Smith, and J.L. Melnick. 1977. Distribution of viral and bacterial pathogens in a coastal canal community. *Marine Pollut. Bull.* 8:279-282.
- Gerba, C.P., E.M. Smith, and J.L. Melnick. 1977. Development of a quantitative method for detecting enteroviruses in estuarine sediments. *Appl. Environ. Microbiol.* 34:158-163.
- Goyal, S.M., C.P. Gerba, and J.L. Melnick. 1977. Occurrence and distribution of bacterial indicators and pathogens in canal communities along the Texas coast. *Appl. Environ. Microbiol.* 34:139-149.
- Gerba, C.P., C. Wallis, and J.L. Melnick. 1977. Application of photodynamic oxidation to the disinfection of tapwater, sea-water and sewage contaminated with poliovirus. *Photochem. Photobiol.* 26:499-504.
- Stagg, C.H., and C.P. Gerba. 1977. Cyanophage as an indicator of animal viruses in wastewater. (Discussion). *J. Water Pollut. Contr. Fed.* 49:1915-1916.
- Melnick, J.L., C.P. Gerba, and C. Wallis. 1977. Viruses in water: an increasing awareness of the problem and approaches to its solution. *J. Viestnik AMN, USSR (J. Acad. Med. Sci., USSR)* 6:70-75, (In Russian).
- Farrah, S.R., S.M. Goyal, C.P. Gerba, R.H. Conklin, C. Wallis, J.L. Melnick, and H.L. Dupont. 1978. A simple method for concentration of enteroviruses and rotaviruses from cell culture harvests using membrane filters. *Intervirology* 9:56-59.
- Gerba, C.P., S.R. Farrah, S.M. Goyal, C. Wallis, and J.L. Melnick. 1978. Concentration of enteroviruses from large volumes of tap water, treated sewage and seawater. *Appl. Environ. Microbiol.* 35:540-548.
- Farrah, S.R., S.M. Goyal, C.P. Gerba, R.H. Conklin, and E.M. Smith. 1978. Comparison between adsorption of poliovirus and rotavirus by aluminum hydroxide and activated sludge flocs. *Appl. Environ. Microbiol.* 35:360-363.
- Farrah, S.R., S.M. Goyal, C.P. Gerba, C. Wallis, and J.L. Melnick. 1978. Concentration of poliovirus from tapwater onto membrane filters with aluminum chloride at ambient pH levels. *Appl. Environ. Microbiol.* 35:624-626.

- Smith, E.M., C.P. Gerba, and J.L. Melnick. 1978. Role of sediment in the persistence of enteroviruses in the estuarine environment. *Appl. Environ. Microbiol.* 35:685-689.
- Stagg, C.H., C. Wallis, C.H. Ward, and C.P. Gerba. 1978. Chlorination of solids-associated coliphages. *Prog. Water Technol.* 10:381-387.
- Goyal, S.M., C.P. Gerba, and J.L. Melnick. 1978. Prevalence of human enteric virus in coastal canal communities. *J. Water Pollut. Contr. Fed.* 50:2247-2256.
- Farrah, S.R., S.M. Goyal, C.P. Gerba, V.K. Mahajan, C. Wallis, and J.L. Melnick. 1978. Concentration of humic acid from tap water. *Water Res.* 12:303-306.
- Hurst, C., S.R. Farrah, C.P. Gerba, and J.L. Melnick. 1978. Development of quantitative methods for the detection of enteroviruses in sewage sludges during activation and following land disposal. *Appl. Environ. Microbiol.* 36:81-89.
- Gerba, C.P., and J.C. Lance. 1978. Poliovirus removal from primary and secondary sewage by soil filtration. *Appl. Environ. Microbiol.* 36:247-251.
- Edmond, T.D., G.E. Schaiberger, and C.P. Gerba. 1978. Detection of enteroviruses near deep marine sewage outfalls. *Marine Pollut. Bull.* 9:246-249.
- Gerba, C.P., C.H. Stagg, and M.G. Abadie. 1978. Characterization of sewage solid-associated viruses and behavior in natural waters. *Water Res.* 12:805-812.
- Gerba, C.P., and S.M. Goyal. 1978. Detection and occurrence of enteric viruses in shellfish: a review. *J. Food Protect.* 41:743-754.
- Melnick J.L., C.P. Gerba, and C. Wallis. 1978. Viruses in water. *Bull. Wld. Hlth. Org.* 56:499-508
- Gerba, C.P., and C.H. Stagg. 1979. Protection of viruses during disinfection by adsorption to particulate matter. (Discussion). *J. Water Pollut. Contr. Fed.* 51:414-416.
- Goyal, S.M., C.P. Gerba, and J.L. Melnick. 1979. R+ bacteria in estuarine sediments. *Marine Pollut. Bull.* 10:25-27.
- Goyal, S.M., C.P. Gerba, and J.L. Melnick. 1979. Transferable drug resistance in bacteria of coastal canal water and sediment. *Water Res.* 13:349-356.
- Wallis, C., J.L. Melnick, and C.P. Gerba. 1979. Concentration of viruses from water by membrane chromatography. *Ann. Rev. Microbiol.* 33:413-437.

- Goyal, S.M., C.P. Gerba, and J.L. Melnick. 1979. Human enteroviruses in oysters and their overlying waters. *Appl. Environ. Microbiol.* 37:572-581.
- Hurst, C.J., and C.P. Gerba. 1979. Development of a quantitative method for the detection of enteroviruses in soil. *Appl. Environ. Microbiol.* 37:626-632.
- Estes, M.K., D.Y. Graham, E.M. Smith, and C.P. Gerba. 1979. Rotavirus stability and inactivation. *J. Gen. Virol.* 43:403-409.
- Smith, E.M., M.K. Estes, D.Y. Graham, and C.P. Gerba. 1979. A plaque assay for the simian rotavirus SA11. *J. Gen. Virol.* 43:513-519.
- Gerba, C.P., R.A.F. Dixon, F.E. Farber, C. Wallis, and J.L. Melnick. 1979. Photodynamic inactivation of fish pathogens. *Develop. Indust. Microbiol.* 20:647-651.
- LaBelle, R.L., and C.P. Gerba. 1979. Influence of pH, salinity and organic matter on the adsorption of enteric viruses to estuarine sediment. *Appl. Environ. Microbiol.* 38:93-101.
- Marzouk, Y., S.M. Goyal, and C.P. Gerba. 1979. Prevalence of enteroviruses in ground water of Israel. *Ground Water* 17:487-491.
- Goyal, S.M., and C.P. Gerba. 1979. Comparative adsorption of human enteroviruses, simian rotavirus and selected bacteriophages to soils. *Appl. Environ. Microbiol.* 38:241-247.
- Melnick, J.L., and C.P. Gerba. 1979. Is the water safe to drink? *J. Infect. Dis.* 139:736-737.
- Gerba, C.P., S.M. Goyal, R.L. LaBelle, I. Cech, and G.F. Bogdan. 1979. Failure of indicator bacteria to reflect the occurrence of enteroviruses in marine water. *Am. J. Publ. Hlth.* 69:1116-1119.
- Estes, M.K., D.Y. Graham, C.P. Gerba, and E.M. Smith. 1979. Simian rotavirus SA11 replication in cell cultures. *J. Virol.* 31:810-815.
- Melnick, J.L., and C.P. Gerba. 1980. The ecology of enteroviruses in natural waters. *CRC Crit. Rev. Environ. Contr.* 10:65-93.
- Gerba, C.P., S.M. Goyal, C.J. Hurst, and R.L. LaBelle. 1980. Type and strain dependence of enterovirus adsorption to activated sludge, soils and estuarine sediments. *Water Res.* 14:1197-1198.
- Lance, J.C., and C.P. Gerba. 1980. Poliovirus movement during high rate land filtration of sewage water. *J. Environ. Qual.* 9:31-34.
- Hurst, C.J., and C.P. Gerba. 1980. Stability of simian rotavirus in fresh and estuarine water. *Appl. Environ. Microbiol.* 39:1-5.

- Goyal, S.M., K.S. Zerda, and C.P. Gerba. 1980. Concentration of coliphages from large volumes of water and wastewater. *Appl. Environ. Microbiol.* 39:85-91.
- Goyal, S.M., H. Hanssen, and C.P. Gerba. 1980. Simple method for the concentration of influenza virus from allantoic fluid on microporous filters. *Appl. Environ. Microbiol.* 39:500-504.
- Goyal, S.M., C.P. Gerba, and J.C. Lance. 1980. Movement of endotoxin through soil columns. *Appl. Environ. Microbiol.* 39:544-547.
- LaBelle, R.L., C.P. Gerba, S.M. Goyal, J.L. Melnick, I. Cech, and G.F. Bogdan. Relationships between environmental factors, bacterial indicators and the occurrence of enteric viruses in estuarine sediments. *Appl. Environ. Microbiol.* 39:588-596.
- Wang, D.S., J.C. Lance, and C.P. Gerba. 1980. Evaluation of various soil water samples for virological sampling. *Appl. Environ. Microbiol.* 39:662-664.
- LaBelle, R.L., and C.P. Gerba. 1980. Influence of estuarine sediment on virus survival under field conditions. *Appl. Environ. Microbiol.* 39:749-755.
- Marzouk, Y., S.M. Goyal, and C.P. Gerba. 1980. Relationship of viruses and indicator bacteria in water and wastewater of Israel. *Water Res.* 14:1585-1590.
- Gerba, C.P., S.M. Goyal, I. Cech, and G.F. Bogdan. 1980. Bacterial indicators and environmental factors as related to contamination of oysters by enteroviruses. *J. Food Protect.* 43:99-101.
- Goyal, S.M., K.S. Zerda, and C.P. Gerba. 1980. Concentration of bacteriophage lysates by filter chromatography. *J. Virol. Methods.* 1:79-85.
- Gerba, C.P., K.C. Hou, R.A. Babineau, and J.V. Fiore. 1980. Pyrogen control by depth filtration. *Pharmaceut. Technol.* 4:83-89.
- Hurst, C.J., C.P. Gerba, J.C. Lance, and R.C. Rice. 1980. Survival of enteroviruses in rapid-infiltration basins during the land application of wastewater. *Appl. Environ. Microbiol.* 40:192-200.
- Liew, P., and C.P. Gerba. 1980. Thermostabilization of enteroviruses by estuarine sediment. *Appl. Environ. Microbiol.* 40:305-308.
- Hou, K., C.P. Gerba, S.M. Goyal, and K.S. Zerda. 1980. Capture of latex beads, bacteria, endotoxin and viruses by charge-modified filters. *Appl. Environ. Microbiol.* 40:892-896.
- Goyal, S.M., and C.P. Gerba. 1980. Simple method for concentration of bacteria from large volumes of tap water. *Appl. Environ. Microbiol.* 40:912-916.

- Hurst, C.J., C.P. Gerba, and I. Cech. 1980. Effects of environmental variables and soil characteristics on virus survival in soil. *Appl. Environ. Microbiol.* 40:1067-1079.
- Keswick, B.H., and C.P. Gerba. 1980. Viruses in groundwater. *Environ. Sci. Technol.* 14:1290-1297.
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