

Joan B. Rose
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Contact Information

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Education

B.S. Microbiology - University of Arizona
M.S. Microbiology - University of Wyoming
Ph.D. Microbiology - University of Arizona

Professional Experience

2005-present: Co-Director, Center for Advancing Microbial Risk Assessment (CAMRA), Michigan State University
(Center of Excellence DHS/EPA)
2005-present: Co-Director, Center for Water Sciences, Michigan State University
2003-present: Homer Nowlin Endowed Chair for Water Research, Michigan State University
1998-2002: Professor, College of Marine Science, University of South Florida
1994-1997: Associate Professor, Department of Marine Science, University of South Florida
1995: Courtesy Appointment, Associate Professor, Department of Civil and Environmental Engineering,
University of South Florida
1989-1994: Assistant Professor, Department of Environmental and Occupational Health, College of Public Health,
University of South Florida
1986-1989: Research Associate/Lecturer, Department of Microbiology and Immunology, and Nutrition and Food Science,
University of Arizona

Honors And Awards

Appointed to the National Research Council of the National Academies Board on Environmental Studies and Toxicology
2013-2017

Appointed to the U.S. Environmental Protection Agency's Great Lakes Advisory Board, 2013-2015

Elected to the National Academy of Engineering, 2011

Appointed to the Scientific Advisory Board of the Canadian National Research Center.
Applied Metagenomics of the Watershed Microbiome. University of British Columbia, 2011-current

Appointed as Science Advisor to Singapore *Centre on Environmental Life Sciences Engineering*
Nanyang Technological University, Singapore 2009-current

Elected as President of the Michigan Branch of the American Society of Microbiology, 2011-13

Elected as a Fellow to the International Water Association, 2010

Elected as an American Association for the Advancement of Science Fellow, 2010

Appointed as a member of the U.S. National Committee for UNESCO the International Hydrological Program, 2009-2011

Appointed to the Science Advisory Board of the Environmental Protection Agency, Chair of the Drinking Water Committee, 2004-2010

Elected Chair of the International Water Association's Health-Related Water Microbiology Specialty Group, 2003-2010

Presented with the Singapore Public Service Medal, Ministry of Environment and Water Resources, August, 2009

Japan Society for the Promotion of Science Fellowship, January-March, 2009

Michigan State University College of Agriculture and Natural Resources, Distinguished Faculty Researcher, 2009

Michigan State University Distinguished Faculty Award, 2009

Received the first International Water Association Hei-jin Woo Award for Achievements of Women in the Water Profession, 2008

Received the Outstanding Woman Faculty Award, Michigan State University, 2008

Distinguished Lecturer for Association Environmental Engineers and Science Professors, 2006-2007

Elected to the Council Policy Committee for the American Society of Microbiology, 2001-2007

Appointed to the Research Advisory Board, National Water Research Institute, 2002-2007

Appointed to the Science Advisory Board of the International Commission of the Great Lakes, 2003-2005

Elected Vice Chair of the USA National Committee for the International Water Association, 2002-2005

Best Paper Award 2005 Water Science and Research Division, American Water Works Association for: "Risk Assessment of Waterborne Coxsackievirus" JAWWA, July, 2005

Elected to the Research Advisory Council for the Water Reuse Foundation, 2003-2005

Appointed to the Alan T. Waterman Award Committee, National Science Foundation, 2002-2005

Elected to the Board of Directors, Association of Environmental Engineering and Science Professors, 2002-2005

Outstanding Contribution, 2005, AWWA Water Resources Division Best Paper Award for "Risk Assessment for Waterborne Coxsackie Viruses" by Mena et al. in JAWWA, June 12, 2005

Appointed Chair of Michigan Environmental Science Board for the Governor of Michigan, 2004

Appointed to Life Sciences Board of National Academy of Science, National Research Council, 2001-2004

Appointed to Water Science and Technology Board of National Academy of Science, National Research Council, 1998-2004

Best Paper Award, First Place for the 2003 AWWA Water Resources Division for "Predicted Public Health Consequences of Body-Contact Recreation on a Potable Water Reservoir" Stewart et al. JAWWA, June 12, 2003

Presented the "Walter J. Weber, Jr. Distinguished Lecture in Environmental Sciences and Engineering," College of Engineering, University of Michigan March 28, 2003

Received the Athalie Richardson Irvine Clarke Water Prize. Presented July 2001 at Costa Mesa, CA for significant contributions to Water Science and Technology, from the National Water Research Institute, 2001

Named as one of the 21 most influential people in Water in the 21st Century by Water Technology Magazine, 2000

Honorary membership to Phi Theta Kappa, 2000

Two Thousand Notable American Women, Millennium edition, American Biographical Institute, 1999

President of Florida Branch of American Society for Microbiology, 1997-1999

Honorary membership award, for dedicated research and education services for the Water Quality Association, 1998

YMCA Tribute to Women and Corporations in Tampa Bay: Nominee, March 1997

American Water Works Association, Research Division, Best Poster Award, Annual Meeting, 1997

President of Florida Environmental Health Association, 1995-1996

Foundation for Microbiology National Lectures Program, American Society of Microbiology, 1994-1996

Appointed to State of Florida Health and Rehabilitative Services Research Review and Advisory Committee, 1993-1995

Vice President of Florida Environmental Health Association, 1994-1995

Distinguished Teaching Award, College of Public Health, 1993-1994

Who's Who in the World, 1994

Elected as a Fellow to the American Academy of Microbiology, August 1993

Article, "Risk Assessment . . ." selected as outstanding in its field by "Clinical Digest Series," 1992

America's Who's Who - Who's Who of American Women, 1992

America's Who's Who - Who's Who Environmental Registry, 1992

Award for best presentation at the National Water Supply Improvement Association, August 1991 (National Conference)

America's Who's Who - Who's Who in Science and Engineering, 1991

America's Who's Who - America's Outstanding Women of the Eighties, 1989

Environmental Science and Engineering Fellowship, American Association for the Advancement of Science, 1988

Phi Kappa Phi and Gamma Sigma Delta Scholastic Honoraria's

Alpha Zeta, Agricultural Honorary

Sigma Xi, Research Honorary

Graduate Study Scholarship (University of Wyoming)

Newton and Shirlee Pfeiffer Memorial Scholarship, National Science Foundation

Professional Society Memberships

American Academy of Microbiologists
American Public Health Association
American Society for Microbiology
American Water Works Association
Society for Risk Analysis
International Water Association
Water Environment Federation

Special Seminars And Presentations

2013

Invited Presentation on Water to the Advisory Board for Landscape Architecture Association at MSU, East Lansing, MI, April 5.
Invited Speaker: American Chemical Society: Press Conference Water and Society, New Orleans, LA, April 8.
Invited Speaker: President's Symposium, Imperative Research and Education in Health related Water Science, American Chemical Society, National Meeting, New Orleans, LA, April 9, 2013.
Invited Speaker: MSU Science Fair, Say it in 7: Waterborne Plaques of the 21st Century, East Lansing, MI April 12.
Invited Panel Participant: How Clean are Your Beaches?, Detroit Public Television, Great Lakes Now Connect: Beaches Program, Detroit, MI, May 14.

2012

Invited Speaker: Water- Michigan's Abundant Resource Michigan State University Extension Climate and Water Webinar, March 16.
Participant: Pathogens Workshop, Water Research Foundation, Virginia Tech Univ., Washington, D.C., March 26-27.
Keynote: Sinking, Swimming, Floating My Life in Water Science, 2012 MSU Council of Graduate Students, Graduate Academic Conference (GAC), Michigan State University, March 30.
Organizing Committee Member and Participant: Microbes of the Built Environment: Water colloquium American Academy of Microbiology, Boulder CO, April 11-13.
Invited Speaker and Panelist, What's Bugging You – The Emergence of Pathogen X, OZwater, Water Quality Research Australia, Annual Conference, Sydney, Australia, May 6-10.
Invited Speaker: Weathering the Storm: Protecting Water Quality and our Health Nutrition and Wellness Research Center (NWRC) symposium "Sustaining Health in a Changing Environment: Creating a Resilient Future", Iowa State University. May 16-18.
Invited Seminar: Water Quality and Health: Using Molecular Signals for Water Safety Seminar Series in the Institute for Environmental Genomics at Oklahoma University. June 4-8.
Invited Speaker: Climate Change & Water Quality: Implications for the Future, Macomb MSU Extension Clinton Twp. MI, June 12.
Invited Seminar, QMRA Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, People's Republic of China, July 12-14.
Invited Speaker: Molecular Tools for Developing a Recreational QMRA, World Congress on Risk, Society for Risk Analysis, Sydney, Australia, July 17-20
Invited Speaker: Recent Advances in Fecal Sourcing: Implications for Risk Assessment in Water and Food Safety, Food and Environmental Virology Congress, Lisbon, Portugal, October 7-10
Invited Speaker: The Microbiology of the Coupled Human-Water Cycle: Emerging Pathogens and Water Safety Recent Advances in Microbial Control (RAMC) Meeting, Society for Industrial Microbiology and Biotechnology Alexandria, VA, Oct. 28-31.
Invited Speaker: Great Lakes 100 Year View: Water Quality, Climate, and Health, 2012 NWRI Clarke Prize Conference: Research and Innovations in Urban Water Sustainability, Irvine CA, Nov. 2
Distinguished Lecturer: Imperative Research in Health-Related Water Microbiology, Biological and Environmental Sciences and Engineering Division, Distinguished Lecture Series, King Abdullah University of Science and Technology (KAUST), Saudi Arabia, Nov. 10-13
Invited Speaker: Evolution of Methods for Monitoring Beach Safety, 100 Years of Progress into the 21st Century, 6th Binational Lake St. Clair Conference. Building Partnerships. Strengthening Collaboration and Advancing the Environmental and

Editorial Functions

Designer and Director of QMRAwiki 2010-Current.

[http://wiki.camra.msu.edu/index.php?title=Quantitative_Microbial_Risk_Assessment_\(QMRA\)_Wiki](http://wiki.camra.msu.edu/index.php?title=Quantitative_Microbial_Risk_Assessment_(QMRA)_Wiki)

Editorial board member, International Journal of Hygiene and Environmental Health, 2001-current

Regional Editor for the Americas "International Journal of Environmental Health Research," Taylor and Frances, 1990-2011

Special Editor "Environmental Science and Technology" Emerging Waterborne Pathogens, 2006

Special Editor "Water Environment Research" Updates on Microbial Risks, 2005-2006

Editorial board member, Journal of Climate and Health, 2000

Editorial board member for the Journal of American Water Works Association, 1999-2001

Current Reviewer

American Journal of Infection Control

Applied and Environmental Microbiology

Canadian Journal of Microbiology

Compost Science and Utilization

Environmental Science and Technology

Journal of American Water Works Association

Journal of Environmental Science and Technology

Journal of Parasitology, Environmental Technology Letters

Michigan Sea Grant

Oregon Sea Grant

Minnesota Sea Grant

National Science Foundation

International Association for Water Pollution Research and Control

Scripps Institute of Oceanography Sea Grants

University of New Hampshire

Water Environment Federation

USDA Water Initiative Grants

USDA Food Safety Grants

Journal of International Ozone Association

Review of "Agents of Bioterrorism: Pathogens and their weaponization," edited by Geoffrey Zubay, Nature Biotechnology, November 2005, Columbia University Press

Review of "Giardia The Cosmopolitan Parasite," edited by B.E. Olson, M.E. Olson and P.M. Wallis, The Quarterly Review of Biology, State University of New York, Stony Brook, NY, September 11, 2003

Review of FAO/WHO Microbiological Risk Assessment Guidelines for "Hazard Characterization for Pathogens in Food and Water," 2003

Reviewer for Papers for the 2002 International Water Association Third World Water Congress, Melbourne, Australia, April 8-12, 2002

Service To The Community

2013

Radio Interview, "Measuring Great Lakes water quality today and a century ago," WKAR Radio Magazine, East Lansing, MI, March 26.

Radio Interview: Beach Hygiene for a New Water Cycle, Great Lakes Echo, May 6.

Featured Article in Mlive.com, "Thousands of failed septic tanks across the state threaten Michigan's waters," Mlive.com, May 14.

Huffington Post Water Science Blog http://www.huffingtonpost.com/joan-b-rose/do-you-know-where-your-e-coli-are_b_3480136.html, Do you Know Where Your E coli Are?, June 2013.

2012

Presentation for the Workshop for Faculty on Leadership and Academic Life, Discussion of the Public Intellectual. Michigan State University, E. Lansing Feb. 28th

Reviewer for NSF program on Ecology and Evolution of Infectious Disease, Washington D.C., Feb. 22-24.

Featured article in X-ology, Water Professionals, Detroit MI, <http://xologymagazine.com/index.php>, April 2012

Radio Interview, Pools and Safe Swimming, Bernier, Nathan J [nbernier@kut.org] June 7

Participant Water Quality Town Hall, Rep Forlini, MacRay Harbor, Sept 5

Huffington Post Water Science Blog http://www.huffingtonpost.com/joan-b-rose/water-pollution_b_1858928.html. Is Your Water Making You Sick, Sept 2012

Huffington Post Water Science Blog http://www.huffingtonpost.com/joan-b-rose/water-cycle_b_2172883.html The New and Improved Water Cycle? Nov. 2012

2011

Magazine Interview: Water Quality Men's Health Magazine. Claire Constant Feb 9, 2011

The Spartan Insight Series, sponsored by the MSU Alumni Club of Mid MI. Michigan's Water Assets: The Threats to Water Quality and Our Health, MSU, Feb. 16th, 2011

Sea Grant Advisory Board meeting: Invited presentation: Water Perturbations- Health Risk Research and Outreach Needs of Great Lakes Coastal Communities, Henry Center, MSU. April 15th, 2011

Presentation Water Quality Issues for SOAR (Society of Active Retirees), Detroit, May 11, 2011

Radio Interviews with J.B. Rose: Water Quality in Pools; Sacramento CA, KFBK-AM, 5/23; Syracuse NY, WNTQ-FM, 5/29; Boston, MA, WDIS-AM, 5/23; Tampa FL, WMNF-FM (taped); Omaha, NE, KMA-AM, 5/25

Invited Speaker: American Society of Microbiology, Kadner Institute for Graduate Students and Postdoctoral Scientists in Preparation for Careers in Microbiology, MSU, July 23-27, 2011

Interviewed for "The State News" Company sniffs out environmental hazards with the help of canine companions," Sep 7, 2011.

Participation in Academic Roundtable with the Honorable David Adleman, U.S. Ambassador to Singapore, Why Singapore? Why Asia? Why now? MSU, September, 14, 2011

PROFESSIONAL EXPERIENCE

Quantitative Microbial Risk Assessment

Public Health Water Microbiology

Environmental Virology

Environmental Parasitology

Drinking Water Treatment and Disinfection

Wastewater Treatment and Reuse

Water Pollution Microbiology

Mycology

Food Microbiology

Teaching Experience And Educational Activities

Courses Taught

Virology

Food Microbiology

Environmental and Occupational Health

Biotechnology and Public Health

Analysis of Water and Wastewater

Environmental Microbiology

Environmental Virology

Water Pollution Microbiology

Risk Assessment

Specialized Instruction

Organized and Taught an International Quantitative Microbial Risk Assessment Institute, Public Utilities Board, Singapore, Jan 16-18, 2012

Organized the 6th Quantitative Microbial Risk Assessment Summer Institute, MSU, E. Lansing, MI Aug. 21-26, 2011

Organized the 5th Quantitative Microbial Risk Assessment Summer Institute, Delft University, Netherlands, June. 20-25, 2010

Organized the 4th Quantitative Microbial Risk Assessment Summer Institute, MSU, E. Lansing, MI Aug. 15-21, 2009

Organized the 3rd Quantitative Microbial Risk Assessment Summer Institute, MSU, E. Lansing, MI Aug. 10-15, 2008

External Examiner: Ryan S. Signor, PhD in School of Civil and Environmental Engineering, University of New South Wales, Sydney, Australia. 2008

Organized the 2nd Quantitative Microbial Risk Assessment Summer Institute, MSU, E. Lansing, MI Aug. 19-24, 2007

Organized the 1st Quantitative Microbial Risk Assessment Summer Institute, MSU, E. Lansing, MI Aug. 5-12, 2006

Organizer of training workshop, "Ensuring the Quality and Safety of Hawaiian Water," CDC's National laboratory Training Workshop Network, Pearl City, Hawaii January 1997.

Project Oceanography 3 part series, "The Watery Planet," Feb 28, March 7, March 14-1997.

Instructor for Florida Water & Pollution Control Operators Association, training of Plant and Systems Operators Region IV Short School, June 23, 1997.

American Water Works Service Company Educational Workshop Microbial Risk Assessment, New Jersey, December 2, 1997.

Instructor for The National Laboratory Training Network on "Twentieth Century Plagues," Los Angeles, CA, March 1 - 2, 1996.

Lecture on Environmental Law at Stetson University College of Law, St. Petersburg, FL, May 25, 1996.

Mentor to High School student Stacey Gorovoy during the summer of 1996.

Instructor for short course in Florida Water Pollution Control Operators Association, Inc.

"Microbiology and Bloodborne Pathogens," Clearwater, FL, June 26, 1995.

In-service Division Staff Training Session, Pinellas County Public Health Unit, Clearwater, FL, December 1, 1995.

Training for Mr. Richard Berry and Ms. Debra Petty of the Department of Health and Rehabilitative Instructors in American Water Works Association Teleconference, "Prevention of Waterborne Disease," April 8, 1994.

Instructor for "Methods for Identifying and Enumerating Giardia and Cryptosporidium in Water samples," Training Course for Water Quality Technology Conference, AWWA, Orlando, FL, November 14 - 15, 1991; and Toronto, Canada, November 19 -20, 1992; Miami, FL, November, 1993.

External Examiner for PhD candidate Mr. Robert A. Gilmour, Dept. of Civil Engineering, University of Strathclyde, 1990.

Instructor for American Society for Microbiology Workshop on "Drinking Water Quality: Recent Concerns and New Developments," New Orleans, LA, 1989.

Educational Representative for Arizona Branch of Education and Training, American Society for Microbiology, 1986-1988.

Advisor for University of Arizona Student Microbiology Club, 1987-1988.

Instructor for American Society for Microbiology Workshop on "Pathogenic Protozoa in Water," Miami, FL, May 1988.

Development Of Instructional Videos

Project Oceanography: "Neighborhood Water Quality II," College of Marine Sciences, USF, 2000

American Medical Review, WJMK video, "Preventing waterborne illness through the use of P.O.U. Systems," January 1997.

WUSF FM 89.7, "Water," University Beat, March 1997.

The Education/Explorer Channel Telethon, Science Forum, 1997.

Septic Tanks and Water Quality, Health and Rehabilitative Services, Florida, 1994.

American Water Works Association Teleconference, "Prevention of Waterborne Disease," April 8, 1994.

American Water Works Association, "Cryptosporidium Meeting the Challenge," 1994.

Microscopic Detection of *Cryptosporidium* and *Giardia*, American Water Works Service Company, University of South Florida, and the Environmental Protection Agency, 1993.

International Courses

Quantitative Microbial Risk Assessment Innovation Institute, Pan American Advanced Studies Institute (PASI): Linking Microbiology, Engineering, and Mathematics for Water Research, , Sao Paulo, Brazil, June 30-July 10, 2013

Instituto de Ecología, Universidad Nacional Autónoma de México *Introduction to Quantitative Microbiological Risk Assessment Methodologies Course*, Mexico City, Mexico, Nov. 7-9, 2011

Brazilian Federal Government CETESB "Program in Microbial Risk Assessment" Sao Paulo, Brazil, June 16-18, 2005

Ministerio de Salud. Water Quality Workshop. Panama. Nov. 17-21, 2001.

Tools and Techniques for Addressing Emerging Microbial Water Quality Issues, University of Singapore, July 25-27, 2000.

Seminario de Microbiología del agua, y aspectos relacionados con microbiología ambiental, CDC, Universidad del Valle de Guatemala: January 25-28, 2000.

"Seminario De Microbiología y Ambiental De Agua," Universidad de Panama, Suelo y Alimento, Panama, May 12-16, 1997.

Workshop on "Detection of Viruses and Parasites in Water," Sao Pablo, Brazil, Universidad de Brazil, August 15 - 19, 1994.

"Water Microbiology for the 21st Century," Department of Microbiology and Public Health Laboratory, University Hospital, Queens Medical Centre, Nottingham, United Kingdom, September 21 - 23, 1994.

"Waterborne Microbiology for the 21st Century," MacQuarie University, Group on Australian Environmental Flow Cytometry, Sydney, Australia, September 21 - 22, 1993.

"Auanas en la Deteccion de Virus y Parasitos en Aguas y Liquidos Residuales," Universidad de Buenos Aires, Argentina, July 26 - 31, 1993.

Workshop on "Detection of Viruses and Parasites in Water," Maracaibo, Venezuela, University of Zulia, September 21 - 25, 1992.
Workshop on "Environmental Biotechnology of Waterborne Microorganisms," University of Panama, Panama, April 20 - 25, 1992.

"Curso Para Deteccion de Parasitos, Viros y Bacteria en Agua," Univ of Chile, October 5 - 15, 1991.

"International Course for Virus and Parasites from Wastewater," sponsored by World Bank, Pan American Health Organization and Instituto Mexicano de la Tecnologia del Agua, Mexico City, Mexico, September 26 - October 7, 1988.

Active Research Activities

1. Principal Investigator, Co-Director. 2005-2013. "Center for Advancing Microbial Risk Assessment." EPA/Department of Homeland Security. 7.5 years. \$10,000,000.

2. Principal Investigator. 2011-2020. "City Of Toledo Ballasted Flocculation Pathogen Sampling Study." City of Toledo; Black and Veatch. 10 years. \$1,200,000.

3. Principal Investigator. 2012-2013. Pan-American Advanced Studies Institutes Program (PASI); Quantitative Microbial Risk Assessment Innovation Institute, National Science Foundation, 1 year, \$99,986.

4. Co-Principal Investigator. 2012-2017. "Partnership for International Research and Education: Water and Commerce-Technologies to Enable Environmental Sustainability in Global Markets," National Science Foundation, 5 years, \$5,000,629.

5. Principal Investigator. 2013-2015. "Advancing Next Generation Genomic Tools for Discovery of the Food Microbiome: From the Field to the Store," USDA NIFA, \$299,999.

6. Principal Investigator. 2012-2014. "Identify Land Use Tipping Points that Threaten Great Lakes Ecosystems." CILER UMich/NOAA. 2 years. \$55,011.

Publications

Refereed Publications

1. Gilliam, M., Taber III, S., and Rose, J.B. 1978. Chalkbrood Disease of Honeybees. *Apis mellifera* L.: A Progress Report. *Apidologi* 9(1): 75-89.
2. Gilliam, M., Taber III, S., and Rose, J.B. 1978. Recherches sur le couvain platre. *A Piacra* XIII. 67-75.
3. Thompson, S.P., Rose, J.B., and McMahan, L.J. 1979. Stability of Peripheral Blood Lymphocyte Count and E-Nosette Forming Lymphocytes in Healthy Adults. *Immunological Communications*. 8(9): 313-323.
4. Singh, S.N., Rose, J.B., and Gerba, C.P. 1983. Concentration of Viruses from Tap Water and Sewage with a Charge Modified Filter Aid. *J. Virological Methods*. 6: 329-336.
5. Rose, J.B., Christensen, M., and Wilson, W.T. 1984. *Ascospaera* Species Inciting Chalkbrood in North American and a Taxonomic Key. *Mycotoxin* XIX 41-55.
6. Rose, J.B., Singh, S.N., Gerba, C.P., and Kelley, L.M. 1984. Comparison of Microporous Filters for Concentration of Viruses from Wastewater. *Appl. Environ. Microbiol.* 47 (5): 989-992.
7. Keswick, B.H., Gerba, C.P., Dupont, H.L., and Rose, J.B. 1984. Occurrence of Viruses in Treated Drinking Water. *Appl. Environ. Microbiol.* 47(6): 1290-1294.
8. Gerba, C.P., Singh, S.N., and Rose, J.B. 1985. Waterborne Viral Hepatitis and Gastroenteritis. *CRC Crit. Rev. Environ. Control*. 15: 213-236.
9. Keswick, B.H., Gerba, C.P., Rose, J.B., and Toranzos, G.A. 1985. Detection of Rotavirus in Treated Drinking Water. *Wat. Sci. Tech.* 17: 1-6.
10. Rose, J.B., Gerba, C.P., Singh, S.N., Toranzos, G.A., and Keswick, B. 1985. Isolating Viruses from Finished Water. *J. Amer. Water Works Assoc.* January Vol. 78(1): 56-61.
11. Rose, J.B. and Gerba, C.P. 1986. A Review of Viruses in Drinking Water. *Current Practices in Environmental Engineering*. Vol. 2: 119-143.
12. DeLeon, R., Singh, S.N., Rose, J.B., Mullinax, R.L., Musieal, C.E., Kutz, S.M., Sinclair, N.A., and Gerba, C.P. 1986. Microorganism Removal from Wastewater by Rapid Mixed Media Filtration. *Wat. Res.* 20(5): 583-587.
13. Rose, J.B. 1986. Microbial Aspects of Wastewater Reuse for Irrigation. *CRC Crit. Rev. Environ. Control*. 16: 231-256.
14. Rose, J.B., Cifrino, A., Madore, M.S., Gerba, C.P., Sterling, C.R., and Arrowood, M.J. 1986. Detection of *Cryptosporidium* from Wastewater and Freshwater Environments. *Wat. Sci. Tech.* 18: 233-239.
15. Madore, M.S., Rose, J.B., Gerba, C.P., Arrowood, M.J., and Sterling, C.R. 1987. Occurrence of *Cryptosporidium* Oocysts in Sewage Effluents and Select Surface Waters. *J. Parasitol.* 73: 702-705.
16. Rose, J.B., Mullinax, R.L., Singh, S.W., Yates, M.V., and Gerba, C.P. 1987. Occurrence of Rota- and Enteroviruses in Recreational Waters of Oak Creek, Arizona. *Wat. Res.* 21: 1375-1381.
17. Rose, J.B. 1988. Occurrence and Significance of *Cryptosporidium* in Water. *J. Amer. Water Works Assoc.* Feb. 80: 53-58.
18. Rose, J.B., Darbin, H., and Gerba, C.P. 1988. Correlations of the Protozoa, *Cryptosporidium* and *Giardia* with Water Quality Variables in a Watershed. *Wat. Sci. Tech.* 20: 271-276.
19. Rose, J.B., Kayad, D., Madore, M.S., Gerba, C.P., Arrowood, M.J., Sterling, C.P., and Biggs, J. 1989. Methods for the

20. Hayes, E.B., Matte, T.D., O'Brien, T.R., McKinley, T.W., Logsdon, G.S., Rose, J.B., Ungar, B.L.P., Word, D.M., Pinsky, P.F., Cummings, M.L., Wilson, M.A., Long, E.G., Hurwitz, E.S., and Juranek, D.D. 1989. Contamination of a Conventionally Treated Filtered Public Water Supply by *Cryptosporidium* Associated with a Large Community Outbreak of Cryptosporidiosis. *New England Journal of Medicine*. 320: 1372-1376.
21. Rose, J.B., DeLeon, R., and Gerba, C.P. 1989. *Giardia* and Virus Monitoring of Sewage Effluent in the State of Arizona. *Wat. Sci. Tech.* 21: 43-47.
22. Rose, J.B., Landeen, L.K., Riley, K.R., and Gerba, C.P. 1989. Evaluation of Immunofluorescence Techniques for Detection of *Cryptosporidium* Oocysts and *Giardia* Cysts from Environmental Samples. *Appl. Environ. Microbiol.* 55: 3189-3196.
23. Naranjo, J., DeLeon, R., Gerba, C.P., and Rose, J.B. 1989. Monitoring for Viruses and Parasites in Reclaimed Water. *The Bench Sheet*. 11: 8-10.
24. Smith, H.V. and Rose, J.B. 1990. Waterborne Cryptosporidiosis. *Parasitol. Today*, 6: 8- 12.
25. Rose, J.B. and Gerba, C.P. 1990. Assessing Potential Health Risks from Viruses and Parasites in Reclaimed Water in Arizona and Florida. *Wat. Sci. Tech.* 23: 2091-2098.
26. Rose, J.B. 1990. Emerging Issues for the Microbiology of Drinking Water. *Water. Eng. and Manag.* 137: 23-29.
27. Badawy, A.S., Rose, J.B., and Gerba, C.P. 1990. Comparative Survival of Enteric Viruses and Coliphage on Sewage Irrigated Grass. *J. Environ. Hlth.* 25: 937-952.
28. Rose, J.B. and Botsenhardt, K. 1990. Recovery of the Enteric Protozoa, *Cryptosporidium* and *Giardia* from Water and Significance to Health. Translated for: *gwf Das Gas-und Wasserfach Munchen*. 131. Nr. 10 p. 563-572.
29. Rose, J.B. 1990. Environmental Sampling for Waterborne Pathogens: Overview of Methods, Application Limitations and Data Interpretation. IN: *Methods for the Investigation and Prevention of Waterborne Disease Outbreaks*. Craun, G.F. (ed). U.S. Environmental Protection Agency. Report #EPA/600/1-90/005a. Office of Research and Development, Washington, D.C.
30. Rose, J.B., Sun, G.S., Gerba, C.P., and Sinclair, N.A. 1991. Microbial Quality and Persistence of Enteric Pathogens in Graywater from Various Household Sources. *Wat. Res.* 25: 37-42.
31. Hurst, C.J., Schaub, S.A., Sobsey, M.D., Farrah, S.R., Gerba, C.P., Rose, J.B., Goyal, S.M., Larkin, E.P., Sullivan, R., Tierney, J.T., O'Brien, R.T., Safferman, R.S., Morris, M.E., Wellings, F.M., Lewis, A.L., Berg, G., Britton, P.W., and Winter, J.A. 1991. Multilaboratory Evaluation of Methods for Detecting Enteric Viruses in Soils. *Appl. Environ. Microbiol* 57: 395-401.
32. Rose, J.B. and Gerba, C.P. 1991. Use of Risk Assessment for Development of Microbial Standards. *Wat. Sci. Tech.* 24(2): 29-34.
33. Abbaszadegan, M., Gerba, C.P., and Rose, J.B. 1991. Detection of *Giardia* Cysts with a cDNA Probe and Applications to Water Samples. *Appl. Environ. Microbiol.* 57: 927-931.
34. Rose, J.B., Haas, C.N., and Regli, S. 1991. Risk Assessment and Control of Waterborne Giardiasis, *Amer. J. Public Hlth. Assoc.* 81(6): 709-713.
35. Rose, J.B., Gerba, C.P., and Jakubowski, W. 1991. Survey of Potable Water Supplies for *Cryptosporidium* and *Giardia*. *Environ. Sci. Tech.* 25(8): 1393-1400.
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