

Jack S. Mandel, Ph.D. M.P.H
Chief Science Officer

Professional Profile

Dr. Jack S. Mandel is Chief Science Officer at Exponent, Inc. Most recently he was Professor and Director of the Dalla Lana School of Public Health, University of Toronto. From 2002-2008, Dr. Mandel was at Emory University in Atlanta where he served as Rollins Professor and Chair of the Department of Epidemiology, in the Rollins School of Public Health and Deputy Director for Cancer Control and Population Sciences in the Winship Cancer Institute. While at Emory, he was selected as a Georgia Cancer Coalition (GCC) Distinguished Cancer Scholar. From 1999-2002, Dr. Mandel was a Group Vice President of Exponent.

Dr. Mandel was a member of the University of Minnesota faculty from 1975-1999. From 1995 to 1999, he was the Head of the Division of Environmental and Occupational Health in the School of Public Health. In 1996, he received the distinguished honor of being named to the endowed Mayo Chair in Public Health. In 1997, he was the recipient of the Leonard M. Schuman Award for Excellence in Teaching. During his tenure at the University of Minnesota, Dr. Mandel served on a number of international, national, state, and local committees. He has also served as a consultant to industry, professional associations, and governmental agencies.

Dr. Mandel has conducted many case-control, cohort (both prospective and retrospective), cross-sectional, experimental, and methodological studies. He has published more than 200 articles related to epidemiology, including studies of prostate, colorectal, kidney, pancreatic, breast, lung, stomach, hematopoietic and skin cancers. These studies have evaluated a variety of potential etiologic factors including occupational exposures, radiation, pesticides and other chemicals, hormones, medications, diet, alcohol, and tobacco, as well as other lifestyle factors.

Academic Credentials and Professional Honors

Ph.D., Epidemiology, University of Minnesota, 1981
M.P.H., Epidemiology, University of Minnesota, 1973
B.Sc., Mathematics, University of Manitoba, 1966

Georgia Cancer Coalition Distinguished Cancer Scholar, 2003–2008
Leonard M. Schuman Award for Excellence in Teaching, 1997
Excellence in Teaching Award, 1988–1989
Health Scientist Fellowship from the Department of National Health and Welfare, Ottawa, Canada, 1972–1975

Publications

Mandel JS, Adami HO, Cole P. Paraquat and Parkinson's Disease: An overview of the epidemiology and a review of two recent studies. *Regul Toxicol Pharmacol*, in press.

Boffetta P, Fryzek J, Mandel JS. Occupational exposure to beryllium and cancer risk: A review of the epidemiologic evidence. *Crit Rev Toxicol*, in press.

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Sathiakumar N, MacLennan PA, Mandel J, Delzell E. A review of epidemiologic studies of triazine herbicides and cancer. *Crit Rev Toxicol* 2011;41 Suppl 1:1-34.

Mink PJ, Mandel JS, Lundin JI, Scurman BK. Epidemiologic studies of glyphosate and non-cancer health outcomes: A review. *Regul Toxicol Pharmacol* 2011;61:172-184.

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Group. Exposure to farm crops, livestock and farm tasks and risk of glioma. The Upper Midwest Health Study. *Am J Epidemiol* 2009; 169:1479-1491.

Cole P, Mandel S, Collins JJ. Acrylonitrile and cancer: a review of the epidemiology. *Regul Toxicol Pharmacol* 2008; 52:342-351.

Goodman M, Bostick RM, Dash C, Terry P, Flanders WD, Mandel J. A summary measure of pro- and anti-oxidant exposures and risk of incident, sporadic, colorectal adenomas. *Cancer Causes and Control* 2008; 35:1051-1064.

Mandel JS, Smith R. Principles of Cancer Screening. In: *Cancer: Principles and Practices of Oncology*. Ed: DeVita VT, Lawrence TS, Rosenberg SA. Lippincott:Williams and Wilkins. 2008.

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Schuman LM and Mandel JS. Prostatic cancer in blacks. Proceedings of a Workshop on Esophageal and Prostatic Cancer: The Basis for Black-White Difference in Incidence, Washington, D.C., October 23, 1979.

Sigurdson E, Levy B, Mandel JS et al. Cancer morbidity investigations: Lessons from the Duluth study of possible effects of asbestos in drinking water. Paper presented to the Second

Workshop on Health Surveillance Around Point Sources of Pollution, Albuquerque, New Mexico, January 22-24, 1979.

Sigurdson E, Mandel JS, McHugh RB, Michienzi L, Levy B and Jagger H. Investigating possible effects of amphibole fibers in city water: Surveillance of cancer incidence in Duluth. Paper presented to the American Public Health Association, Los Angeles, California, 1978.

Windler C, Mandel J and McHugh R. Test predictivity in multi-site cancer screening. Paper presented to the American Public Health Association, Washington, D.C., 1977.

Mandel JS. Epidemiologic study of etiologic factors in prostatic cancer. Paper presented to Society for Epidemiologic Research, Seattle, Washington, 1977.

Neri L, Hewitt D, Schreiber G and Mandel JS. Is there a water factor: A case for magnesium. Paper presented to Seventh International Water Quality Symposium, Washington, D.C., 1974.

Neri L, Mandel JS, Hewitt D and Jurkowski D. Chronic obstructive pulmonary disease in two Ontario communities. Paper presented to International Epidemiologic Association, Brighton, England, 1971.

Neri L, Mandel JS and Davies J. Household survey for chronic respiratory disease in Ottawa. Paper presented to the Canadian Thoracic Society, Toronto, Ontario, 1971.

Neri L and Mandel JS. Epidemiologic survey of respiratory disease in Ottawa. Paper presented to the Canadian Thoracic Society, Toronto, Ontario, 1970.

Neri L and Mandel JS. The relationship between water hardness and cardiovascular mortality. The Canadian experience. Paper presented to the Society for Epidemiologic Research, Minneapolis, Minnesota, 1970.

Prior Experience

Professor and Director, Dalla Lana School of Public Health, University of Toronto,
2008-10

Rollins Professor and Chairman, Dept. of Epidemiology, Rollins School of Public Health,
Emory University, 2002-08

Professor, Dept. Hematology and Oncology, School of Medicine, Emory University,
2003-08

Georgia Cancer Coalition Distinguished Cancer Scholar, 2003-08

Deputy Director, Cancer Control and Population Sciences, Winship Cancer Institute, 2007-08

Consulting Professor, School of Medicine, Stanford University, 2000-02

Adjunct Professor, School of Medicine, University of California, San Francisco, 2001-02

Group Vice President, Exponent Inc., 1999-02

Head, Division of Environmental and Occupational Health School of Public Health, University
of Minnesota, 1995-99

Professor, Division of Environmental and Occupational Health, School of Public Health,
University of Minnesota, 1988-99

Mayo Chair in Public Health, University of Minnesota, 1996-99

Director of Graduate Studies, Division of Environmental and Occupational Health School of
Public Health, University of Minnesota, 1989-95

Instructor, Midwest Occupational Health Institute, University of Minnesota, 1983-88

Associate Professor, Division of Environmental Health, School of Public Health, University of
Minnesota, 1984-88

Instructor, Graduate Summer Session in Epidemiology, University of Minnesota, 1980-85

Assistant Director, Division of Epidemiology, School of Public Health, University of
Minnesota, 1979-83

Director of Graduate Studies, Division of Epidemiology, University of Minnesota 1982-84

Associate Professor, Division of Epidemiology, School of Public Health, University of
Minnesota, 1981-84

Assistant Professor, Division of Epidemiology, School of Public Health, University of
Minnesota, 1980-81

Instructor, Division of Epidemiology, School of Public Health, University of Minnesota, 1975-
80

Assistant Professor, Department of Epidemiology and Community Medicine, University of
Ottawa, 1974-75

Lecturer, Department of Epidemiology and Community Medicine, University of Ottawa
(Leave of absence, 1972-5) 1969-74

Acting Senior Analyst, Health and Welfare Division, Statistics Canada, Ottawa, 1968-69

Statistician, Health and Welfare Division, Statistics, Canada, Ottawa, 1967-68

Academic Appointments

- Deputy Chair, Council of Health Sciences, University of Toronto (2009-10)
- Member, Neurosciences Leadership Committee, Emory University (2008)
- Woodruff Health Sciences Strategic Plan Steering Committee, Vision 2012, Emory
University (2005-6)
- Medical Sciences Discovery Subcommittee, Medical Curriculum Planning Committee,
Emory University (2005-6)
- Research Advisory Committee, Emory University (2003-8)
- Associate Director, Population Sciences and Cancer Control, Winship Cancer
Center, Emory University (2002-8)
- Executive Leadership Committee, Winship Cancer Institute, Emory University (2003-8)
- Member, Judicial Committee, University of Minnesota (1995-8)
- Policy Council, School of Public Health, University of Minnesota (1995-9)
- Chairman, Health Sciences Policy and Review Council, University of Minnesota (1995)
- Advisory Committee, Tulane University School of Public Health, Environmental Center
Development Grant (1994-5)
- Chairman, Appointments, Promotions and Tenure Committee, School of Public Health,
University of Minnesota (1993-5)

- Faculty Consultative Committee, School of Public Health, University of Minnesota (1992-3)
- Appointments Promotions and Tenure Committee, School of Public Health, University of Minnesota (1992-4)
- Chairman, Graduate Faculty Nominations Committee, University of Minnesota (1990-3)
- Co-Chairman, Faculty Consultative Committee, School of Public Health, University of Minnesota (1990-2)
- Advisory Committee, Johns Hopkins School of Hygiene, Environmental Health Center (1990-6)
- Health Sciences Policy and Review Council, University of Minnesota Graduate School (1989-94)
- Internal Review Committee, School of Public Health, University of Minnesota (1989)
- Task Force on Industry / School of Public Health Relationships, University of Minnesota (1989)
- Advisory Committee, Environmental Epidemiology Training Program, Mount Sinai Medical Center of New York (1988-93)
- Administrative Council, School of Public Health, University of Minnesota (1987-90)
- Faculty Senate, University of Minnesota (1987-90)
- Appointments, Promotions and Tenure Committee, School of Public Health, University of Minnesota (1986-90)
- Advisory Committee, Immunodeficiency and Cancer Registry, Department of Pathology, University of Minnesota (1984-6)
- Steering Committee, Cariology Training Program School of Dentistry, University of Minnesota (1984-6)
- Appointments, Promotions and Tenure Committee, School of Public Health, University of Minnesota (1981-3)
- Member, Planning Committee, Graduate Summer Session in Epidemiology, University of Minnesota / University of Michigan (1983-5)
- Research Advisory Committee, Department of Family Practice and Community Health, University of Minnesota (1983-97)
- Administrative Council, School of Public Health, University of Minnesota (1983-6)
- Faculty Senate, University of Minnesota (1983-6)
- Faculty Consultative Committee, School of Public Health, University of Minnesota (1982-3)
- Faculty Advisor, Council of Graduate Students, University of Minnesota (1983-4)
- Constitutional Review Committee, School of Public Health, University Minnesota (1982)
- Research Committee, School of Public Health, University of Minnesota (1982-3)
- Educational Policy Committee, School of Public Health, University of Minnesota 1980-3
- Committee on Committees, School of Public Health, University of Minnesota 1980-2
- Planning Council, School of Public Health, University of Minnesota (1978-1981)

- Grievance Committee, School of Public Health, University of Minnesota (1977-1980)
- Executive Subcommittee on Policy, Use of Human Subjects in Research, University of Minnesota (1977-1980)
- Research Committee, School of Public Health, University of Minnesota (1977-1980)
- Space Planning Committee, School of Public Health, University of Minnesota (1977-9)
- Committee on the Use of Human Subjects in Research, University of Minnesota (1976-1984)

Advisory Appointments

- Member, Early Detection, Quality of Life Outcomes Workgroup, American Cancer Society (2010-)
- DRI Chronic Disease Indicators, Institute of Medicine (2009)
- Incidence and Mortality Committee, American Cancer Society (2008-9)
- Member, Colorectal Clinical Studies Group Review, National Cancer Research Institute, UK (2008)
- Member, Awards Committee, American College of Epidemiology (2007-10)
- Chair, Review Committee, Health Promotion and Disease Prevention Research Centers, Special Interest Project Supplements, CDC (2007)
- Member, Joint Colorectal Cancer Screening Guidelines Review Committee American Cancer Society (2006-8)
- Chair, Review Committee, Determinants of Receiving Radiation Therapy after Breast Conserving Surgery Among Low Income Women, CDC (2006)
- Member, National Academy of Sciences, Review of DOE Worker Studies (2005-6)
- Chair, Special Emphasis Panel, National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention (2005)
- Colorectal Cancer Roundtable, Chemoprevention and Emerging Technologies Task Force, American Cancer Society (2003-8)
- Chairman, Health Effects Panel, CH2M Hill, Hanford, WA (2003-5)
- Breast and Cervical Cancer Early Detection and Control Advisory Committee, Centers for Disease Control and Prevention (1999-2000)
- Chairman, Scientific Advisory Committee on Brain Cancer Cluster, Stillwater, Minnesota, (1995-6)
- Chairman, Koch Refinery Task Force, Pine Bend, Minnesota (1994-6)
- State Preventive Health Advisory Committee, Minnesota Department of Health (1993-8)
- Chairman, Scientific Advisory Committee, American Forest and Paper Association (1991-8)
- Air Toxics Technical Advisory Committee, Minnesota Pollution Control Agency (1990-2)
- Grants Committee, Minnesota Association of Public Teaching Hospitals (1991-3)
- Consultant, "Colorecord Study" (Fox Chase Cancer Center) (1988-92)
- Consultant, "General Electric Advisory Group for PCB Studies" (1988-90)
- Chairman, Highland Park - Ford Motor Company Task Force (1987-9)

- Biometry and Epidemiology Contract Review Committee, National Cancer Institute (1986-90)
- Education Committee, American College of Epidemiology (1986-9)
- Governing Council, American Public Health Association (1986-7)
- International Affairs Committee, American College of Epidemiology (1984-7)
- Co-chairman, Task Force on Examinations, American College of Epidemiology (1983-5)
- Executive Committee, Society for Epidemiologic Research (1980-3)
- Consultant, U.S. Air Force Study of Agent Orange (1980-2)
- Epidemiology Section, Program Planning Committee, American Public Health Association (1980-1)
- Chairman, Breast Cancer Detection Task Force, Minnesota Health Department (1976-80)
- Epidemiology Committee, American Cancer Society (1974-80)

Editorships and Editorial Review Boards

- Associate Editor, Journal of Medical Screening (2009-)
- Editorial Committee, Journal of Medical Screening (2007-9)
- Associate Editor, American Journal of Epidemiology (1992-7)
- Chairman, Editorial Board, Health and Environment Digest (1986-93)

Professional Affiliations

- American College of Epidemiology
- American Public Health Association