

CURRICULUM VITAE

NAME: Dr. Syed Abdus SATTAR

WORK ADDRESS:

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QUALIFICATIONS:

Degree or Certification	Date	Institution
B.Sc. (Microbiology & Zoology)	1958	Univ. of Karachi, Karachi, Pakistan
M.Sc. (Microbiology)	1960	Univ. of Karachi
Diploma in Bacteriology	1962	Univ. of Toronto, Toronto, ON, Canada
M.S. (Virology)	1964	Univ. of Toronto
Ph.D. (Virology)	1967	Univ. of Ottawa, Ottawa, ON, Canada

TEST FACILITY MANAGER

Experienced as site/test facility manager for studies to comply with Good Laboratory Practices (GLP).

PROFESSIONAL AFFILIATIONS:

Title	Affiliation since	Organization
Registered Member	June 1979	Can. College of Microbiologists
Fellow	April 2000	American Acad. Microbiology
Fellow	Dec. 2009	Academy of Hygiene Scientists
Assoc. Member	May 1999	International Forum on Home Hygiene (IFH)
Assoc. Member	May 2008	Food & Environ. Virology Network
Member	Jan. 2009	Food & Environ. Parasitology Network
Assoc. Member	Mar. 2009	International Federation of Infect. Control (IFIC)
Member	May 2010	Centre for Res. on Emerg. Pathogens, Univ. of Ottawa

HONORS AND AWARDS:

Title	Date(s)	Purpose or service
1. Merit Award, Univ. of Karachi	Aug. 1958	First position in B.Sc. final exam
2. Merit Award, Univ. of Karachi	Aug. 1960	First position in M.Sc. final exam
3. Colombo Plan Scholarship, Govt. of Pakistan	Sept. 1961- Aug. 1964	For higher education in Canada
4. Studentship, Defense Research Board of Canada	Sept. 1964 Aug. 1967	Graduate studies at Univ. of Ottawa, Ottawa, ON, Canada
5. International Fellowship of Natural Sci. & Engr. Res. Council (NSERC)	Nov. 15- Nov. 28,	Visit & give lectures at environmental virology labs. In France

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| | 1980 | |
| 6. International Fellowship, UN Development Program | Jan. 2 – Apr. 9, 1981 | Initiate research on environmental virology at Univ. of Karachi, Karachi, Pakistan |
| 7. National Talent Pool Ministry of Labor, Govt. of Pakistan | Dec. 1985 – Jan. 1986 | Establish research in applied virology at Pakistan Council of Sci. & Industrial Research, Karachi |
| 8. Internat. Airport Projects, Ministry of Defense, Govt. of Saudi Arabia | Aug. 17 – Sept. 14, 1984 | Participate in an international study on the etiology of respiratory tract infections in the pilgrims to Mecca |
| 9. Community Services Award | June 1989 | Presented by Canada-Pakistan Assoc. of Ottawa-Hull for outstanding services to promote Canada-Pakistan co-operation. |
| 10. Voluntary Services Award, Govt. of Ontario | May 1988 | 15 years of voluntary service to the community |
| 11. R. Gross Memorial Award | Oct. 1992 | Memorial Lecture by Maureen Best, M.Sc. student, at Ann. Meeting of the Am. Biol. Safety Assoc., San Francisco, CA. |
| 12. International Fellowship, UN Development Program | Dec. 15 – 30, 1995 | Update microbiology & immunology syllabi for DVM students & review need for a virus lab at Sindh Agriculture Univ., Tandojam, Pakistan |
| 13. Visiting Professorship | Aug. 15 – 31, 1996 | Advice on establishment of a new Faculty of Sci. at International Islamic Univ., Kuala Lumpur, Malaysia |
| 14. Silver Medal | Oct. 1996 | Poster with a grad. student at the Ottawa Life Sciences Conf. |
| 15. Steris Editor's Award | April 1996 | Best paper in Can. J. Infect. Control. |
| 16. R. Gross Memorial Award | Oct. 1997 | Memorial Lecture by Mary Louise Graham, M.Sc. student, at Ann. Meeting, Am. Biol. Safety Assoc., San. Diego, CA. |
| 17. Award of Excellence, Faculty of Med., Univ. of Ottawa | Nov. 1998 | Nominated & selected by peers based on evidence for a high-level of commitment to & performance in teaching & research. |
| 18. Nominated for Univ. of Ottawa's Award of Excellence in Research | May 1999 | Nominated by the department & Faculty of Medicine for sustained commitment to & productivity in research. |
| 19. International Fellowship, UN Development Program | Dec. 1, 1998 – Jan. 08, 1999 | Present a key-note address & a paper at the Internat. Conf. on Infect. Control & lecture at the Univ. of Karachi, Karachi, Pakistan |
| 20. Commemorative Medal from Johnson & Johnson Medical, Arlington, Texas | Mar. 1999 | In recognition of contributions to collaborative research & development |
| 21. Martin S. Favero Lectureship Award of Assoc. Professionals in Infect. Control & Epidemiol. (APIC) | June 2006 | Presented once in three years to an individual with outstanding & significant contributions to research in sterilization, disinfection, & antisepsis. |
| 22. Community Services Award | Aug. 2006 | Presented by Canada-Pakistan Assoc. of the National Capital Region in recognition of outstanding services to the community. |
| 23. Lifetime Achievement Award of Ottawa Centre for Research & Innovation (OCRI) | Sept. 2007 | This award is presented annually to one individual from Ottawa for significant contributions to research & innovation & for successful interactions between academics & the private sector. |
| 24. Best Poster Award in the Subtheme "Interactions between Health & the Environment" | Nov. 2007 | This study with Bureau of Microbial Hazards, Health Canada, received the award at the annual Sci. Forum, Health Canada, Ottawa, ON. |

25. Hygieia Gold Medal of The Rudolf Schülke Foundation, Hamburg (Germany). Nov. 2009 He is the first non-European to receive this medal in its 33-year history. The medal is given once in two years to a scientist who has made significant contributions in the areas of hygiene science, infection prevention & public health.

RESEARCH INTERESTS:

- Influence of environmental factors on the ability of human pathogenic viruses, bacteria, mycobacteria & protozoa to survive in drinking & recreational waters, wastewaters, biosolids, indoor air, foods as well as on animate & inanimate surfaces.
- Studying the dynamics of pathogen inactivation during disinfection of water for drinking.
- Ecology of opportunistic pathogens in water & biofilms in water distribution systems.
- Microbicides in preventing & controlling the spread of nosocomial infections.
- Development of standardized protocols to determine the virucidal, bactericidal, fungicidal, mycobactericidal & sporicidal activities of microbicides used on medical devices, environmental surfaces & human skin.
- Methods for the decontamination of biomedical waste.
- Environmental survival & microbicide inactivation of infectious bioagents.

RESEARCH FUNDING RECEIVED AS GRANTS AND CONTRACTS:

Career total of funding received >20 million dollars.

SOURCES OF FUNDING:

National, provincial & regional agencies

1. Canada Water Network
2. Canadian Institutes for Health Research (CIHR)
3. Customs & Excise Canada
4. Dairy Farmers of Canada
5. Dairy Farmers of Ontario
6. Employment & Immigration Canada
7. Environment Canada
8. Health Canada (National Hlth. Res. Develop. Program, Bureau of Nonprescription Drugs, Environ. Hlth. Centre)
9. Medical Research Council of Canada
10. Ont. Ministry of Environment & Energy
11. Ont. Ministry of Health
12. Ont. Ministry of Natural Resources
13. Ont. Ministry of Agriculture & Food
14. Ont. Research & Development Challenge Fund (ORDCF)
15. Regional Municipality of Ottawa-Carleton (Ottawa, ON)
16. Royal Canadian Mounted Police (RCMP)
17. Saskatchewan Environment,
18. Water Environ. Assoc. of Ontario (Toronto, ON)

International

1. American Water Works Assoc. Research Foundation (Denver, Colorado)
2. Canadian International Development Agency (Ottawa, ON)
3. European Commission (Brussels, Belgium)
4. International Development Research Centre (Ottawa, ON)
5. NSF International (Ann Arbor, Michigan)
6. Organization for Economic Cooperation & Development (Paris, France)
7. U.S. Environmental Protection Agency (EPA)
8. World Health Organization

Private sector (examples of grants, research study contracts & consulting)

3M Co., St. Paul, MN
 Antiseptica (Cologne, Germany)
 Atlas Graham (Winnipeg, MB)
 Baxter Corp. (Toronto, ON)
 BHT North America (Toronto, ON)
 BODE Chemie (Hamburg, Germany)
 Breathefree Technologies (Toronto, ON)
 Clorox (Pleasanton, CA)
 Colgate-Palmolive Corp. (Piscataway, NJ)
 DEB Group, Paris, France
 Dial Corp. (Scottsdale, AZ)
 Ecolab (St. Paul, MN)
 EnviroSystems (San Francisco, CA)
 Fresenius (Bad Homburg, Germany)
 GeoMedica (Toronto, ON)
 GOJO Industries (Akron, OH)
 Hydro-Biotech (Montreal, QC)
 Johnson & Johnson Medical (Arlington, TX)
 JohnsonDiversey (Racine, WI)
 Kimberly-Clark (Roswell, GA)
 Metrex (Parker, CO)
 Monnol (Paris, France)
 NQ Environmental (Toronto, ON)
 Nova International (Montreal, QC)
 Procter & Gamble (Cincinnati, OH)
 Reckitt Benckiser (Montvale, NJ)
 S.C. Johnson (Racine, WI)
 Schülke & Mayr (Hamburg, Germany)
 Sterilox (Philadelphia, PA)
 Steris (Mentor, OH & St. Louis, MO)
 Syncrude Canada (Fort McMurray, AB)
 Taro Pharm (Toronto, ON)
 Umedik Inc. (Toronto, ON)
 UMF Corp. (Chicago, IL)
 Vanguard Systems (London, ON)
 Virox (Oakville, ON) – Member Board of Directors
 World Dryer (Chicago, IL)

TEACHING:

Institution	Courses taught	Period
Dept. of Microbiol., Univ. of Karachi, Pakistan	Microbiol. lectures & labs. for B.Sc. & M.Sc. students	Sept. 1960 to Oct. 1961
Dept. of Microbiol., Univ. of Karachi	Viol. & bacterial. lectures & labs. for M.Sc. students	Sept. 1960 to Oct. 1961
Dept. of Microbiol., School of Hygiene, Univ. of Toronto, Canada	Virology labs. for Diploma in Bacteriology students	Sept. 1962 to May. 1964
Dept. of Microbiol., Faculty of Medicine, Univ. of Ottawa	Microbiology labs. for medical students	Sept. 1964 to May 1967
Dept. of Microbiol., Univ. of Karachi, Pakistan	Lectures & labs. in virology for B.Sc. & M.Sc. students	Jan. 1968 to May 1970
Dept. of Microbiol. & Immunol., Faculty of Medicine, Univ. of Ottawa	Microbiol. lectures & labs. for medical students	Sept. 1970 to May 1992
Dept. of Microbiol. & Immunol., Faculty of Medicine, Univ. of Ottawa	Microbiol. lectures for nursing students	Sept. 1988 to April 1995

Dept. of Biochem., Microbiol. & Immunol., Faculty of Med., Univ. of Ottawa	Virology & bacteriology courses to graduate students	Sept. 1973 to Dec 2000
Dept. of Biochem., Microbiol. & Immunol., Faculty of Med., Univ. of Ottawa	Tutor in problem-based learning for first year medical students	Sept. 1992 to Nov 2000
Dept. of Biochem., Microbiol. & Immunol., Faculty of Medicine, Univ. of Ottawa	Lecturer in a graduate course on "Advanced Topics in Health-Related Environ. Microbiol." [#]	Jan. to April, 2007
Dept. of Biochem., Microbiol. & Immunol., Faculty of Med., Univ. of Ottawa	Lecturer in an undergrad./grad. course on "Pathogens & the Environment" [#]	Sept. to Dec., 1997
Environ. Sciences Program	Lecturer in an undergrad. course on "Environ. Microbiology"	Jan. 2000 to April, 2007
Dept. of Biochem., Microbiol. & Immunol., Faculty of Med., Univ. of Ottawa	Lecturer in an undergrad./grad. course on "Pathogens & the Environment" [#]	Sept. to Dec., 2007

[#] These two courses were introduced by me & I also did most of the teaching in them.

LIFETIME SUMMARY OF SCIENTIFIC PUBLICATIONS & PRESENTATIONS:

Books:	2
Monographs:	4
Course & procedures manuals:	4
Theses:	2
Papers in peer-reviewed journals:	138
Papers in non-peer-reviewed journals:	9
Papers in conference proceedings:	43
Chapters in books:	26
Technical reports: (Hlth. Canada, Environ. Canada, WHO, Govt. of Ontario, U.S. EPA, International Develop. Res. Centre, various national & multi-national companies, etc.)	200
Commissioned reviews:	14
Invited presentations: (delivered at Australia, Austria, Bangladesh, Belgium, Brazil, Bulgaria, Canada, Caribbean, Chile, Croatia, England, France, Germany, Hong Kong, Hungary; India, Japan, Kenya, Malaysia, Malta, Macau, Mexico, Pakistan, Portugal, Russia, The Netherlands, Saudi Arabia, Singapore, Spain, Switzerland, U.S.A.)	302
Presentations at scientific meetings:	177

LIFE-TIME SUMMARY OF TRAINING OF STUDENTS, POST-DOCS AND OTHERS (since 1976):

Masters students	18
Ph.D. students	7
Post-doctoral fellows	12
Research trainees	43
Fourth year Honors students	7
Undergrad. students from France	7
Summer students	50
High school co-op students	25

GRADUATE STUDENTS TRAINED:

1.	Name	Degree	Period (Funding source)
2.	Sami Ramia	Ph.D.	1976-1980 (Health Canada)
3.	Khalid Ijaz	Ph.D.	1982-1985 (WHO)
4.	Nellie Lloyd-Evans	M.Sc.	1983-1985 (IDRC scholar, The Gambia)
5.	Roderick Raphael	M.Sc.	1981-1984 (Health Canada)
6.	Yasmin Karim; co-supervisor Dr. C.M. Johnson-Lussenburg	M.Sc.	1984-1986 (Health Canada)
7.	Kishna Kalicharran	M.Sc.	1990-1992 (Agriculture Canada)
8.	Shamim Ansari	Ph.D.	1988-1991 (Govt. of Pakistan scholar)

9.	John Mbithi	Ph.D.	1988-1993 (CIDA scholar from Kenya)
10.	Maureen Best	M.Sc.	1991-1993 (on study leave from Health. Canada)
11.	Chi Leong Loh	Ph.D.	1989-1993 (IDRC scholar from Malaysia)
12.	Sabah Bidawid; co-supervisor Dr. Jeff Farber	Ph.D.	1992–1999 (Health Canada)
13.	Lindsay Elmgren; co-supervisor Dr. A. Wandeler	Ph.D.	1994–1998 (Agriculture Canada)
14.	Mary Louise Graham	M.Sc.	1994-1997 (on leave from Health Canada)
15.	Marianne Heisz	M.Sc.	1995-1997 (AwwaRF)
16.	Kerry Nolan	M.Sc.	1995-1997 (AwwaRF)
17.	Laura Maxwell; co-supervisor Dr. A. Wandeler	M.Sc.	1996-1999 (Ont. Min. Natural Resources)
18.	Ahmed Abu Zafer	M.Sc.	1997-1999 (Miscellaneous)
19.	Diane Medeiros; co-supervisor Dr. J. Farber	M.Sc.	1999 - 2001 (Health Canada & Govt. of Ontario)
20.	Teresa Brooks	M.Sc.	Sept., 2000 – October 2001 (AwwaRF)
21.	Omokhaye Ogbemor; co-supervisor Dr. A. Wandeler	M.Sc.	1999 – 2002 (Can. Food Inspection Agency)
22.	Fernando Matias	M.Sc.	Jan. 2004 – May 2007 (Ont. Res. Develop. Challenge Fund)
23.	Hamid Reza Salsali, co-supervisor with Dr. W. Parker, Carleton Univ.	Ph.D.	Sept. 2002 – continuing (Ont. Res. Develop. Challenge Fund)
24.	Miles Majcher, co-supervisor with Kathy Bernard, Univ. of Manitoba (Winnipeg, MB)	M.Sc.	Sept. 2004 – May 2007 (CRTI project)
25.	Susan Marthaler, co-supervisor with Dr. Thien-Fah Mah	Ph.D.	May 2005 – Dropped out for family reasons (Ont Res. Develop. Challenge Fund)
26.	Dawn Jurgens, co-supervisor with Dr. Thien-Fah Mah	M.Sc.	Sept. 2005 – Sept. 2007 (Ont. Res. Develop. Challenge Fund)
27.	Ivy Liu, co-supervisor with Dr. Danielle Fortin, Earth Sciences, Univ. of Ottawa	M.Sc.	Sept. 2006 – Sept. 2008 (Inter-faculty research fund, Univ. of Ottawa)
28.	Safaa Sabbah	M.Sc.	Sept. 2006 – Mar. 2009 – (CRTI project)

POST-DOCTORAL FELLOWS:

	Name	Title of Project	Period	Current Position
1.	M. Chaudhuri	Coal-based sorbents for virus removal from potable water	1986-1987	Retired from Indian Institute of Tech., Kanpur; now a visiting professor in Malaysia
2.	Christian Chauret	<i>Cryptosporidium</i> & <i>Giardia</i> in water	1993-1997	Assoc. Prof., Indiana Univ., Kokomo, IN, U.S.A.
3.	Yvonne Taylor	Mycobacteria in water	1994-1999	Retired
4.	Serge Riffard	Ecological study of Legionella in ground water	1998-2000	Assoc. Prof. of Biology & Vice-Rector, External Relations, Univ. of St. Etienne, France
5.	Ousmane Traoré	Survival & disinfection of <i>Candida</i>	2000-2001	Assoc. Prof., Univ. of Clermont-Ferrand, France
6.	Justo Perez	Bacterial spores	2002-	CREM
7.	Adrian Unc	Land disposal of biosolids	2002-	Assistant Prof., New Mexico State Univ., Las Cruces, NM, U.S.A.
8.	Mayra Rodriguez	<i>In vivo</i> studies on antibiotic-based topicals	2003-	CREM
9.	Reza Nokhbeh	Bacterial resistance to disinfectants in drinking water	2004-	CREM

10.	Deepak Sharma	Biofilms	2005-2007	Brightwell Tech., Ottawa, ON
11.	Sinisa Vidovic	Viruses in groundwaters	2008-2009	Can. Water Network
12.	Mahmoud Aly	Viruses in municipal wastes	2008-	Ont. Ministry of the Environment
13.	Rasha Maal-Bared	Mycobacteria in water systems	2009-	Broad Foundation, California, U.S.A.

TRAINING OF VISITING SCIENTISTS (since 1986):

	Name	Affiliation	Research area	Period
1.	Simin Abrishami	NSF International, Ann Arbor, MI	Protocol for testing of virucides	Mar. 1991
2.	Jamie Naranjo	Univ. of Arizona, Tucson, AZ	Hepatitis A virus culture & quantitation	May 1992
3.	Dr. Rich Prince	Gibraltar Labs., Fairfield, NJ	Rotavirus culture & quantitation	June 1988
4.	Zhanyun Fan	Bureau of Microbiol., Hlth. Canada	Hepatitis A virus culture & quantitation	Sept. 1992
5.	Tim Cusack	L&F Products, Montvale, NJ	Rotavirus culture & assay	Sept. 1988
6.	Karen Culleton	L&F Products, Montvale, N.J.	Protocol tests - virucides	June 1992
7.	Tina Bradley	Dudley Rd. Hosp., Birmingham, UK	Carrier tests - microbicides	Nov. 1992
8.	Julieth Dawson	Micrylium Labs., Toronto, ON	Carrier tests - microbicides	July 1996
9.	J.-Y. Maillard	School of Pharmacy, Cardiff, Wales	Carrier tests - microbicides	July 1996
10.	Shelley Unger	Ont. Ministry of Environ. & Energy, London, ON	<i>In vitro</i> excystation of <i>Cryptosporidium parvum</i>	Nov. 1996
11.	Suzie Walsh	Wales School of Pharmacy, Cardiff, Wales	Carrier tests - microbicides	May 1997
12.	Karen Longstaff	Therapeutic Goods Admin., Canberra, Australia	Carrier tests - microbicides	May 1997
13.	M. Shahabuddin	Dept. of Microbiology, Univ. of Karachi, Karachi, Pakistan	<i>In vitro</i> excystation of <i>Giardia muris</i> & <i>Cryptosporidium parvum</i>	May 1997
14.	Emily Martin	Dept. of Pathobiology, Univ. of Guelph, ON	Carrier tests - microbicides	Feb. 1998
15.	Susan Barbie	Infection Control Dept., Univ. of North Carolina, Chapel Hill, NC	Carrier tests - microbicides	July 1998
16.	Nancy Sullivan	M&R Chemicals, Mississauga, ON	Carrier tests - microbicides	Sept. 1998
17.	Dr. G. McDonnell	Steris Corp., Mentor, OH	Sporicidal test method	April 1999
18.	Vivian Gorgis	Germiphene, Inc., Brantford, ON	Sporicidal test method	Oct. 1999
19.	Jackie Collins	Procter & Gamble Co. Cincinnati, OH	Virus quantitation	Dec. 2000
20.	Dr. J. Gebel	Univ. of Berlin, Germany	Carrier tests - microbicides	Jan., 2000
21.	Dr. Goroncy-Bernes	Schülke & Myer, Hamburg, Germany	Carrier tests - microbicides	Jan., 2000
22.	Jacqueline Brabants	Microbiology, Univ. of New Hampshire, NH	Rotavirus plaque assay	Dec. 2000
23.	Heidi Reeb	Procter & Gamble Co., Cincinnati, OH	Carrier tests for microbicides	Mar. 2001
24.	Dr. Barry McNamara	Procter & Gamble Co., Cincinnati, OH	Carrier tests for microbicides	Mar. 2001
25.	Sara Grant	Germiphene Corp., Brantford, ON	Carrier tests for microbicides	May 2001
26.	Jim McDowell	BioScience Labs., Bozeman, MT	Fingerpad & carrier tests for microbicides	June 2001
27.	Dr. Khalid Ijaz	MicroBiotest, Sterling, VA	Carrier tests for microbicides	June 2001
28.	Naeem Malik	Health Canada, Ottawa, ON	Calicivirus culture	Feb. 2002

29.	Jim McDowell	BioScience Labs., Bozeman, Montana	Fingerpad & carrier tests for microbicides	June 2002
30.	Carla Weisant	BioScience Labs., Bozeman, MT	Fingerpad & carrier tests for germicides	June 2002
31.	Dr. Howard Cash	Lonza, Clinton, NJ	Carrier tests for microbicides	Sept. 2002
32.	Kelli Buckingham-Meyers	Center for Biofilm Engr., Montana State Univ., Bozeman, MT	Carrier tests - microbicides	May 2003
33.	Mr. M. Garbutt	Hlth. Canada, Winnipeg, MB	Carrier tests - microbicides	May 2003
34.	Linda Loetterle	Center for Biofilm Engr., Montana State Univ., Bozeman, MT	Carrier tests - microbicides	May 2003
35.	Kyle Smith	Reckitt Benckiser	Carrier tests - microbicides	Sept. 2003
36.	Melanie Coté	Emergency Response, Hlth. Canada, Ottawa, ON	Carrier tests - microbicides	Oct. 2003
37.	Chloé Geller	Univ. of Lyon, Lyon, France	Carrier tests - microbicides	Jan.-June 2004
38.	Dr. Kate Bellamy	Unilever, Port Sunlight, England	Hepatitis A virus assay	May 2004
39.	Miles Majcher	NML, Hlth. Canada, Winnipeg	Carrier tests - microbicides	June 2004
40.	Jay Krishnan	Hlth Canada, Winnipeg, MB	Carrier tests - microbicides	June 2004
41.	Dr. Peter Lee	Umedik, Toronto, ON	Fungicidal activity of microbicides	May 2003
42.	Dr. David Macinga	GOJO, Akron, Ohio	Hand antisepsis	Jan 2005
43.	Yuxia Bo	Govt. of China	Carrier tests for microbicides	April 2006-June 2007
44.	Prof. Regina (Kelly) Keller	Universidade Federal do Espírito Santo, Vitória - ES - Brasil	Environ. virology	April 2007
45.	Stephanie Buettgen	University of Bonn, Bonn, Germany	Testing of sporicides	Oct. 2008
46.	Mikeisha Boyd	Virox Technologies, Oakville, ON	Testing of disinfectants	June 2009
47.	Ms. M. Pryor	Pinellas County, FL	Protozoa in biofilms	May 2010
48.	Katrine Dupuis	Civil Engr., Univ. of Ottawa	DGGE technique	June 2010
49.	Dr. R. Delatolla	Civil Engr., Univ. of Ottawa	DGGE technique	June 2010

PROFESSIONAL DEVELOPMENT COURSES:

1. *Laboratory Biosafety: Principles & Practices*: a WHO-approved two-day lecture course for those working with infectious agents in lab settings. Course organized by **S.A. Sattar** with the assistance of Mrs. M.E. Kennedy & Mr. Jason Tetro & offered once a year by CREM.
2. *The Need, Testing & Applications of Chemical Germicides* (May 1999). A one-day lecture course designed for Virox Technologies, Inc. by **S.A. Sattar** with the assistance of Mr. Jason Tetro & offered by CREM.
3. *Conventional & New Sterilization Technologies: Principles & Practice* (to be offered in July 2000): A three-day lecture course organized by **S.A. Sattar** in collaboration with Mr. C. Hancock of EHW Technology, Rochester, New York, & offered by CREM.

MEMBERSHIP IN SCIENTIFIC SOCIETIES:

1. American Soc. for Microbiology
2. ASTM International
3. American Water Works Assoc.
4. Assoc. for Professionals in Infection Control & Epidemiology (APIC)
5. AOAC International
6. Canadian Assoc. for Clinical Microbiology & Infectious Diseases (CACMID)
7. Canadian Assoc. on Water Pollution Res. & Control
8. Canadian Soc. of Microbiologists

9. Community & Hosp. Infection Control Assoc. of Canada (CHICA)
10. Hosp. Infection Soc.
11. International Assoc. on Water Quality (IAWQ)
12. Pakistan Soc. for Microbiology
13. Soc. for Applied Microbiology

ORGANIZATION OF WORKSHOPS, SYMPOSIA AND LECTURES (since 1975):

1. Organized (1975-1976) a one-day symposium on "Health Hazards of Viruses in the Environment" at the Faculty of Medicine, Univ. of Ottawa, Ottawa, ON.
2. Organized (1978) the Microbiology Exhibit entitled "Microbes - Friend & Foe" the Open House held at the Faculty of Health Sciences, Univ. of Ottawa, on Oct. 27-28, 1978.
3. Member (1981-1982) Organizing Committee for international symposium on "International Co-operation & Development", held at the Univ. of Ottawa.
4. Member (1982) Organizing Committee for a symposium on "The Role of Expatriates in International Development", held at the Univ. of Ottawa.
5. Organized (June, 1985) a one-day workshop on "Waterborne Pathogens", Biennial Meeting of the International Joint Commission on the Great Lakes, held in Kingston, ON
6. Member (June 1986-May 1987), Organizing Committee for the Ann. Conf. of the Can. Assoc. of Biol. Safety, held in Ottawa, ON.
7. Organized (Sept., 1998) a two-day professional development course on 'Biosafety in the Laboratory: Principles & Practices', given in Ottawa, ON.
8. Member (Sept. 2001-May 2002), program committee for an international Stanier Institute symposium on *Linking Hygiene to Health: Old Foes & New Challenges*, held on May 10, 2002, at the Univ. of Western Ontario, ON.
9. Organizer (October 2001) of an invited lecture by Dr. Paul Hoffman, Professor of Microbiology, Dalhousie Univ., Halifax, N.S., Canada; the lecture was co-sponsored by CREM & the Centre for Research in Biopharmaceuticals, Univ. of Ottawa, Ottawa, ON.
10. Organizer (October 2002), international symposium on *Mycobacterium avium* subspecies *paratuberculosis* & its possible association with Crohn's Disease; Ottawa, ON, Canada.
11. Organizer (June 2003), one-day international symposium on *The Changing Profile of Food-& Waterborne Pathogens*, Univ. of Ottawa, Ottawa, ON, Canada.
12. Organizer (April 2004), one-day workshop on *Environmental Survival, Detection & Inactivation of Bioagents*, Canada Customs & Revenue Agency, Ottawa, ON, Canada.
13. Member (June 2003-Dec. 2005), organizing committee for a symposium on microbicides at PacifiChem 2005, Honolulu, Hawaii.
14. Member (June-Oct. 2004), organizing committee for an ASTM International symposium on *Over-the-Counter Topicals: Assessing the Need for Testing & Label Claims against Viruses*, to be held on Oct. 08, 2004, in Washington, D.C.
15. Member (July 2006) organizing committee for an international symposium on *Advanced Disinfectants & Safety Techniques Applied in Pathogen Treatment* held in Kirov, Russia, on July 25-26, 2006.
16. Member (Sept. 2006-April 2007), organizing committee for the First International Conference on *The role of the environment in the interface between microorganisms & humans*, held in Saint Etienne, France, on April 13, 2007.
17. Member (June 2006-May 2007), co-convener of a symposium on *Perspectives of the Microbial World* (in memory of Roger Stanier), held at the annual general meeting of the Am. Soc. Microbiol. in May 2007 in Toronto, ON.
18. Member (Oct. 2006-May 2007). Planning & organizing committee for a one-day international symposium on *Biofilms in Medicine & the Environment*, held in Ottawa, ON.
19. Co-Sponsor (June 2007). First Stanier Institute/Brock Univ. symposium on Hygiene Sci., Hamilton, ON.
20. Member (Since Jan. 2007). Planning committee for the First International Symposium on Biosafety, held in Montreal, QC, in Nov 2007.

ILLUSTRATIONS & DATA REPRODUCED IN TEXTBOOKS:

1. *General Microbiology* (2nd. Edition), R.F. Boyd, Times Mirror/Mosby College Publishing, Toronto, ON,

1988. Monolayer with plaques of a human rotavirus (reproduced from our paper in *J. Clin. Microbiol.* 10:609, 1979).
2. *Understanding Biology*, D. Galbraith *et al.*, John Wiley & Sons, Toronto, ON, 1989. (Photograph of water river water concentration for viruses). This textbook is presently recommended for use in Canadian high schools.
 3. *Disinfection, Sterilization, & Preservation* (4th Edition), S.S. Block, Lea & Febiger, Philadelphia, PA., 1991. Table with efficacies of chemical disinfectants against hepatitis A virus (reproduced from our paper in *Appl. Environ. Microbiol.* 56: 3601, 1990).

COVERAGE ON RESEARCH IN PERIODICALS & NEWSLETTERS (since 1990):

1. *Canadian Sci.*, Can. Sci. News Service, Toronto, ON (Jan. 1990): IDRC-supported India-Canada research on the development of low-cost filters for drinking water.
2. *Physician's Weekly*, Whittle Communications, New York, NY (Oct. 1990): Resistance of hepatitis A to chemical disinfectants.
3. *Infect. Dis. in Children*, Slack Inc., Thorofare, NJ (Nov. 1991): Chemical disinfection for preventing & controlling outbreaks of rotaviral gastroenteritis.
4. *Pediatric Management*, Dowden Publishing Co., Montvale, NJ (Nov. 1991): Chemical disinfection for preventing & controlling outbreaks of rotaviral gastroenteritis.
5. *AIDS Alert*, Am. Hlth. Consultants, Atlanta, GA (Aug. 1991): Review on survival & disinfection of HIV.
6. *Hosp. Infect. Control Newsletter*, Am. Hlth. Consultants, Atlanta, GA (Sept. 1991): Review on survival & disinfection of HIV.
7. *Infect. Dis. Watch*, Slack Inc., Thorofare, NJ, (Feb. 1992): Chemical disinfection for preventing & controlling outbreaks of rotaviral gastroenteritis.
8. *Am. J. Infect. Control* (Feb. 1992), Assoc. for Professionals in Infect. Control & Epidemiology: Review on survival & disinfection of HIV.
9. *Ont. Medicine*, Ont. Med. Assoc., Toronto, (April 1992): Infection control through chemical disinfection.
10. *Can. Med. Assoc. J.*, CMA, Ottawa, ON, (Oct. 1993): Prevention & control of outbreaks of rotaviral gastroenteritis through disinfection & antiseptics.
11. *Infect. Dis. In Pediatrics*, Slack Inc., Thorofare, NJ, (Spring 1995): Prevention strategies help protect children from environmental contaminants.
12. *Research Perspectives* (Spring 1999). Developing environmentally friendly germicides. Newsletter of the Office of the Vice-Rector Research, Univ. of Ottawa.
13. *Health News* (Sept. 1999). Take a common-sense approach to cleanliness. Univ. of Toronto's Faculty of Medicine, Toronto, ON.

PUBLIC/PROFESSIONAL EDUCATION AND COMMUNITY SERVICE:

1. Newspaper articles on human pathogenic viruses & on the human health impact of viral pollution of drinking & recreational waters.
2. Statements/interviews for regional, national/international print & electronic media on public health significance of our research & on importance of research funding in general in Canada.
3. Chairman (1985-1988), Committee on Sci. & Tech., Canada-Pakistan Assoc. of Ottawa-Hull.
4. Judge (Mar. 1985; Mar. 1986), Sci. Fair, Henry Munro School, Gloucester, ON.
5. Judge (May 1985), Canada-Wide Sci. Fair for school students, Cornwall, ON.
6. Lecture on 'Viruses & our health' (Nov. 1985; Nov. 1986; Nov. 1987; Nov. 1988; Nov. 1989), as a part of Career Week, Henry Munro School, Gloucester, ON.
7. Advisor (since 1983), 6 school students in the selection & preparation of science projects.
8. Participant (April 1993) in 'Shadow Day', Career Week, for 4 Grade 8 students from Henry Munro Middle School, Gloucester, ON.
9. Keynote Speaker (June 1994), annual dinner, Univ. of Karachi Alumni Assoc., Toronto, ON.
10. Keynote Speaker (Oct. 1994), annual meeting, Assoc. of Professionals, Engineers & Scientists of North America, Santa Clara, CA.
11. Co-Founder (June 2001) with Mr. Paul Webber, WebberTraining's Teleclass series with state-of-the-art presentations for infect. control professionals. Separate series now run in North America, Europe and Asia-Pacific (www.webbertraining.com).

EDITORIAL, REVIEW OF MANUSCRIPTS & RESEARCH PROPOSALS (Since 1976):**Editorial**

1. Associate Editor (since Jan. 1985), *International J. of Sci. & Tech.*, Washington, DC, USA.
2. Member (since June 1999), International Editorial Board, *J. Trop. Microbiol.*
3. Member (since 2000), Pakistan J. Microbiol.
4. Member (since July 2000), Editorial Board, *Am. J. Infect. Control*
5. Member (Jan. 2004 to June 2007), Editorial Board, *Infect. Control & Hosp. Epidemiol.*
6. Member (since July 2005), Scientific Advisory Board, *Hygiene & Medizin*
7. Member (since Nov. 2005), Editor Board, *International J. Infect. Control*
8. Guest co-editor (June 2010), Am. J. Infect. Control's supplement on 'Designing & Maintaining a Clean Environment', Vol. 38 (5).

Review of manuscripts for:

1. Am. J. Infect. Control
2. Antimicrobial Agents & Chemotherapy
3. Annals of Saudi Med.
4. Appl. Environ. Microbiol.
5. Can J. Vet. Res.
6. Can. J. Microbiol.
7. Can. J. Pub. Hlth.
8. Food Microbiol.
9. Hygiene & Medizin
10. Infect. Control & Hosp. Epidemiol.
11. International J. Infect. Dis.
12. International J. of Sci. & Technol.
13. J. Am. Water Works Assoc.
14. J. AOAC International
15. J. Infect. Dis.
16. J. Toxicol. & Environ. Hlth.
17. Pakistan J. Scientific & Industrial Research
18. Rev. of Infect. Dis.
19. Photochemistry & Photobiology

Review of research proposals for:

1. Can. Institutes of Health Res.
2. International Develop. Res. Centre (IDRC)
3. Health Canada
4. International Foundation for Sci.
5. International Polar Year
6. Med. Res. Council (MRC) of Canada
7. North Atlantic Treaty Org. (NATO)
8. Natural Sci. & Engr. Res. Council of Canada
9. Ont. Ministry of Health
10. Saskatchewan Environment
11. U.S. Food & Drug Administration
12. U.S. National Sci. Foundation
13. United Arab Emirates Univ. (Al-Ain)
14. World Health Organization
15. UK National Health Service

BOOK REVIEWS (since 2005)

1. June 2005. Proposed book on *Biostatistics & Microbiology: A Survival Manual for the Professional* by D. S. Paulson, for Springer Publishing, New York, N.Y.

2. Mar. 2005. Book on *Antisepsis, Disinfection, & Sterilization: Types, Action, & Resistance* by G. McDonnell, ASM Press, Washington, D.C.
3. Aug. 2005. Proposed book on *Disinfection & Decontamination: Principles, Applications & Related Issues* by G. Manivannan, CRC Press/Taylor & Francis Group, Novato, CA.
4. June 2006. Book 4th edition of the book *Disinfection, Preservation & Sterilization*, for Blackwell Sci. Publishers, London, England.

EXTERNAL COMMITTEES, PANELS & ADVISORY SERVICES (Since 1976):

Provincial & local/regional governments

1. Member (1977-1979), Ont. Ministry of the Environment's Steering Committee for Water Pollution Research on the Ottawa River.
2. Member (1976-1980), advisory committee on 'Microbiological quality of Recreational Waters in the Ottawa Area', Office of the Medical Officer of Health, Regional Municipality of Ottawa-Carleton.
3. Advisor (June 1984), Dept. of Public Works & Engr., City of Regina, Saskatchewan.
4. Member (Jan. 1989 - Dec. 1991) Ont. Min. of Govt. Services committee to review the design of biohazard containment facilities for the new Provincial Public Health Labs., Ottawa, ON.
5. Advisor (Mar. 1991) to the Alberta Environmental Centre on feasibility of establishing facilities to monitor indoor air for human pathogenic viruses.
6. Advisor (May 1995), Regional Municipality of Ottawa-Carleton, on sampling of air for viable microorganisms. Member (Oct. 1992), Provincial Scientific Advisory Group on 'Public Health Impact of Land-Filling & Composting of Infectious Waste'.
7. Member (Spring 1993), Microbiology review panel for Ont. Graduate Scholarships.
8. Chair (Spring 1994 & 1995), Microbiology review panel for Ont. Graduate Scholarships.
9. Advisor (May 1995), Regional Municipality of Ottawa-Carleton, on land disposal of biosolids.
10. Member (Nov. 1995), Panel of experts at the public forums on land disposal of treated municipal biosolids, Regional Municipality of Ottawa-Carleton, Gloucester, ON
11. Advisor (1998), Calgary Regional Health Authority on use of chemical microbicides in infection control.
12. Advisor (April 2001), Calgary Regional Health Authority on the use of chemical germicides in infection control (contact Jill Pollock).
13. Advisor (May 2010), OC Transpo on microbicidal coatings for surfaces inside conveyances (contact Paul Belloni).

Federal governmental and non-governmental agencies in Canada

1. Member (Nov. 1977), Health & Welfare Canada's panel of experts to review research funding on virological quality of drinking water in Canada.
2. Member (Aug. 1984), Can. Fed. Environ. Assess. Rev. Office's panel to review proposed Snowshoe Bay development project & its possible impact on microbiological quality of water in Indian Bay, MB.
3. Advisor (April 1989) for the revision of the 'Viruses' portion of Health Canada's Guidelines for Canadian Recreational Water Quality.
4. Advisor (Aug. 1988-July 1992), Bureau of Nonprescription Drugs, Health Canada, to review submissions of chemical disinfectants for registration.
5. Consultant (July 1988 to Mar., 1991), Customs & Excise Canada, to review microbicidal potential of domestic washing & cleansing products.
6. Member (May 1991), Environment Canada's expert committee for establishment of guidelines for listing of microorganisms on Domestic Substances List under Canadian Environ. Protection Act.
7. Advisor (July 1993), Agriculture Canada, Lethbridge, Alberta, on the selection & use of chemical disinfectants for biohazard containment.
8. Member (1992-1994), Panel on St. Lawrence River Ecosystem Res., Tri-Council Green Plan.
9. Consultant (1993-1995), research study on indoor air quality & human health, funded by Health Canada & Can. Mortgage & Housing Corp., Ottawa, ON.
10. Member (May 1997), Health Canada's round-table discussions to review the regulations for the registration of chemical microbicides in Canada.
11. Advisor (since Sept. 1997), Can. Customs & Revenue Agency on survival & inactivation of bioagents.
12. Invited Expert (Nov. 1998), Workshop on Risk Management Framework for Disinfectants & Sanitizers,

organized by the Therapeutics Products Program, Health Canada.

13. Member (since Sept. 2000), Health Canada's committee to supervise the elimination of polioviruses from laboratories in Canada.
14. Reviewer (Feb., 2001), document on foodborne diseases for the Bureau of Microbial Hazards, Health Canada (contact Dr. S. Bidawid).
15. Member (Nov. 2002), Health Canada's panel of experts on the development of new guidelines of the microbiological safety of packaged water.
16. Member (Jan. 2003), Health Canada's working group to write guidelines on preparedness of hospitals against bioweapons.
17. Expert input (Sept. 2005), Relevance of tuberculocidal claims to activity of microbicides against hepatitis B virus. Public Hlth. Agency of Canada, Ottawa, ON (contact Rolande D'Amour).
18. Written submission to an invitation (Oct. 2005). Natural Sci. & Engr. Res. Council of Canada's review of strategic research programs (contact Madeleine Bastien).
19. Expert input (Mar. 2005), Cold water washing of fabrics & their potential for spread of infections. One-tonne challenge to reduce green-house gases, Environmental Canada, Ottawa, ON (contact Denise Eisner).
20. Advisor (Jan. 2009), Health Canada's Guidance Document on Human-Use Antiseptic Drugs (contact Dr. Thea Mueller)
21. Invited Expert (Jan. 2009), Public Health Agency of Canada's expert group on drafting 'Household Cleaning Guidelines' (contacts Rita Finlay & Regan Murray).
22. Invited participant (Mar. 2009). Can. Food Inspection Agency's two-day consultations on developing a cluster of food science labs. in the Ottawa region (contact Sandra Fry).
23. Invited participant (May 2009), Expert group to draft guidelines on hand hygiene in First Nations communities in Canada (contact Dr. Paul Sockett).
24. Advisor (July 2008), Can. Food Inspection Agency on experimental studies of airborne spread of avian influenzaviruses (Dr. Susan Nadin-Davis).
25. Expert in-put (Jan. 2009), to Royal Can. Mounted Police (RCMP) on the role of dry-cleaning to reduce the risk of spread of influenzaviruses from uniforms (contact Dr. Marc-Andre Beaulieu).
26. Invited Member (April 2009), Public Health Agency of Canada's Working Group on Lab. Containment of Wild Polioviruses (contact Dr. John Lynch).
27. Advisor (since May 2009), Can. Food Inspection Agency (CFIA) on quantitative carrier testing of disinfectants (contacts Drs. E. Rohonczy, Brian Brooks & Jiewen Guan).
28. Advisor (Oct. 2009), Canadian Patient Safety Institute's Hand Hygiene Campaign (contacts Dr. Laurel Taylor & Annamarie Fuchs).
29. Expert in-put (Jan. 2010), on aerobiology of viruses to Indoor Environ. Research Program, National Research Council of Canada, Ottawa, ON (contact Dr Zuraimi Sultan).

American governmental and non-governmental agencies

1. Member (April 1978), U.S. National Sci. Foundation's panel of experts on "Water Quality & Health Significance of Bacterial Indicators of Pollution".
2. Member (April 1991), U.S. Environ. Protection Agency's Scientific Advisory Panel on Antimicrobial Test Methodology Research.
3. Member (Nov. 1993), panel of experts to discuss U.S. National Sci. Foundation's program for research on "HIV in the Environment".
4. Co-Chair (May 1994), panel discussion at "The First Workshop on Antiviral Claims of Topical Antiseptics" sponsored by U.S. Food & Drug Admin., held in Bethesda, MD.
5. Advisor (June 1995), U.S. Environ. Protection Agency on the methods for testing microbicidal activity against human hepatitis B virus.
6. Member (July 1995), committee of experts to review progress of research on microbicide test methodology funded by the U.S. Environ. Protection Agency.
7. Invited expert (June 1997), Industry/FDA symposium on the need, germicidal testing & registration of topicals in the U.S. as outlined in the FDA Tentative Final Monograph.
8. Invited expert (June 1998), SDA/CTFA roundtable discussion on relevance of microbicidal handwash products for consumers & foodhandlers in the Healthcare Continuum Model. Washington, D.C.
9. Expert in-put (Jan. 2006), Activity of alcohol-based handrubs against noroviruses; committee for the revision of HICPAC/CDC isolation guideline (Dr. Jane D. Siegel).
10. Advisor (Mar. 2006). County of Alameda (Oakland) of the State of California on climate change &

waste-reduction options related to the use of various hand drying options (contact Emily Sadigh).

11. Expert in-put (June 2006), Environmental survival & microbicide inactivation of influenzaviruses; National Biosafety & Biocontainment Training Program at the National Institutes of Health, Bethesda, MD (contact Hector Valtierra).
12. Expert Reviewer (Mar 2009), document on Norovirus Risk Profile for U.S. Food & Drug Administration's Center for Food Safety & Nutrition (contact Stephanie Sarraino of Versar, Inc).
13. Advisor (Mar. 2010), on risk of environ. spread of highly pathogenic avian influenzaviruses, U.S. Dept. of Agriculture (contact Dr. Sasidhar Malladi).
14. Expert in-put (May 2010), U.S. EPA's BEAD Lab on the quantitative carrier test & also plaque assay for feline calicivirus (contact Dr. Jafrul Hasan).

International

1. Member (Nov. 1982), International panel of experts on 'Biological Health Risks of Sludge Disposal to Land in Cold Climates'.
2. Member (April 1983), International Joint Commission on the Great Lakes' panel on "Open-Water Disposal Site Selection".
3. Member (April 1991) panel of experts to advise The Netherlands Water Research Institute (KIWA), Nieuwegein, on the directions for research on viruses in drinking water.
4. Member (since Oct. 1991), International Infection Control Council.
5. Member (1993-2000), Can. delegation to Sterilization & Disinfection Subcommittee of International Organization for Standardization (ISO).
6. Member (Jan. 1994), panel of experts to discuss International Develop. Res. Centre's priorities to fund drinking water technology research for developing countries.
7. Member (1996-2000), steering committee of the International Develop. Res. Centre's initiative on 'Integrated Approaches to Safe Drinking Water'.
8. Member (Dec. 1998). International panel of experts to draft recommendations for prevention & control of infections in mothers, neonates & infants in developing countries.
9. Invited expert (Feb. 1999). International panel of experts at a roundtable on *Perspectives on Home Hygiene: Development of a Rational Approach*, Columbia Univ., New York, NY.
10. Invited expert (Mar. 1999). International panel of experts to develop statements on *Global Consensus on Antimicrobial Resistance & Infection Control Issues*, held in Toronto, ON
11. Invited Reviewer (June, 2000), Document on 'Overview of Efficacy Testing Methods for Biocides' for the Organization for Economic Cooperation & Development (OECD), Paris, France.
12. Invited member (April 2002), Canadian delegation to the workshop of the Organization for Economic Cooperation & Development (OECD) on the Harmonization of Biocide Test Methodologies, Washington, D.C.
13. Member (Aug. 2007), international panel of experts on suspected links between asthma & exposure to chlorinated swimming pools; under the auspices of the Research Foundation on Health & Environmental Effects.
14. Member, (Since Sept. 2007), international panel of experts on development of a guide for disinfection of aircraft cabins; under the auspices of the International Civil Aviation Organization (ICAO). The recommendations of this group were incorporated in a WHO report *Guide to Hygiene & Sanitation in Aviation*. (http://www.who.int/water_sanitation_health/hygiene/ships/guide_hygiene_sanitation_aviation_3_edition.pdf).

SERVICE TO OTHER ACADEMIC INSTITUTIONS AS EXTERNAL REVIEWER (since 1990)

1. Consultant (Oct. 1990), Dept. Microbiol., Faculty of Medicine, Univ. of Toronto, Toronto, ON, on protocols to test virus inactivation during decontamination of biomedical waste.
2. Consultant (May, 1993), on viruses in indoor air; Univ. of Minnesota, Minneapolis, MN.
3. External Referee (Sept., 1994), request for promotion to Full Professor, West Indies School of Medicine, Grenada.
4. Member (Sept. 1994-Aug. 1996), Thesis Advisory & Comprehensive Examination Committees for Christine Morgan, Ph.D. student, Dept. Biology, Carleton Univ., Ottawa, ON.
5. Sept. 1996, request for promotion to Assoc. Prof., Dept. Microbiol., Brigham Young Univ., Provo, UT.
6. Oct. 1999, request for promotion to Assoc. Prof. of Microbiol., Am. Univ. of Beirut, Beirut, Lebanon.
7. Dec., 1999, expert advice to the Institute for Environ. Studies, Univ. of Karachi, on revision of

laboratory course manual for the Masters Program in Environ. Studies.

8. Sept. 2001, request for tenure, Arizona State Univ., Phoenix, AZ.
9. Jan. 2002, request for promotion to Full Professor in Microbiol. Univ. of New Hampshire, Durham, NH.
10. Member, Thesis Advisory Committee for H. Reza Salsali, Ph.D. candidate, Environ. Engr., Carleton Univ., Ottawa, ON.
11. Aug. 2008, application for renewal of Tier 2 Canada Research Chair, Ryerson Univ., Toronto, ON.
12. Mar. 2009, application for promotion to the rank of Reader, Cardiff Univ., Cardiff, Wales.
13. May 2009, request for promotion to Assoc. Professor, Univ. of Michigan, Ann Arbor, MI.

EXPERT IN-PUT TO JOURNALISTS & AUTHORS OF POPULAR BOOKS (since 1991)

1. Feb. 1991. Can. Broadcasting Corp. ('Market Place'), Toronto, ON, on use of chemical disinfectants in hospitals & methods for testing them.
2. Advisor (July 1993), British Broadcasting Corp. ('Panorama'), on chemical disinfection of medical & dental instruments in preventing cross infections.
3. Oct. 1996. Ms. M. Horsfield (Nanaimo, B.C.) in the preparation of her book *Biting the Dust*.
4. Jan. 2005. Can. Broadcasting Corp., Toronto, ON, on the use of microbicides for the control of MRSA in hospitals (contact Leiane Cooke).
5. Dec. 2005. Microbiol. quality of water, free-lance writer, Ottawa, ON (contact Lucianne Poole).
6. Aug. 2009), ABC News (New York) on the potential of hand-held electronic devices to spread disease-causing microbes (contact Need Potter).
7. Sept. 2009, for a book on personal hygiene (contact Linda Rao).

SERVICES TO HOSPITALS & OTHER HEALTHCARE INSTITUTIONS (since 1991).

1. Advisor (June 1991), Grace General Hosp., Ottawa, on the selection & use of chemical disinfectants for the prevention & control of nosocomial infections.
2. Advisor (July-Aug., 1991), King Faisal Specialist Hosp., Riyadh, on the expansion of their clinical virology laboratory.
3. Advisor (Aug. 1993), Public Health Nursing, Kotzebue, Alaska, USA, on the selection & use of chemical disinfectants to prevent & control the spread of hepatitis A virus.
4. Advisor (Dec. 1996), Sunnybrook Health Sciences Centre, Toronto, on chemical disinfection of flexible endoscopes.
5. Advisor (since May 1995), Community & Hosp. Infection Control Assoc. of Canada on the use of glutaraldehyde-based products for endoscope disinfection.
6. Advisor (June 1996), Kingston General Hosp., on guidelines for the selection & use of chemical microbicides in infection control.
7. Advisor (July 1996), Mount Sinai Hosp., Toronto, ON, on evaluation of automatic endoscope reprocessors.
8. Advisor (Dec. 1996), Sunnybrook Health Sci. Centre, Toronto, ON, on disinfection of endoscopes.
9. Advisor (April 2001), Calgary Regional Health Authority on using microbicides in infect. control (contact Jill Pollock).
10. Session Moderator (May 2002) at an international Stanier Institute symposium on *Linking Hygiene to Health: Old Foes & New Challenges*, held on May 10, 2002, at the Univ. of Western Ontario, ON.
11. Co-chair (April 2004). Symposium on "Viruses as nosocomial pathogens", Biennial meeting of the German Soc. for Hosp. Hygiene, Berlin, Germany.
12. Expert input (May 2005), Microbicides for the inactivation of *Clostridium difficile* spore in healthcare facilities. Infect. control, Bluewater Health, Sarnia, ON (contact Nora Boyd).
13. Expert in-put (Jan. 2005), Activity of alcohol-based handrubs against noroviruses. Infect. Control, Mount Sinai Hosp., Toronto, ON (contact Christine Moore)
14. Advisor (Aug. 2005), Use of chlorine bleach in healthcare settings, St. Michael's Hosp., Toronto, ON (contact Maryam Salaripour).
15. Expert input (Sept. 2005), Use of sodium hypochlorite solutions for inactivation of *Clostridium difficile* spores in healthcare settings, Ontario Ministry of Public Health & Long-Term Care, Toronto, ON (contact Clare Barry).
16. Advisor (April 2006). Hotel Dieu Hosp., Kingston, ON, use of ethanol for the decontamination of tonometers (contacts Janet Allen & Kelly Youmans).

EXPERT IN-PUT TO THE PRIVATE SECTOR

1. Consultant (May 1991), Sendex Environ. Corp., London, ON, on sampling of medical waste disposal sites.
2. Consultant (Mar. 1993), Sterisol AB, Vadstena, Sweden, on the design of protocols to determine the acceptance of hand-washing products by health-care personnel.
3. Advisor (Aug. 1995), Stuart & Miller, Inc., Willowdale, ON, on pathogen removal by point-of-use water treatment devices.
4. Advisor (Aug. 1995), BioTech Transfer, Waterloo, ON, on testing germicidal activity of topicals.
5. Consultant (May 1995), to World Dryer Corp., Chicago, IL, on research to assess the microbiological safety of warm air hand dryers.
6. Co-Chair with Prof. M. Rotter, Univ. of Vienna (Sept. 1995), Round Table Forum on Hand Disinfection. Sponsored by Remington Medical, Toronto, ON.
7. Consultant (Sept. 1995), Schülke & Mayr, Hamburg, Germany, on current perspectives on microbicide use in Canada & regulations on registration of microbicides.
8. Coordinator (Mar. 1995), CTFA, a workshop in Ottawa on research needs to evaluate prevention of disease spread through the use of antibacterial soaps.
9. Advisor (Oct. 1995), to Fresenius, Bad Homburg, Germany, on evaluating microbicides.
10. Advisor (Dec. 1995), ORMCO Corp., Glendora, CA, on testing microbicides against bacterial spores.
11. Advisor (Aug. 1996), ViroMed, Minneapolis, Minnesota, on testing the virucidal activity of microbicides.
12. Advisor (Dec. 1996), Medical Institute, West Lafayette, Indiana, on registering microbicides.
13. Expert input (Feb. 2005). Surrogates for in vitro testing of microbicides against human papillomaviruses, ATS Lab, Eagan, MN (Contact Dr. D. G. Anderson).
14. Expert input (Mar. 2005), Anti-microbial fabrics, Global Uniform Co., Seattle, WA (contact T. Ham).
15. Expert input (Mar. 2005), virucidal activity of environmental surface disinfectants against caliciviruses, Princess Cruises, Miami, FL (contact Dr. J. H. Gibson).

EXPERT IN-PUT TO PROFESSIONAL AND TRADE ORGANIZATIONS

1. Member (1985-1988), Board of Directors, Canadian College of Microbiologists.
2. Member (April, 1988), Can. Soc. for International Health's Review Committee for International Health Exchange Fellowships.
3. Member (1985-1990), Continuing Education Committee, Can. College of Microbiologists
4. Member (1988, 1989), group (Can. Soc. Microbiol.) to lobby Members of the Canadian Parliament on support for scientific research.
5. Archivist (June 1989- Sept., 1992), Canadian Society of Microbiologists.
6. Member (Oct. 1992), Scientific Advisory Group on 'Public Health Impact of Land-Filling & Composting of Infectious Waste'.
7. Co-Chair with Prof. M. Rotter (Mar. 1995), Symp. of Hand Disinfection: Harmonizing Evaluation of Procedures in Europe, 7th European Congr. of Clin. Microbiol. & Infect. Dis., Vienna, Austria.
8. Invited expert (Oct. 1994), Can. Pediatric Soc. on need for general use of microbicidal soaps.
9. Coordinator (Mar. 1995), CTFA, a workshop in Ottawa on research needs to evaluate prevention of disease spread through the use of antibacterial soaps.
10. Advisor (since May 1995), Community & Hosp. Infection Control Assoc. of Can. on the use of glutaraldehyde-based products for endoscope disinfection.
11. Member (since Sept. 1995), Univ. Forum of the Ont. Water Works Association.
12. Member (June 1996), International Advisory Group on Emerging Waterborne Pathogens, Am. Water Works Res. Foundation, Denver, CO.
13. Proctor (Oct. 1999). Can. College of Microbiol. Certification examination.
14. Coordinator (Sept., 1999), visit of a Brazilian delegation to Ottawa to discuss issues on 'Watershed Management & Biosolids Disposal'.
15. Member (Feb. to May, 2000), Steering committee to develop a proposal for a National Centre of Excellence on 'Environmental Challenges for Clean Water'.
16. Session Moderator (May 2002), international Stanier Institute symp. on *Linking Hygiene to Health: Old Foes & New Challenges*, held on May 10, 2002, at Univ. of Western Ontario, London, ON.
17. Co-chair (April 2004). Symposium on "Viruses as nosocomial pathogens", Biennial meeting of the

German Society for Hospital Hygiene, Berlin, Germany.

INTERNATIONAL DEVELOPMENT:

1. Founding member CANPREP (Canadians for Promotion of Research & Education in Pakistan): This organization provided scholarships for university students, assisted university students to go abroad for higher studies, provided scientific journals & technical literature to university researchers, established links between Pakistani researchers & researchers abroad.
2. Publisher (1987 to 1997) of the Journal of Canada-Pakistan Cooperation: This journal is aimed at promoting scientific, institutional & trade links between Canada & Pakistan; copies of it are provided free of charge to targeted government departments as well as organizations & individuals actively involved in international development, universities & research organizations in Canada & Pakistan & companies doing business or wishing to do business between the two countries.
3. Advisor (since 1977) on various aspects of water quality research to investigators in Argentina, Bangladesh, Brazil, China, Egypt, India, Pakistan, & Turkey.
4. Advisor (Jan. to April, 1981) to assist the Univ. of Karachi, Karachi, Pakistan, to initiate research on environmental virology.
5. Member (Sept. 1982), WHO's Scientific Working Group on 'Viral Gastroenteritis'.
6. Invited participant (May 1985), International Develop. Res. Centre's workshop on 'Research for Third World Development', held in Waterloo, ON
7. Advisor (Dec. 1985 - Jan. 1986) to Pakistan Council of Scientific & Industrial Research, Karachi, on the establishment of research in applied virology.
8. Canadian Representative (1985-1992) on the International Assoc. of Water Pollution Research & Control's (IAWPRC) Management Committee of the International Study Group on Health Related Aspects of Water Microbiology.
9. Invited expert (Dec. 1987), to review the impact of sewage pollution of coastal waters in Karachi, Pakistan, on shrimp harvest.
10. Member (1988-1992), Can. Soc. for International Health's Review Committee for International Health Exchange Fellowships.
11. Advisor (since 1988) to United Arab Emirates Univ. (Al-Ain), King Faisal Specialist Hosp. (Riyadh), King Saud Univ. (Riyadh), Univ. of Karachi (Pakistan), Indian Institute of Technol. (Kanpur, India), & International Diarrheal Disease Res. Centre (Dhaka, Bangladesh).
12. Member (Feb. 1989), IDRC's panel of experts to review a 7-country project on 'Evaluation of Field Tests for Assessing Drinking Water Quality in Develop. Countries.
13. Invited Member (Sept. 1992), Can. International Develop. Agency's (CIDA) panel on 'Aid to Pakistan'.
14. Member (Jan. 1994), panel of experts to discuss the International Develop. Research Centre's priorities for funding drinking water technology research for developing countries.
15. Advisor (Dec. 1995) to Sindh Agriculture Univ., Tandojam, Pakistan, on updating microbiology & immunology syllabi for DVM students.
16. External Examiner (June 1996), Masters thesis, Dept. of Biochem., Univ. of Malaya, Kuala Lumpur, Malaysia.
17. Member (since Feb. 1996), Steering Committee for IDRC's initiative on Monitoring for Toxins in Drinking Waters in Developing Countries.
18. Advisor (Aug. 1996). To the International Islamic Univ., Kuala Lumpur, Malaysia, on the establishment of a new Faculty of Sci..
19. Invited Participant (Sept. 1996), External Affairs Canada's Round-table on South Asia.
20. Advisor (Jan. 1999), Institute for Environ. Studies, Univ. of Karachi, Pakistan, on the revision of the laboratory course manual for the Masters Program in Environ. Studies.
21. Advisor (Jan. 1999). Dept. of Microbiol, The Aga Khan Univ. Hosp., on revision & updating of the core course material on virology for the medical students.
22. Advisor (May 2006). Pakistan's Higher Education Commission (Islamabad) on the revision & updating of university curriculum for teaching microbiology.

MEMBERSHIP IN BOARDS OF DIRECTORS/TRUSTEES & EXECUTIVE COUNCILS:

1. Member (1978-1979), Board of Directors, Pollution Probe, Ottawa.

2. Member (1983-1985), Board of Trustees, North Am. Scholarship Foundation, Toronto (The Foundation provides scholarships to school & college students in developing countries).
3. Member (since Jan. 1998), Board of Directors, Agahi Canada (a non-governmental organization for international development), Ottawa, ON, Canada.
4. Member (since Jan. 1995), Executive Council, Pakistan Soc. for Microbiol., Karachi, Pakistan.
5. Charter Member (since Feb. 1999), Board of Directors, Roger Stanier Institute (Named after a prominent Canadian microbiologist, this society promotes research, education & training in public health & hygiene).
6. Member (since July 2000), Advisory Council, Institute of the Environ., Univ. of Ottawa.
7. Member (since August 1998), Board of Directors, Virox Technologies, Inc., Mississauga, ON.

MEMBERSHIP IN NATIONAL & INTERNATIONAL STANDARDS/GUIDELINE SETTING COMMITTEES/ORGANIZATIONS:

1. Member (April 1989 to April 2004) of Am. Water Works Assoc. Standard Methods Committee on Enteric Viruses for *Standard Methods for the Exam. of Water & Wastewater*.
2. Member (since April 1990), Canadian General Standards Board's Committee on Protocols for Testing of Chemical Disinfectants.
3. Member (April 1990), panel of experts to review the International Assoc. on Water Quality's document on 'Bacteriophages as Models in Water Quality Control'.
4. Member (since Oct. 1993) Committee E-35.15, Am. Assoc. Testing & Material's (ASTM) committee on the development of standard protocols for testing the germicidal activity of chemisterilants, disinfectants & antiseptics.
5. Advisor (Mar. 1993), Bureau of Microbial Hazards, Health Canada, on the development of guidelines for the prevention & control of hepatitis A through food.
6. Member (Since Jan. 1995), panel of experts set up by Health Canada to revise the Infect. Control Guidelines (Hosp. Environ. Control).
7. Member (1997-2002), nominated to represent Canada (corresponding member) on the European Standards Committee (CEN TC 216, WG1) on Human Medicine.
8. Invited expert (Sept. 1999). National Sanitation Foundation's committee on standard test protocol development.
9. Invited Member (since Jan. 2003), AOAC International's Presidential Task Force for revision of Official Methods of Analysis for testing microbicides.
10. Invited Member (since January 2006), Alliance for the Prudent Use of Antimicrobials, Tufts Univ., Boston.
11. Invited Member (Oct. 2005). Global Health & Security Action Group (under G-8), Rome, Italy.
12. Invited Member (July 2005), International Sci. & Technology Committee, External Affairs Canada, Ottawa, Canada.
13. Invited Member (Feb. 2006), Ontario Ministry of the Environment's consultations on 'Sci. Partnerships' between OME & Ontario universities.
14. Invited Member (Mar. 2006), Ontario Ministry of Health & Public Health Agency of Canada's workshop on "Hand Hygiene Consensus Building", Toronto, ON.
15. Invited Member (June 2006), Organization of Economic Cooperation & Development's Task Force for the drafting & review of harmonized methods to test microbicides on use on hard, non-porous environmental surfaces.
16. Invited Member (Jan 2010), AOAC International's Expert Review Panel for the updating of the U.S. EPA's Guidance Document on testing microbicides against the spores of *Clostridium difficile*.

CONTRIBUTIONS TO NATIONAL & INTERNATIONAL STANDARDS

Canadian General Standards Board (Ottawa, ON)

Assessment of efficacy of antimicrobial agents for use on Environmental surfaces & medical devices. (CAN/CGSB-2.161-M97).

ASTM International (West Conshohocken, PA)

1. *Standard Test Method for determining the virus-eliminating effectiveness of liquid hygienic handwash & handrub agents using the fingerpads of adult volunteers (E-1838).*
2. *Standard Test Method for determining the bacteria-eliminating effectiveness of hygienic handwash & handrub agents using the fingerpads of adult subjects (E-2276).*
3. *Standard quantitative carrier test method to evaluate the bactericidal, fungicidal, mycobactericidal & sporicidal potencies of liquid chemical germicides (E-2111).*
4. *Standard quantitative disk carrier test method for determining the bactericidal, virucidal, fungicidal, mycobactericidal & sporicidal activities of liquid chemical germicides (E-2197).*
5. *Standard test method for determining the fungus-eliminating effectiveness of hygienic handwash & handrub agents using the fingerpads of adults (E-2613).*

NSF International (Ann Arbor, MI)

Sanitization Performance of Residential Clothes Washers (NSF Protocol P172)

INTERNAL COMMITTEES (Since 1979)

University

1. Member (1981 to 1988), Commission on Grad. Studies in the Sciences, School of Graduate Studies & Research.
2. Member (1983-1988), Univ. of Ottawa Biohazards Committee.
3. Member (since 1988), Univ. of Ottawa's International Water Engr. Centre
4. Chairman (Jan. 1993-Dec. 1998), Univ. of Ottawa's Biohazards Committee.
5. Chairman (1983-2000), oral thesis defense of graduate students.
6. Invited Participant (Nov. 1993), International Development Research Centre's (IDRC) visit to the university & discussions on their current research priorities.

Faculty

1. Member (1979-1982), Animal Care Committee.
2. Member (1979-1985), Electron Microscope Users Committee.
3. Member (1984-1986), Research Committee.
4. Member (1983-86), Library Committee
5. Chairman (1986-1988), Library Committee.
6. Manager (May 1983-June 1989), Faculty Biohazards Containment Facility.
7. Member (1988), Steering Committee for Self-Study.
8. Member (1988-2000), Student Advisory Group.
9. Member (July 1992 - June 1993), Search Committee for Departmental Chair
10. Member (Sept. 1979-1983 & Sept., 1993 - 1995), Faculty Council
11. Member (Sept. 1994-Aug. 1995), Promotions Committee, Undergrad. Meds. (Stage 1)
12. Member (Jan. 1995-Dec. 1996), Medical Curriculum Review Committee
13. Member (Sept. 1996-Aug. 1997), Health Sciences Library's Advisory Committee
14. Member (Sept. 1995-Aug. 1996), Block Review Committee, Faculty of Medicine
15. Member (July 1995-June 1997), Faculty of Med. Teaching Personnel Committee
16. Member (Sept. 1995-Aug., 1997), Undergrad. Promotions Committee, Faculty of Med.
17. Member (Dec. 1996), Univ. of Ottawa, Biohazard Training Subcommittee
18. Member (Sept. 1996), Faculty of Medicine, Special Nominating Committee
19. Member (June 1997), Faculty of Medicine, Nominating Committee
20. Member (1996-1997), Advisory Committee for Health Sciences Libraries
21. Member (Nov. 1999), Review of nominations for the Faculty's Awards of Excellence

Departmental

1. Director (July 1981 to June 1988), Graduate Program.
2. Coordinator (July 1981 to June 1987), Seminar Program
3. Member (1982-present), thesis advisory committees of 25 graduate students.

4. Member (1982-2002), comprehensive examination committee of 20 graduate students.
5. Member (1982-2000), thesis examiner for 15 students.
6. Member (1988-1993), Teaching Personnel Committee
7. Member (1992-1993), Committee for allocation of the services of departmental technicians.
8. Member (May 1994 – April 2000), Space Review Committee.
9. Member (May 1994 - Aug. 1996), Seminar Committee.
10. Member (Dec. 1994-Mar. 1995), Committee to Review Hlth. Sciences Library's holdings in Microbiol.
11. Member (June 1994), Graduate Courses Review Committee
12. Chair, (1995-1997), Departmental Finance Committee
13. Chair (Sept. 1996 to 1998), Seminar Committee
14. Member (May 1996), Advisory Committee for the Biotechnology Research Institute
15. Member, Committee to select Head of Lab. Medicine, Children's Hosp. of Eastern Ont.
16. Member, Dept. Curriculum Review Committee
17. Member (Oct. 1997), Departmental Resources Committee
18. Member (Sept. 1998), Departmental Graduate Studies Committee

RESEARCH COLLABORATIONS (since 1985):

(Most of the listed collaborations either already have or soon anticipated to lead to at least one peer-reviewed paper and/or conference presentation, technical report and joint funding).

	Name	Affiliation	Research Area	Period
1.	Dr. K. Dimock	BMI, Univ. of Ottawa	Enterovirus 70	1986-1988
2.	Dr. M. Chaudhuri	Indian Inst. of Tech., Kanpur, India	Low-cost filters for drinking water	1985-2003
3.	Dr. G. Wells & Dr. W. Tostowaryk	Div. of Biometrics, Hlth. Canada, Ottawa	Microbicidal activity of hand-wash agents	1985-1992
4.	Mrs. M.E. Kennedy &	Office of Biosafety Health Canada, Ottawa	Chemical microbicides	1985-1997
5.	Mr. J. Boulet	Epidemiol. & Community Medicine, Univ. of Ottawa	Biostatistics	1993-1994
6.	Dr. S. Kasatiya	Ont. Pub. Hlth. Labs., Ottawa, ON	Papillomaviruses	1993-1994
7.	Dr. N. Zelter	Montana State Univ., Bozeman, MT	Carriers for microbicides	1993-1995
8.	Dr. C. Wyndham	Dept. of Biology, Carleton University, Ottawa, ON	Water quality	1993-1996
9.	Ms. M. Best	Office of Lab Security, Health Canada, Ottawa, ON	Bioagent survival & inactivation	1997-2002
10.	Mr. W. Robertson	Environ. Hlth. Cent. Health Canada, Ottawa, ON	Survival of microbes in water	1988-2007
11.	Dr. A. Wandeler	Rabies Unit, CFIA, Ottawa, ON	Rabies vaccination of wildlife in Canada	1988-2002
12.	Dr. A. Sharpe	Health Canada & Filtaflex, Ottawa, ON	Hydrophobic-grid membrane filters	1990 - present
13.	Dr. J. Farber	Health Canada, Ottawa, ON	Foodborne pathogens	1990-present
14.	Prof. G. Ayliffe	Univ. of Birmingham, Birmingham, U.K.	Germicidal action of chemical disinfectants	1990-1993
15.	B. Brodeur	Health Canada, Ottawa, ON	Enterovirus 70 & monoclonal antibodies	1990-1994
16.	Dr. S. Sourirajan	Indust. Membrane Res. Institute, Univ. of Ottawa	Hollow fibres in environ. microbiology	1990-1995
17.	Dr. S. Bidawid	Health Canada, Ottawa, ON	Hepatitis A, calici- & noroviruses	1995-present
18.	Ms. D. Lavalée	Res. Div., Rehab. Centre, Ottawa, ON	Chem. decontamination of catheters	1991-1997

19.	Dr. J. Campione-Picardo	Bureau of Microbiol., Hlth. Canada, Ottawa	Papillomaviruses	1992-1994
20.	Dr. W. Lancaster	Wayne State Univ., Detroit, MI	Papillomaviruses	1992-1994
21.	Dr. M. Hamilton	Montana State Univ.	Disinfectants	1993-2005
22.	Ms. M. Paquette	Ottawa General Hosp.	Endoscope disinfection	1992-1997
23.	Dr. B. Toye	Ottawa General Hosp.	Endoscope disinfection	1994
24.	Dr. M.M. Kekez	National Res. Council of Canada, Ottawa, ON	New decontamination technologies	1995-2005
25.	Mr. I. Douglas	Water Treatment Plants, City of Ottawa	Microbiology of water for drinking	1995-present
26.	Dr. S. Howard	Special Pathogens, Hlth. Canada, Ottawa, ON	Mycobacteria	1995-1997
27.	Dr. S. Qureshi	Bureau Drug Res., Hlth. Canada, Ottawa, ON	<i>Ex vivo</i> protocols for evaluation of topicals	1994-1997
28.	Dr. J. Austin	Health Canada, Ottawa, ON	Biofilms	1994-present
29.	Mr. V. Gangi	U.S. Food & Drug Admin., Boston, MA.	Evaluation of sporicidal chemicals	1994 - 1997
30.	Mr. R. Vanderwal	Vanderwal Engr., Kingston, ON	Hydroclave for biomedical waste	1994-1997
31.	Dr. L. Filion	Faculty of Medicine, Univ. of Ottawa	<i>Legionella</i> in groundwaters	1995-present
32.	Dr. S. Riffard	Tech. Univ. of St. Etienne, France	<i>Legionella</i> in groundwaters	1995-present
33.	Pro. M. Lee	Ryerson Univ., Toronto, ON	Protozoa in biofilms	1998-2003
34.	Dr. M. LeChevallier	AWWSCO, Belleville, IL	Microbial quality of drinking water	1995-2000
35.	Dr. M. Abbaszadegan	AWWSCO, Belleville, IL	Microbial quality of drinking water	1995-2000
36.	Dr. A.H. Chagla	Provincial Pub. Hlth. Lab, London, ON	Protozoa in the water environment	1995-present
37.	Dr. G. Forget	IDRC, Ottawa, ON	Integrated approaches to safety of drinking water in develop. world	1996-2000
38.	Dr. J. R. Dillon	BMI, Univ. of Ottawa	Antibiotic & microbicide resistance	1997-2006
39.	Ms. M. Pryor	Pinellas County, Tampa, FL	Pathogens in drinking water biofilms	2001-present
40.	Mr. P. Webber	WebberTraining, Belleville, ON	Teleclass series	2001-present
41.	Dr. M. K. Ijaz	Reckitt Benckiser, Montvale, NJ	Microbicides	2000-present
42.	Dr. M. Goss	Dept. of Soil Sci., Univ. of Guelph, ON	Pathogens & land disposal of biosolids	2002-present
43.	Dr. W. Parker	Dept. of Environ. Engr., Carleton Univ., Ottawa, ON	Pathogens & treatment of municipal wastes	2002-2005
44.	Ms. K. Bernard	National Microbiol. Lab., Health Canada, Winnipeg, MB	Microbicides against the spores of <i>Bacillus anthracis</i>	2003-present
45.	Dr. S. Wagener	Can. Sci. Centre for Human & Animal Hlth., Winnipeg, MB	Activity of microbicides against the SARS coronavirus	2003-present
46.	Dr. W. Conlan	National Res. Council, Ottawa, ON	Activity of microbicides against <i>Bacillus anthracis</i>	2003-2007
47.	Dr. M. Hussain	Queen's Univ., Kingston, ON	Drinking water quality	2002-2007
48.	Dr. K. Hall	Civil Engr., Queen's Univ.	Drinking water quality	2002-2007
49.	Dr. D. Abrial	Univ. de Saint Etienne, Saint Etienne, France	Biostatistics	2003-2004

50.	Dr. R. Andrews	Civil Engr., Univ. of Toronto, Toronto, ON	Disinfection of water for drinking	2002-2007
51.	Dr. S. Andrews	Univ. of Waterloo, Waterloo, ON	Disinfection by-products	2002-2007
52.	Dr. C. Bin Kingombe	Health Canada, Ottawa, ON	Foodborne bacteria	2002-present
53.	Dr. G. Gagnon	Civil Engr., Dalhousie Univ., Halifax, NS	Biofilms in drinking water systems	2003-2007
54.	Dr. R. Hoffman	Civil Engr., Univ. of Toronto, Toronto, ON	Disinfection of water for drinking	2003-2007
55.	Dr. E. Brown	BMI, Univ. of Ottawa	Influenzaviruses	2006-present
56.	Dr. A. Stintzi	BMI, Univ. of Ottawa	Enteric bacteria	2006-present
57.	Dr. P. Payette	Public Health Agency of Canada, Ottawa, ON	Activity of microbicides against bioagents	2003-2005
58.	Dr. P. Lee	Umedik, Toronto, ON	Microbicidal activity of sanitizers	2003-2004
59.	Dr. C. Bernstein	Gastroenterologist, Univ. of Manitoba, Winnipeg, MB	Microbiol. quality of drinking water & inflammatory bowel dis.	2004-present
60.	Mr. T. Rook	STERIS Corp., Mentor, OH	Machine disinfection of endoscopes	2004-2005
61.	Mr. N. Omidbakhsh	Virox Tech., Oakville, ON	Accelerated H ₂ O ₂ -based microbicides	2005-present
62.	Dr. T. Mah	BMI, Univ. of Ottawa	Biofilms (<i>P. aeruginosa</i>)	2006-2008
63.	Dr. David Macinga	GOJO Industries, Akron, OH	Alcohol-based handrubs	2005-2009
64.	Dr. K. Mattison	Bureau of Microbial Hazards, Health Canada, Ottawa, ON	Noroviruses	2006-present
65.	Dr. D. Bérubé	Toxicology, Health Canada, Ottawa, ON	Inhibition of <i>E. coli</i> growth by aluminum	2006-present
66.	Dr. Deepak Sharma	Brightwell Tech., Stitsville, ON	Dynamic particle analyzer	2006-present
67.	Dr. R. Nokhbeh	BMI, Univ. of Ottawa. Ottawa	Phages of bacteria	2006-2009
68.	Dr. F. Pagotto	Bureau of Microbial Hazards, Health Canada, Ottawa, ON	Foodborne bacterial pathogens	2006-2008
69.	Dr. K. Novakowski	Civil Engr., Queen's University, Kingston, ON	Viral pollution of groundwaters	2007-2010
70.	Dr. G. Rabinski	R&D Innovative Solutions, Inc., Ottawa, ON	Conc. of human pathogens in water	2008-present
71.	Dr. M. DeRosa	Dept. Chemistry, Carleton Univ., Ottawa, ON	Aptamers against viruses	2008-present
72.	Dr. R. Pickup	School of Hlth. & Med., Lancaster Univ., Lancaster, UK	Human pathogens in water-based biofilms	2006-present
73.	Dr. A. Unc	Soil Sci., Univ. of New Mexico, Las Cruces, NM	Microbiol. of surface & groundwaters	2006-present
74.	Dr. D. Pittet	Geneva Univ. Hosp., Geneva, Switzerland	Hand antisepsis	2005-present
75.	Dr. B. Dixon	Bureau of Microbial Hazards, Ottawa, ON	Microbicides & protozoan pathogens	2008-present
76.	Dr. M. Robidoux	Faculty of Health Sci., Univ. of Ottawa	Food/water quality in First Nations' communities	2008-present
77.	Dr. F. Haman	Faculty of Health Sci., Univ. of Ottawa	Food/water quality in First Nations' communities	2008-present
79.	Dr. P. Imbeault	Faculty of Health Sci., Univ. of Ottawa	Food/water quality in First Nations' communities	2008-present
81.	Dr. R. Delatolla	Civil Engr., Univ. of Ottawa	Microbiol. of waste treatment	2009-present
82.	Dr. D. Zoutman	Kingston Gen. Hosp., Kingston, ON	Decontamination of environ. surfaces in healthcare settings	2008-2010

PUBLICATIONS AND PRESENTATIONS

Books

1. **Sattar, S.A.** *Viruses, Water & Health.* (1978). Univ. of Ottawa Press, 106 pages.
2. Hui, Y.H., **S.A. Sattar**, K.D. Murrell, W.-K. Nip & P.S. Stanfield. *Foodborne Disease Handbook* (2001); 2nd edition, Marcel Dekker, Inc., New York, NY.

Monographs

1. **Sattar, S.A.**, Chauret, C., Springthorpe, V.S., Battigelli, D, Abbaszadegan, M. & LeChevallier, M. (1999). *Giardia Cyst & Cryptosporidium Oocyst Survival in Watersheds & Factors Affecting Inactivation.* Am. Water Works Assoc. Res. Found., Denver, CO, 122 pages.
2. Springthorpe, V.S. & **Sattar, S.A.** (2001). *A Dynamic Reactor to Study Disinfection of Drinking Water.* Am. Water Assoc. Res. Found., Denver, CO, 140 pages.
3. Riffard, S., Springthorpe, V.S., Fillion, L. & **Sattar, S.A.** (2003). *Occurrence of Legionella in Groundwaters.* Am. Water Works Assoc. Res. Found., Denver, CO, 164 pages.
4. Gagnon, G.A., Murphy, H.M., Rand, J.L., Payne, S.J., Springthorpe, S., Matias, F., Nokhbeh, R., **Sattar, S.A.** (2007). *Coliforms in Distribution Systems: Integrated Disinfection & Antimicrobial Resistance.* Report for project #3087. Am. Water Works Assoc. Res. Found., Denver, CO, 140 pages.

Course & Procedures Manuals

1. **Sattar, S.A.** (Sept., 1961). *Basic Laboratory Techniques in Bacteriology*, Dept of Microbiology, Univ. of Karachi, Karachi, Pakistan.
2. **Sattar, S.A.** (April, 1986). *Manual for Use in the Level "C" & "D" Biohazards Containment Facility*, Faculty of Medicine, Univ. of Ottawa, Ottawa, ON, Canada.
3. **Sattar, S.A.** (April, 1999). *The Need, Testing & Applications of Chemical Germicides*, produced for a one-day training course for staff & affiliates of Virox Technologies, Inc., Mississauga, ON, Canada.
4. Springthorpe, V.S. & **Sattar, S.A.** (October, 2003). *Quantitative Carrier Tests to Assess the Germicidal Activities of Chemicals: Rationales & Procedures.* ISBN 0-88927-298-0' Centre for Research on Environmental Microbiology (CREM), Univ. of Ottawa, Ottawa, ON, Canada. 98 pages. Available from QCTmanual@webbertraining.com.

Papers in Refereed Journals

1. **Sattar, S.A.** & Rozee, K.R. (1965). Studies on the biological properties & classification of SV₄ virus. *Can. J. Microbiol.* 11:325-331.
2. **Sattar, S.A.** & Westwood, J.C.N. (1967). Plastic chambers for the cultivation of cells on microscope slides & their application in virology. *Can. J. Microbiol.* 13:1107-1109.
3. **Sattar, S.**, Mitchell, C. & Guerin, L. (1967). Fluorescein-labelled goat milk antibodies: use in detection of mumps virus in tissue culture. *Can. J. Comp. Med. & Vet. Sci.* 31:265-267.
4. **Sattar, S.A.** & Westwood, J.C.N. (1967). Immunofluorescence in the study of viruses in tissue culture. I. Development of an immunofluorescent focus assay for herpes simplex virus. *Can. J. Microbiol.* 13:1489- 1497.
5. **Sattar, S.A.** & Westwood, J.C.N. (1968). Immunofluorescence in the study of viruses in tissue culture. II. Development of an immunofluorescent cell assay for influenza (A/PR8) virus. *Can. J. Microbiol.* 14:533-538.
6. **Sattar, S.A.** (1968). Immunofluorescence in microbiology: a review of some recent findings. *Univ. Studies (Karachi).* 5:20-33.
7. **Sattar, S.A.**, Synek, E.J., Westwood, J.C.N. & Neals, P. (1972). Hazard inherent in microbial tracers: reduction of risk by the use of *Bacillus stearothermophilus* spores in aerobiology. *Appl. Microbiol.* 23:1053-1059.
8. **Sattar, S.A.** & Westwood, J.C.N. (1974). Talc-Celite layers in the recovery of poliovirus from experimentally-contaminated samples of surface & waste waters. *J. Int. Res. Comm. System (Biomed. Tech.: Microbiol.)* 2:1432.

9. **Sattar, S.A.**, Ramia, S. & Westwood, J.C.N. (1974). Removal & inactivation of poliovirus during lime (calcium hydroxide) treatment of sewage. *J. Int. Res. Communications System (Biomed. Tech.: Microbiol.)* 2:1635.
10. **Sattar, S.A.** & Westwood, J.C.N. (1975). A method for the isolation of indigenous human viruses from sludge. *J. Int. Res. Commu. System (Biomed. Tech.: Microbiol.)*. 3:431.
11. **Sattar, S.A.** (1975). A simple holder for immunofluorescence staining. *Stain Tech.* 50:58-59.
12. **Sattar, S.A.** & Mitchell, C.A. (1975). Lactoglobulins (goat) in the immunofluorescence staining of parainfluenzavirus type 2 in L-132 cells. *Can. J. Comp. Med.* 39:360-361.
13. **Sattar, S.A.**, Ramia, S. & Westwood, J.C.N (1976). Calcium hydroxide (lime) & the elimination of human pathogenic viruses from sewage: studies with experimentally-contaminated (poliovirus type 1, Sabin) & pilot plant samples. *Can. J. Pub. Hlth.* 67:221-226.
14. **Sattar, S.A.** & Westwood, J.C.N. (1976). Comparison of talc-Celite & polyelectrolyte 60 in virus recovery from sewage: Development of technique & experiments with poliovirus (type 1, Sabin) contaminated multi-litre samples. *Can. J. Microbiol.* 22:1620-1627.
15. **Sattar, S.A.** & Westwood, J.C.N. (1976). Comparison of four eluents in the recovery of indigenous viruses from raw sludge. *Can. J. Microbiol.* 22:1586-1589.
16. **Sattar, S.A.** & Ramia, S. (1977). Phosphate removal with calcium hydroxide (lime): effect on viruses in sewage. *J. Int. Res. Comm. System (Biomed. Tech.: Microbiol.)* 5:590.
17. **Sattar, S.A.** & Westwood, J.C.N. (1977). Isolation of apparently wild strains of poliovirus type 1 from sewage in the Ottawa area. *Can. Med. Assoc. J.* 116:25-27.
18. **Sattar, S.A.** & Ramia, S. (1978). Viruses in sewage: effect of phosphate removal with calcium hydroxide (lime). *Can. J. Microbiol.* 24:1004-1006.
19. **Sattar, S.A.** & Westwood, J.C.N. (1978). Viral pollution of surface waters due to chlorinated primary effluents. *Appl. Environ. Microbiol.* 36:427-431.
20. **Sattar, S.A.** & Westwood, J.C.N. (1979). Recovery & significance of viruses in field samples of raw, digested & lagoon-dried sludges. *Bull. World Health Org.* 57:105-108.
21. **Sattar, S.A.** & Ramia, S. (1979). Use of talc-Celite layers in the concentration of enteroviruses from large volumes of potable waters. *Water Res.* 13:637-643.
22. Ramia, S. & **Sattar, S.A.** (1979). Second-step concentration of viruses in drinking & surface waters using polyethylene glycol hydroextraction. *Can. J. Microbiol.* 25:587-592.
23. **Sattar, S.A.** & Ramia, S. (1979). Talc-Celite layers in virus recovery from potable waters experimentally-contaminated with field isolates & sewage. *Water Res.* 13:1351-1353.
24. **Sattar, S.A.**, Springthorpe, V.S. & Ramia, S. (1979). Sewage disposal & viral pollution of the Ottawa River. *Water Pollution Res. Can.* 14(1):45-62.
25. Ramia, S. & **Sattar, S.A.** (1979). Simian rotavirus SA-11 plaque formation in the presence of trypsin. *J. Clin. Microbiol.* 10:609-614.
26. Ramia, S. & **Sattar, S.A.** (1980). Proteolytic enzymes & rotavirus SA-11 plaque formation. *Can. J. Comp. Med.* 44:232-236.
27. Ramia, S. & **Sattar, S.A.** (1980). Concentration of seeded simian rotavirus SA-11 from potable waters by using talc-Celite layers & hydroextraction. *Appl. Environ. Microbiol.* 39:493-499.
28. Ramia, S. & **Sattar, S.A.** (1980). Rotavirus concentration from cell culture harvests: trypsin treatment followed by hydroextraction. *Appl. Environ. Microbiol.* 40:1133-1135.
29. Ramia, S. & **Sattar, S.A.** (1980). The role of trypsin in plaque formation by simian rotavirus SA-II. *Can. J. Comp. Med.* 44:433-439.
30. **Sattar, S.A.** & Ramia, S. (1981). Waterborne transmission of viral infections: Implications for the developing world. *J. Pak. Med. Assoc.* 31:181-185.
31. **Sattar, S.A.**, R.A. Raphael, H. Lochnan & V.S. Springthorpe. (1983). Rotavirus inactivation by chemical disinfectants & antiseptics used in hospitals. *Can. J. Microbiol.* 29:1464-1469.
32. Payment, P., Trudel, M., **Sattar, S.A.**, Springthorpe, V.S., Subrahmanyam, T.P., Gregory, B.E., Vajdic, A.H., Blaskovic, P., Guglielmi, I.J. & Kudrewko, O. (1984). Virological examination of drinking water. A Can. collaborative study. *Can. J. Microbiol.* 30:105-112.
33. **Sattar, S.A.**, Raphael, R.A. & Springthorpe, V.S. (1984). Rotavirus survival in conventionally-treated drinking water. *Can. J. Microbiol.* 30:653-656.
34. **Sattar, S.A.**, Ijaz, M.K., Johnson-Lussenburg, C.M. & Springthorpe, V.S. (1984). Effect of relative humidity on the airborne survival of rotavirus SA-II. *Appl. Environ. Microbiol.* 47:879-881.
35. Ijaz, M.K., **Sattar, S.A.**, Johnson-Lussenburg, C.M. & Springthorpe, V.S. (1984). Comparison of the

- airborne survival of calf rotavirus & poliovirus type 1 (Sabin) aerosolized as a mixture. *Appl. Environ. Microbiol.* 49:289-293.
36. Raphael, R.A., **Sattar, S.A.** & Springthorpe, V.S. (1985). Rotavirus concentration from raw water using positively charged filters. *J. Virol. Methods* 11:131-140.
 37. Raphael, R.A., **Sattar, S.A.** & Springthorpe, V.S. (1985). Long- term survival of human rotavirus in raw & treated river water. *Can. J. Microbiol.* 31:124-128.
 38. **Sattar, S.A.**, Raphael, R.A. & Springthorpe, V.S. (1985). Rotavirus survival in raw & treated waters & its health implications. *Water Sci. Tech.* 17:7-14.
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9. **Sattar, S.A.** (June 1978). Discharge of raw sewage & viral pollution of the Ottawa River. Staff of Environment Canada & the Ont. Ministry of the Environment, Hull, QC.
10. **Sattar, S.A.** (Nov. 1978). Viruses in sewage & water. Eastern Regional Seminar for the Ont. Ministry of the Environment, Brockville, ON.
11. **Sattar, S.A.** (Nov. 1978). Viral pollution of the Ottawa River & its possible impact on the quality of potable & recreational waters. Meeting of the Committee on Air & Water Pollution, City Hall, Ottawa, ON.
12. **Sattar, S.A.** (Feb. 1979). Pollution of water & its impact on human health. Meeting of the Ottawa West Women's Liberal Assoc., Ottawa, ON.
13. **Sattar, S.A.** (Mar. 1979). Viral pollution of water & human health. Advanced Microbiology course for Senior Medical Technologists, Algonquin College, Ottawa, ON.
14. **Sattar, S.A.** (May 1979). Viruses in Public water supplies. Annual Conference of the Ont. Section of the Am. Water Works Assoc., Hamilton, ON.
15. **Sattar, S.A.** (May-June 1979). Viral pollution & boundary waters: the Ottawa River study. Annual Conference of the Canadian Water Resources Assoc., Ottawa, ON.
16. **Sattar, S.A.** (June 1979). Pollution of the Ottawa River: our beaches & our drinking water. Public lecture to commemorate World Environment Day, Ottawa, ON.
17. **Sattar, S.A.** (Aug. 1979). Virus removal & disinfection in sewage & water treatment plant operation. Ont. Min. of the Environ. Chief Operator's Conf. Kingston, ON.
18. **Sattar, S.A.** (Sept. 1979). Studies on sewage pollution of the Ottawa River. Staff of the National Capital Commission, Ottawa, ON.
19. **Sattar, S.A.** (Sept. 1979). Water & our health. Islamic Centre, Ottawa, ON
20. Ramia *, S. & **Sattar, S.A.** (Dec. 1979). Rotavirus transmission by the water route: techniques for their recovery from potable waters. Symposium on Environmental Pollution & its Impact on Health, Toronto, ON.
21. **Sattar, S.A.** (Dec. 1979). Viruses, Water & Health. A series of four lectures given at the Univ. of Karachi, Karachi, Pakistan.
22. **Sattar, S.A.** (Mar. 1980). Viruses in Water. Ont. Min. of Environ., Thunder Bay, ON.
23. **Sattar, S.A.** (Sept., 1980). Virus survival in receiving waters. Theme paper, International Symp. on "Viruses & Wastewater Treatment". Univ. of Surrey, Guildford, England.
24. **Sattar, S.A.** (Nov. 1980). Viral pollution of water with particular reference to studies on the Ottawa River. Laboratoire de Bactériologie et Hygiène, U.E.R. de Médecine et Technique Médicales, Nantes, France.
25. **Sattar, S.A.** (Nov. 1980). Viral pollution of water with special reference to studies on rotaviruses. Faculté de Pharmacie, Uni. de Nancy, Nancy, France.
26. **Sattar, S.A.** (Nov. 1980). Sewage disposal & viral pollution of the Ottawa River. Laboratoire d'épidémiologie virale, Ministère de la Santé, Lyon, France.
27. **Sattar, S.A.** (Jan. 1981). Selected topics in Medical Virology. A series of four lectures at the Dept. of Microbiology, Univ. of Karachi, Karachi, Pakistan.
28. **Sattar, S.A.** (Feb. 1981). Viruses, water & health. Rotary Club, Mirpurkhas, Pakistan.
29. **Sattar, S.A.** (Mar. 1981). Viral diseases - an important problem of human health. Pakistan Council of Scientific & Industrial Research, Karachi, Pakistan.
30. **Sattar, S.A.** (May 1981). Development of techniques for the recovery of rotaviruses from the water environment. International Centre for Diarrheal Dis. Res., Dhaka, Bangladesh.
31. **Sattar, S.A.** (June 1981). Viruses, water & health. Department of Microbiology, Univ. of Singapore, Republic of Singapore.
32. **Sattar, S.A.** (Feb. 1982). "Environmental aspects & modes of transmission of rotaviral infections",

- WHO's Diarrheal Dis. Contr. Program, Geneva, Switzerland.
33. **Sattar, S.A.** (Mar. 1983). Viruses & the Ottawa River: our beaches & drinking water. Ottawa Bacteriology Club, Ottawa, ON.
 34. **Sattar, S.A.**, Lloyd-Evans*, N., Ijaz, M.K., Raphael, R.A. & Springthorpe, V.S. (Sept. 1984). Environmental contamination as a mode of transmission of rotavirus infections. XI International Congress for Trop. Med. & Malaria, held in Calgary, AB.
 35. **Sattar, S.A.** (May 1985). Some views on the effectiveness of the TOKTEN & National Talent Pool Schemes. Presented at the workshop on "The Role of Pakistani-Canadian Scientists in Promoting the Economic Develop. of Pakistan", Ottawa, ON.
 36. **Sattar, S.A.** (June 1984). Decontamination & sterilization with heat treatment & liquid chemical germicides. The course on Lab. Biosafety, organized by the Bureau of Infection Control, Health & Welfare Canada, Ottawa, ON.
 37. **Sattar, S.A.** (June 1985). Chemical disinfection. The course on Lab. Biosafety, organized by the Bureau of Infection Control, Health & Welfare Canada, Ottawa, ON
 38. **Sattar, S.A.** (Aug. 1985). Viruses & drinking water. The course in Epidemiol. & Community Med., Faculty of Health Sciences, Univ. of Ottawa, Ottawa, ON.
 39. **Sattar, S.A.** (Jan. 1986). The spread of viral diseases through food & water. Pakistan Council of Scientific & Industrial Research, Karachi, Pakistan.
 40. **Sattar, S.A.** (Jan. 1986). Smallpox eradicated: which virus disease next? The Aga Khan Medical College, Karachi, Pakistan.
 41. **Sattar, S.A.** (Feb. 1987). Water supply, sanitation & health in the developing world. Ottawa Bacteriology Club, Ottawa, ON.
 42. **Sattar, S.A.** (Aug. 1989). The role of vehicles in the transmission of viral infections. Dept. of Microbiology, Univ. of Karachi, Karachi, Pakistan.
 43. **Sattar, S.A.** (June 1989). Chemical germicides. Lecture presented at the Biosafety Course organized by the Office of Biosafety, L.C.D.C., Hlth. Canada, Ottawa, ON.
 44. **Sattar, S.A.** (Nov. 1989). Viruses & human health. Lecture at the Career Week, Henry Munro Middle School, Gloucester, ON.
 45. **Sattar, S.A.** (May 1990). Vehicular spread of rotaviral gastroenteritis: Strategies for prevention & control. Lehn & Fink Ltd., Montvale, NJ.
 46. **Sattar, S.A.** (June 1990). Sterilization & disinfection in laboratory safety. The Course on Laboratory Biosafety, organized by the Office of Biosafety, Health Canada, Ottawa, ON
 47. **Sattar*, S.A.** & Springthorpe, V.S. (July, 1990). Testing of chemical disinfectants for virucidal activity. Round Table discussion at the Am. Soc. Microbiol. International Symp. on Chemical Germicides, Atlanta, GA.
 48. **Sattar*, S.A.**, Kalicharran, K.K. & Springthorpe, V.S. (Dec. 1990). Studies on the stability & stabilization of the adeno-rabies recombinant vaccine. Ont. Ministry of Natural Resources' Rabies Advisory Committee, Maple, ON.
 49. **Sattar, S.A.** (Jan. 1991). Chemical disinfection & food safety. Course on Food Safety, Food Research Centre, Agriculture Canada, Ottawa, ON.
 50. **Sattar, S.A.** (June 1991). Rotaviral gastroenteritis: Mechanisms of spread & approaches to prevention & control. Lehn & Fink Products, Montvale, NJ.
 51. **Sattar, S.A.** (June 1991). Sterilization & disinfection in laboratory safety. Course on Laboratory Biosafety, Office of Biosafety, Health & Welfare Canada, Ottawa, ON
 52. **Sattar, S.A.** (July 1991). Global significance of rotaviral gastroenteritis & approaches to its prevention & control. Medicine/Pediatric Grand Rounds, King Faisal Specialist Hosp. & Research Centre, Riyadh, Saudi Arabia.
 53. **Sattar, S.A.** (July 1991). Survival & disinfectant inactivation of human immunodeficiency virus & control & prevention of hospital acquired viral infections. Lecture Series for Technologists, King Faisal Specialist Hosp. & Research Centre, Riyadh, Saudi Arabia.
 54. **Sattar, S.A.** (July 1991). Prevention & control of nosocomial infections with particular emphasis on viral diseases. Medicine Grand Rounds, King Faisal Specialist Hosp. & Research Centre, Riyadh, Saudi Arabia.
 55. **Sattar*, S.A.**, Kalicharran, K.K. & Springthorpe, V.S. (Sept. 1991). Studies on the stability & production of a recombinant human adenovirus-rabies vaccine. International Symp. on 'Control of Rabies in Americas', Ottawa, ON

56. **Sattar, S.A.** (Sept. 1991). Prevention & control of rotaviral infections. Seminar on Rotaviral Gastroenteritis organized by L&F Products, New York, NY.
57. **Sattar, S.A.** (Oct. 1991). Chemical disinfection of virus-contaminated physical structures. The Foreign Animal Diseases Course, Agriculture Canada, Ottawa, ON
58. **Sattar, S.A.** (Nov. 1991). Chemical disinfection in domestic settings. The first meeting of International Infection Control Council, New York, NY.
59. **Sattar*, S.A.**, Mbithi, J.N. & Springthorpe, V.S. (Dec. 1991). Human hands as vehicles for hepatitis A virus: Studies on virus survival & transfer. Keynote paper at the International Conf. on Virology in the Tropics, Lucknow, India.
60. **Sattar, S.A.** (Dec. 1991). Rotaviruses: Global significance & environmental aspects. Depart. of Environmental Engr., Indian Institute of Technol., Kanpur, India.
61. **Sattar, S.A.** (Jan., 1992). Virucidal & mycobactericidal activity of chemical disinfectants: Current concerns on test protocols & product efficacy. Animal Diseases Research Institute, Agriculture Canada, Ottawa, ON
62. **Sattar, S.A.** (Mar. 1992). Chemical disinfection & food safety. Course on Food Safety, Centre for Food & Animal Research, Agriculture Canada, Ottawa, ON
63. **Sattar, S.A.** (Mar. 1992). The past, present & future of chemical germicides. Ottawa Bacteriology Club, Ottawa, ON
64. **Sattar*, S.A.** & Springthorpe, V.S. (Mar. 1992). Chemical disinfection of retroviruses. 5th National Forum on AIDS, Hepatitis & other Blood-borne Diseases, Atlanta, GA.
65. **Sattar, S.A.** (Oct., 1992). Transmission & control of rotavirus infections. International Symp. on Cholera & other Gastrointestinal Diseases, Hamburg, Germany.
66. **Sattar, S.A.** (Oct. 1992). Decontamination of rotavirus-contaminated animate & inanimate surfaces. Schülke & Mayr, Hamburg, Germany.
67. **Sattar, S.A.** (June 1992). Sterilization & disinfection in laboratory safety. Course on Laboratory Biosafety, Office of Biosafety, Health & Welfare Canada, Ottawa, ON
68. **Sattar, S.A.** (Oct. 1992). Transmission of human pathogens by environmental surfaces & human hands: Approaches to its prevention & control. Seminar to the technical & scientific staff at S.C. Johnson & Sons, Inc., Racine, WI.
69. Springthorpe*, V. S. & **Sattar, S.A.** (May, 1993). Sporicidal tests. Ann. Meeting of the Chemical Specialties Manufacturing Assoc.(CSMA), Chicago, IL.
70. **Sattar, S.A.** (June 1993). Sterilization & disinfection in laboratory safety. Course on Laboratory Biosafety, Office of Biosafety, Health & Welfare Canada, Ottawa, ON
71. Springthorpe*, V. S., Thuswaldner, L. L., Laframboise, D., M., Burke, T., J., & **Sattar, S. A.** (July, 1993). Sporicide test development. Keynote paper at the 107th Meeting of the Assoc. Off. Analyt. Chem. (AOAC), Washington, DC.
72. **Sattar, S. A.** (Sept. 1993). Does disinfection of hard surfaces prevent the spread of viral infections? Meeting of the International Infection Control Council, Montvale, NJ.
73. **Sattar, S.A.** & Springthorpe*, V.S. (Oct. 1993). Disinfection of retroviruses. Keynote paper at the Symp. on the Survival of HIV When Subjected to Environmental Stress, sponsored by the U.S. National Sci. Foundation, Washington, D.C & the School of Hygiene & Public Health, Johns Hopkins Univ., Baltimore, MD.
74. **Sattar*, S.A.** & Chaudhuri, M. (Jan. 1994). Coal-based sorbents for treatment of water for drinking. Presentation to a panel of experts on drinking water technology for developing countries, International Development Research Centre, Ottawa, ON
75. **Sattar*, S.A.** & Springthorpe, V.S. (May 1994). Methods under development for evaluating the antimicrobial activity of chemical germicides. APIC post-conf. International Symp. on Chem. Germicides in Health Care, Cincinnati, OH.
76. Springthorpe*, V.S., **Sattar, S.A.** & Mbithi, J.N. (May 1994). Microbicidal activity of chemical sterilants under reuse conditions. APIC post-conf. International Symp. on Chem. Germicides in Health Care, Cincinnati, OH.
77. **Sattar*, S.A.** & Springthorpe, V.S. (May-June 1994). Antiviral activity of topical antiseptics: Tests using inanimate surfaces & fingerpads. 'The First Workshop on Antiviral Claims for Topical Antiseptics', sponsored by U.S. Food & Drug Admin., Bethesda, MD.
78. **Sattar, S.A.** (June 1994). Hands as vehicles for bacterial & viral infections. Seminar at Sharon Woods Technical Center, The Procter & Gamble Co., Cincinnati, OH.

79. **Sattar, S.A.** (Sept., 1994). Potential of chemical germicides in preventing the spread of infectious diseases. Technical Center, The Clorox Co., Pleasanton, CA.
80. **Sattar, S.A.** (Nov. 1994). Global impact of infectious diseases on human health. Lecture at the first meeting of the Advisory Board for the Organization for Control of Infections in Domestic Settings. Madrid, Spain.
81. **Sattar, S.A.** (Nov. 1994). Chemical disinfection & handwashing in interrupting the spread of infectious diseases. Presented at the first meeting of the Organization for Control of Infections in Domestic Settings. Madrid, Spain.
82. **Sattar, S. A.** (Jan. 1995). Health-related environmental virology: An overview. Seminar presented at the Department of Biology, Univ. of Ottawa, Ottawa, ON.
83. **Sattar, S.A.** (Mar. 1995). Survival & disinfection of human pathogenic viruses. Seminar in the Department of Pharmacology, Univ. of Ottawa, Ottawa, ON
84. **Sattar, S.A.** (Mar. 1995). Biohazards in the work environment. Lecture given at the course offered by the Can. Assoc. of Lab. Animal Services, Ottawa, ON.
85. **Sattar, S.A.** (Mar. 1995). Virus disinfection of hands: The view of a North American expert. Lecture at the International Symposium on Hand Disinfection, Vienna, Austria.
86. **Sattar, S.A.** (April 1995). Preventing the spread of infections onboard cruise ships. Series of lectures given to the crew onboard two sailing cruise ships, Star Clippers, Coral Gables, FL.
87. Springthorpe*, V.S. & **Sattar, S.A.** (April 1995). Current research on testing the virucidal & sporicidal activity of chemical disinfectants. Presentation at the laboratory of the U.S. Food & Drug Administration, Boston, MA.
88. **Sattar, S.A.** (May 1995). Virus survival indoors & its implications on disease transmission & control. Seminar at the Public Health. Lab., London, ON
89. **Sattar, S.A.** (June 1995). Decontamination & sterilization using heat & chemical germicides. Two lectures at the Biosafety Course, Health Canada, Ottawa, ON
90. **Sattar, S.A.** (Sept. 1995). Virus spread through animate & inanimate surfaces: implications for infection control. Colgate-Palmolive Co., Piscataway, NJ.
91. **Sattar, S.A.** (Sept. 1995). Viruses & hand antisepsis. Seminar at a meeting sponsored by Remington Medical, Toronto, ON
92. **Sattar, S.A.** (Oct. 1995). Viruses, environment & health: a primer for teachers. Canadian College of Teachers, Ottawa Chapter, Ottawa, ON
93. **Sattar, S.A.** (Dec. 1995). Impact of viral diseases on the productivity of humans & animals. Lecture at the Faculty of Animal Husbandry & Veterinary Medicine, Sindh Agriculture Univ., Tandojam, Sindh, Pakistan.
94. **Sattar, S.A.** (Dec. 1995). Chemical germicides & viruses: the first line of defence. Faculty of Sci., Univ. of Karachi, Karachi, Pakistan.
95. **Sattar, S.A.** (April 1996). Environ. spread & germicide control of viruses. Ann. Meeting of the Community & Hosp. Infect. Control Assoc. (CHICA) of Canada, Vancouver, BC.
96. **Sattar, S.A.** (April 1996). Use of disinfectants as virucides. Annual Mid-Year Meeting of the Chem. Specialties Manufacturers Assoc. (CSMA), Chicago, IL.
97. **Sattar, S.A.** (May 1996). Application of disinfectants & antiseptics in the home. Workshop on Foodborne Diseases in the Home, held at the 96th Annual Meeting of the Am. Soc. Microbiol., New Orleans, LA.
98. **Sattar, S.A.** & M. Chaudhuri (June 1996). Potential of coal-based sorbents in the removal of pathogens, heavy metals, & toxins from drinking water. Workshop on Toxins in Drinking Water, sponsored by the International Develop. Res. Centre, Ottawa, Canada.
99. **Sattar, S.A.** (June 1996). Sterilization & disinfection in laboratory safety. Course on Laboratory Biosafety, Office of Biosafety, Health & Welfare Canada, Ottawa, ON
100. **Sattar, S.A.** (Aug., 1996). Do Islamic countries have a lower burden of infectious disease? The International Islamic Univ., Kuala Lumpur, Malaysia.
101. **Sattar, S.A.** (Oct. 1996). The significance of chemical germicides in interrupting the environmental spread of infectious agents. Healthcare Division of The Procter & Gamble Co., Mason, OH.
102. **Sattar, S.A.** (Nov. 1996). Do we overestimate the activity of our disinfectants? Meeting of the Ottawa Organization for Practitioners in Infection Control, Ottawa, Civic Hosp., Ottawa, ON
103. **Sattar, S.A.** (Nov. 1996). High level disinfection & sterilization of medical devices using liquid chemicals: Current status & future directions. Meeting of the Ont. Hosp. Assoc., Toronto, ON
104. **Sattar, S.A.** (Dec. 1996). The need & criteria to evaluate the bactericidal & virucidal activities of

- germicidal products. Tech. Center, Colgate-Palmolive Co., Piscataway, NJ.
105. Springthorpe*, V.S., Hamilton, M. & **Sattar, S.A.** (Dec. 1996). Development & testing of a new quantitative carrier test for sporicides. Meeting of U.S. Food & Drug Administration & the Environmental Protection Agency, Washington, DC.
 106. **Sattar, S.A.*** & Springthorpe, V.S. (April 1997). Are there any health risks in handling biosolids? Annual Meeting of the Water Environ. Assoc. of Ont., London, ON
 107. **Sattar, S.A.** (May 1997). Testing hand disinfectants for virucidal properties: The Canadian approach. Presentation at the 14th Dosch Symposium to commemorate 150th anniversary of the 'invention' of hand antisepsis by I. Semmelweis, Vienna, Austria.
 108. **Sattar, S.A.** (May 1997). Preventing pathogen transmission by animate & inanimate surfaces. Presentation at the symposium on Preventing the Environmental Transmission of Pathogens, 97th Annual Meeting of the Am. Soc. Microbiol., Miami Beach, FL.
 109. **Sattar, S.A.** (June 1997). Topical antimicrobials & viruses: Some comments. Presentation at the symposium on The Healthcare Continuum Model, Washington, DC.
 110. **Sattar, S.A.** (June 1997). Microbiocidal testing of germicides: An update. Presentation at the International Symposium on Sterilization, Disinfection & Antisepsis: Current Topics & Future Challenges, held in June, 1997, in New Orleans, LA.
 111. Springthorpe, V.S. & **Sattar, S.A.*** (Sept. 1997). A new quantitative sporicide test: Concepts, development & current status. Presentation at the Annual Conference of AOAC International, held in San Diego, CA.
 112. **Sattar, S.A.** (Oct. 1997). Antiviral claims for topicals. Dial Corp., Scottsdale, AZ.
 113. **Sattar, S.A.** (Nov. 1997). Is there a health risk associated with biosolids? Presentation at Conference of the Professional Waste Water Operations Division (Ont.), Cornwall, ON.
 114. **Sattar, S.A.** (Jan. 1998). The virus-eliminating activity of topicals: The current status of testing standards & government regulations. Procter & Gamble Co., Cincinnati, OH.
 115. **Sattar, S.A.** (Feb. 1998). Standardized testing of microbiocides: Relevance to biofilm decontamination. Keynote address at the winter Tech. Advisory Committee meeting of the Center for Biofilm Engr., Bozeman, MN.
 116. **Sattar, S.A.** (May 1998). Chemical Germicides: Evaluation & Application in Infection Control. Dept. of Microbiology, Univ. of New Hampshire, Durham, NH.
 117. **Sattar, S.A.*** Chauret, C., Springthorpe, V.S., Battigelli, D. & Abbaszadegan, M. Factors affecting the survival of *Cryptosporidium* oocysts & *Giardia* cysts in watersheds. (May 1998). Am. Water Works Assoc. Res. Foundation (AWWARF) Tech. Transfer Conference. Boston, MA.
 118. **Sattar*, S.A.** & Springthorpe, V.S. (June 1998). Testing germicides: What policy & management issues require consideration? U.S. Environmental Protection Agency's Workshop on Germicide Test Methodology, Washington, DC.
 119. **Sattar, S.A.** (June 1998). Recent developments in testing chemical germicides for their microbicidal activity. Technical meeting of the Can. Manufacturers of Chem. Specialties, Toronto, ON
 120. **Sattar, S.A.** (June 1998). Germicidal activity of topicals & the Health Care Continuum Model. Workshop of Chem. Specialties Manufacturers Assoc./Soap & Detergents Assoc., Washington, DC.
 121. **Sattar, S.A.** (June 1998). Workshop on Developing a Protocol for Testing the Efficiency of Disinfectants Used to Inactivate Hepatitis B Virus. U.S. Environmental Protection Agency, Washington, DC.
 122. **Sattar, S.A.** (July 1998). Elimination of viruses & interruption of their transfer from hands. U.S. Food & Drug Administration's Nonprescription Drugs Advisory Committee (NDAC), held in Washington, DC.
 123. **Sattar,* S.A.**, Bidawid, S. & Farber, J. (Aug. 1998). Detection & thermal inactivation of hepatitis A virus in foods. Ann. Meeting of the International Assoc. of Milk, Food & Environ. Sanitarians, held in Nashville, TN.
 124. **Sattar, S.A.** (Sept. 1998). Survival & spread of pathogens: The role of chemical germicides in their environmental control. National Conf. of the Canadian Institute of Public Health Inspectors, held in Ottawa, ON
 125. **Sattar, S.A.*** Chauret, C., Springthorpe, V.S., Battigelli, D. & Abbaszadegan, M. Factors affecting the survival of *Cryptosporidium* oocysts & *Giardia* cysts in watersheds. (Sept. 1998). Am. Water Works Assoc. Res. Foundation (AWWARF) Tech. Transfer Conference. San Francisco, CA.
 126. **Sattar, S.A.** (Sept. 1998). Viral infections & the role of chemical germicides in preventing their spread. Johnson & Johnson Medical, Arlington, TX.

127. **Sattar, S.A.** (Sept. 1998). Sterilization & disinfection in laboratory safety. Course on *Laboratory Biosafety: Principles & Practices*, offered by the Centre for Res. Environ. Microbiol., Ottawa, ON
128. **Sattar, S.A.** (Oct. 1998). Germicidal test methodology: Current status & future needs. The Procter & Gamble Co., Cincinnati, OH.
129. **Sattar, S.A.** (Nov. 1998). Broad-spectrum germicidal activity of products based on accelerated & stabilized hydrogen peroxide. Chemfair99, Toronto, ON
130. **Sattar, S.A.** (Dec. 1998), Strategies for using disinfectants to achieve optimum antimicrobial benefits. Conf. of the Chemical Specialties Manufacturers Assoc., Fort Lauderdale, FL.
131. **Sattar, S.A.** (Dec. 1998). Chemical germicides in infection control: Current issues & concerns. Third International Conference on Infection Control of the Infection Control Soc. of Pakistan, held in Karachi, Pakistan.
132. **Sattar, S.A.** (Dec. 1998). Viruses & nosocomial infections: Significance, mechanisms of spread & approaches to environmental control. Third International Conference on Infection Control of the Infection Control Soc. of Pakistan, held in Karachi, Pakistan.
133. **Sattar, S.A.** (Jan. 1999). Ecology & pathogens. Faculty of Sci., Univ. of Karachi, Karachi, Pakistan.
134. **Sattar, S.A.** (Feb. 1999). Societal trends & at-risk populations: Possible impact on home hygiene. Roundtable on *Perspectives on Home Hygiene*, held at Columbia Univ., New York, NY.
135. **Sattar, S.A.** (Feb. 1999). Public health implications of viruses in the environment. Stanier Soc.'s Conf. on *Controlling the Spread of Infections*, held in Toronto, ON
136. Springthorpe, V.S. & **Sattar, S.A.** (Mar., 1999). Quantitative carrier tests for evaluating the germicidal activity of chemicals. Presentation to the Antimicrobials Division of the U.S. Environ. Protection Agency, Washington, DC.
137. **Sattar, S.A.** (May 1999). The impact of infectious diseases on human health. Lecture in a one-day course on *The Need, Testing & Application of Chemical Germicides*, Virox Technologies, Inc., Mississauga, ON
138. **Sattar, S.A.** (May 1999). The relative strengths & weaknesses of major classes of chemical germicides. Lecture in a one-day course on *The Need, Testing & Application of Chemical Germicides*, Virox Technologies, Inc., Mississauga, ON
139. Springthorpe*, V.S. & **Sattar, S.A.** (May, 1999). Testing & registration of chemical germicides in Canada, U.S. & Europe. Lecture in a one-day course on *The Need, Testing & Application of Chemical Germicides*, Virox Technologies, Inc., Mississauga, ON
140. **Sattar, S.A.** (June 1999). The potential for acquisition of pathogens by hands. An invited paper for Symposium on *Current Topics in Home Hygiene*. Ann. Meeting of Am. Soc. Microbiol., Chicago, IL.
141. **Sattar, S.A.** (June 1999). Sterilization & disinfection in laboratory safety. Course on *Laboratory Biosafety: Principles & Practices*, offered by the Centre for Res. Environ. Microbiol., Winnipeg, MB.
142. **Sattar, S.A.** (July 1999). The testing, use & registration of chemical germicides; Current issues & concerns. First Antimicrobial Res. Conf., Univ. of Cardiff, Cardiff, Wales.
143. **Sattar, S.A.** (Oct. 1999). Cellular receptors for viruses. Seminar at Colgate-Palmolive Co., Piscataway, NJ.
144. **Sattar, S.A.** (Oct. 1999). Chemical germicides & their use in biosafety. Lecture in the Am. Biol. Safety Assoc. pre-conference course on "Advanced Disinfection". St. Louis, MO.
145. **Sattar, S.A.** (Oct. 1999). Chemical germicides & recent developments in the assessment of their activity. Ann. Meeting of the Am. Biol. Safety Assoc. St. Louis, MO.
146. **Sattar, S.A.** (Oct. 1999). What to look for when selecting a chemical germicide. Roundtable at the Ann. Meeting of the Am. Biol. Safety Assoc. St. Louis, MO.
147. Best*, M. & **Sattar, S.A.** (Oct. 1999). Efficacy of disinfectants against mycobacteria including drug resistant strains. Roundtable at the Ann. Meeting of the Am. Biol. Safety Assoc. St. Louis, MO.
148. **Sattar, S.A.** (Feb. 2000). The impact of societal changes on domestic hygiene in industrialized countries: The situation in Europe. Symposium on 'New Insights in Domestic Hygiene & Infection in the Home, Institut Pasteur, Paris, France.
149. **Sattar, S.A.** (Mar. 2000). Microbes & drinking water: A reality check. Paper presented at the inauguration of the Institute of the Environment, Univ. of Ottawa, Ottawa, ON.
150. **Sattar, S.A.** (May 2000). Resistance of viruses to chemical germicides. Presentation at a technical symposium organized by The Procter & Gamble Co., Cincinnati, OH.

151. **Sattar, S.A.** (May, 2000). Chemical germicides in infection control: fundamentals of product testing, selection & use Ann. Meeting of the Community & Hosp. Infect. Control Assoc. (CHICA) of Canada, Toronto, ON.
153. **Sattar*, S.A.** & Springthorpe, V.S. (June 2000). Quantitative & unified methods for testing disinfectants against a wide array of microorganisms. Mid-year meeting of the Chem. Specialties Manufac. Assoc., Chicago, IL.
154. **Sattar*, S.A.** & Springthorpe, V.S. (June 2000). New methods for efficacy testing of disinfectants & antiseptics. Assoc. Professionals in Infection Control's post conf. symp. on *Disinfection, Antisepsis, & Sterilization*, held in Minneapolis, MN.
155. **Sattar, S.A.** (June 2000). Survival of microorganisms on animate & inanimate surfaces & their disinfection. Assoc. Professionals in Infection Control & Epidemiology post conf. symp. on *Disinfection, Antisepsis, & Sterilization*, held in Minneapolis, MN.
156. **Sattar, S.A.** (Sept. 2000). New & fully quantitative carrier tests for testing the germicidal activity of chemicals. French Soc. of Microbiol. Symp. on Antiseptics & Disinfectants, Lyon, France.
157. **Sattar, S.A.** (Sept. 2000). An introduction to viruses. Lecture at The Dial Corp., Scottsdale, AZ.
158. **Sattar, S.A.** (Sept. 2000). Testing germicides against viruses. Lecture at The Dial Corp., Scottsdale, AZ.
159. **Sattar, S.A.** (Aug., 2000). Application & testing chemical germicides in infection control. Seminar at Ecolab, St. Paul, MN.
160. **Sattar, S.A.** (Aug., 2000). Problems with currently used chemical germicides & prospects for improvements. Seminar at Virox Technologies, Mississauga, ON.
161. Springthorpe*, V.S. & **Sattar, S.A.** (Sept., 2000). Quantitative methods for assessing the germicidal activity of chemicals. Presentation at a meeting of the Antimicrobials Division of the U.S. Environ. Protection Agency, Washington, D.C.
162. **Sattar, S.A.** (Jan. 2001). The downside of societal changes in our on-going struggle against infectious diseases. Institut Pasteur's International Symp. on Hygiene & Health, Paris, France.
163. **Sattar, S.A.** (Feb. 2001). Testing of chemical disinfectants using new & fully quantitative carrier test methods. Lecture at The Procter & Gamble Co., Cincinnati, Ohio.
164. Springthorpe, V.S., Kibbee, R. & **Sattar, S.A.** (Mar., 2001). The potential of peroxide-based products to clean milking equipment. 3rd Milky Way Meeting of the Dairy Farmers Assoc. of Canada, Ottawa, ON.
165. **Sattar, S.A.** (Mar. 2001). New disinfectants & sterilants: How to choose them as infection control nurses. Advanced course in Infection Control organized by the Asia Pacific Soc. for Infection Control, Hong Kong.
166. **Sattar, S.A.** (Mar. 2001). Approaches to reducing the waterborne spread of infections in healthcare settings. Advanced course in Infection Control organized by the Asia Pacific Soc. for Infection Control, Hong Kong.
167. **Sattar, S.A.** (Mar. 2001). Environmental survival & transfer of human pathogens: Relevance to infection control. Course organized by the Hosp. Authority, Hong Kong.
168. **Sattar, S.A.** (Mar. 2001). Current issues in the testing of chemical germicides & their selection for use in hospitals. Course organized by the Hosp. Authority, Hong Kong.
169. **Sattar, S.A.** (Mar. 2001). Recent developments in sterilization & disinfection in infection control. Course organized by the Hosp. Authority, Hong Kong.
170. **Sattar, S.A.** (Mar. 2001). Waterborne spread of infections: The changing profile of pathogens. Course organized by the Hosp. Authority, Hong Kong.
171. **Sattar*, S.A.** & M.K. Ijaz (May 2001). The use of surrogate viruses to study the environmental survival & chemical disinfection of hepatitis C virus. First Can. Conf. on Hepatitis C, Montreal, QC.
172. **Sattar, S.A.** (June 2001). The need, selection & use of chemical germicides: a critical assessment. Johnson Wax Professional, Racine, WI.
173. **Sattar, S.A.** (June 2001). Recent developments in testing the germicidal activity of chemicals. Johnson Wax Professional, Racine, WI.
174. **Sattar*, S.A.** Springthorpe, V.S. (October 2001). Testing chemical disinfectants: a quantitative & unified approach. Presentation at a meeting of the Subcommittee E35.15 (Germicides), ASTM International, Dallas, TX.
175. **Sattar, S.A.** (June 2001). Glutaraldehyde-based disinfectants: the good, the bad & the alternatives. Teleclass for Healthcare professionals, WebberTraining/CREM.

176. **Sattar, S.A.** (Feb. 2002). Hospitals discharging blood into sanitary sewers: should pathogens be a concern? Stakeholders meeting with Ontario Ministry of the Environment, Ottawa Hosp. (General Campus), Ottawa, ON.
177. Bidawid*, S., **Sattar, S.A.**, J. Farber (Mar. 2002). Hepatitis A & Norwalk-like viruses in foods. The Centre for Food Safety, Univ. of Georgia, Atlanta, GA.
178. **Sattar, S.A.** (April 2002). Virucidal activity of hand antiseptics. International Conf. Of the German Soc. for Hosp. Hygiene, Berlin, Germany.
179. **Sattar, S.A.** (April 2002). Virucidal activity of environmental surface disinfectants. International Conf. Of the German Soc. for Hosp. Hygiene, Berlin, Germany.
180. **Sattar, S.A.** & Springthorpe, V.S. (April 2002). Microbicides for hard surfaces: Contributions to the development of improved test methods. First International Workshop of the Organization for Economic Cooperation & Development (OECD) on Harmonization of Biocide Test Methodology, Washington, DC.
181. **Sattar, S.A.** & Springthorpe, V.S. (April 2002). Quantitative carrier test methods for hard surface disinfectants. First International Workshop of the Organization of Economic Cooperation & Development (OECD) on Harmonization of Biocide Test Methodology, Washington, DC.
182. **Sattar, S.A.** (April 2002). The impact of demographic & societal changes on hygiene & development: An international perspective. Conf. of the International Scientific Forum on Home Hygiene, New Delhi, India.
183. **Sattar, S.A.** (May 2002). Chemical germicides in healthcare housekeeping: Basic considerations in their selection & use. Ann. Meeting of the Ontario Healthcare Housekeepers Assoc., Toronto, ON.
184. **Sattar, S.A.** (May 2002). Chemical germicides in personal services: How effective, relevant & safe are they? Meeting of the Can. Institute for Pub. Hlth. Inspectors (CIPHI), Toronto, ON.
185. **Sattar, S.A.** (May 2002). Hands & the spread of viral infections: Facts & fantasies. Teleclass for healthcare professionals. WebberTraining/CREM.
186. **Sattar, S.A.** (Sept. 2002). Disinfection of enteric viruses in water for drinking, Symposium on Viruses in Water, Univ. of Barcelona, Barcelona, Spain.
187. **Sattar, S.A.** (Sept. 2002). The impact of infectious diseases in a changing world. Conference of the Can. Institute of Public Health Inspectors, Oshawa, ON.
188. **Sattar, S.A.** (Jan. 2003). Disinfectant testing & label claims: Are *you* asking the right questions? Teleclass for Healthcare professionals. WebberTraining/CREM.
189. **Sattar, S.A.** (Feb. 2003). Infectious bioweapons & their environmental decontamination: relevance to healthcare settings. Meeting of Health Canada's Working Group on Guidelines for Decontamination of People & Health Care Facilities Following a Bioterrorist Event, Calgary, AB.
190. **Sattar, S.A.** (Feb. 2003). Environmental survival & germicide inactivation of feline calicivirus: a surrogate for noroviruses. Health Canada's Workplace Health & Safety Training Program, Quebec City, QC.
191. **Sattar, S.A.** (Mar. 2003). Scientific solutions to the norovirus problem: survival & germicide inactivation of feline calicivirus, a surrogate for noroviruses, Seatrade Conference, Miami Beach, FL.
192. **Sattar, S.A.** (May 2003). Quantitative carrier tests for chemical germicides: an update & recommendations. Midyear conference of Chem. Specialty Products Assoc., Chicago, IL.
193. **Sattar, S.A.** (May 2003). Viruses & their role in nosocomial infections. International BODE Conference, Barcelona, Spain.
194. **Sattar, S.A.** (May 2003). The fundamentals of *in vivo* & *ex vivo* methods to test the antimicrobial activity of handwash & handrub agents. Pre-conference workshop at Am. Soc. Microbiol. Meeting, Washington, DC.
195. **Sattar, S.A.** (June 2003). Disinfection in long-term care facilities & the community: myths & realities. Ann. Conf. Commu. & Hosp. Infect. Control Assoc. Canada, Thunder Bay, ON.
196. **Sattar, S.A.** (June 2003). Testing & selection of microbicides for their potential to inactivate infectious bioweapons. Environ. Canada workshop on Restoration & Decontamination of Chem. Biological or Radiological Terrorist Actions. Ottawa, ON.
197. **Sattar, S.A.** & Springthorpe, V.S. (June 2003). Recent developments in methods for testing the germicidal activity of disinfectants & antiseptics. Assoc. Professionals in Infect. Control & Epidemiology (APIC) post conf. symp. on *Disinfection, Sterilization & Antisepsis: Principles, Practices, Challenges & New Research*, held in San Antonio, TX.
198. **Sattar, S.A.** (June 2003). Contributions of the environment to infectious disease transmission. Assoc. Professionals in Infection Control & Epidemiology (APIC) post conf. symp. on *Disinfection,*

- Sterilization & Antisepsis: Principles, Practices, Challenges & New Research*, held in San Antonio, TX.
199. **Sattar, S.A.** & Springthorpe, V.S. (Aug. 2003). Health implications of interactions between environmental chemicals & infectious agents: so close yet so far apart. Ann. Conf. International Union of Pure & Applied Chemistry (IUPAC), Ottawa, ON.
 200. **Sattar, S.A.** (Sept. 2003). Testing & label claims of microbicidal activity of chemical disinfectants used in environ. control. Barnett International's course on *Selecting, Using & Validating Disinfectants Used for Pharmaceutical Manufacturing*. Philadelphia, PA.
 201. **Sattar, S.A.** (Sept. 2003). Viruses & hand antisepsis: current status & a look ahead. Seminar at GOJO Industries, Akron, OH.
 202. **Sattar, S.A.** (Nov. 2003). Current issues in testing, selection & use of microbicides in infection control. Ann. Conf. of the International Federation of Infection Control, Malta.
 203. **Sattar, S.A.** (Dec. 2003). Viruses as nosocomial pathogens. Video conference, Dutch Soc. of Infect. Control Nurses, Amsterdam, Holland.
 204. **Sattar, S.A.** (Dec. 2003). Airborne spread of human pathogens: hold your breath! Teleclass for healthcare professionals, WebberTraining/CREM.
 205. **Sattar, S.A.** (Feb. 2004). Microbicides in preventing the environmental spread of pathogens. Symp. of the Stanier Institute, Univ. of British Columbia, Vancouver, BC.
 206. **Sattar, S.A.** (Mar. 2004). Recent studies on the survival & microbicide inactivation of feline calicivirus: relevance to noroviruses. Health Canada-Industry Ann. Rev. & Operational Training Session on Workplace Safety, Vancouver, BC.
 207. **Sattar, S.A.** (April 2004). Viruses & their changing significance as nosocomial pathogens. Biennial International Conf. German Soc. Hosp. Hygiene, Berlin, Germany.
 208. **Sattar, S.A.** & Lapensee, C. (April 2004). Understanding microbicides from label to use. Meeting of the Can. Institute of Pub. Hlth. Inspectors, Toronto, ON.
 209. **Sattar, S.A.** (April 2004). Human health impact of infectious agents: relevance to bioweapons. One-day workshop on *Environmental Survival, Detection & Inactivation of Bioagents*, Canada Customs & Revenue Agency, Ottawa, ON.
 210. **Sattar, S.A.** (May 2004). The fundamentals of *in vivo* & *ex vivo* methods to test the antimicrobial activity of handwash & handrub agents. Pre-conference workshop at Am. Soc. Microbiol. Meeting, New Orleans, LA.
 211. **Sattar, S.A.** (June 2004). The environmental fate of human pathogens: relevance to assessing & interrupting the spread of bioagents. Proc. *First International Conf. On the Fate of Biological Agents*; June, 2004, Williamsburg, VA.
 212. **Sattar,* S.A.** & Springthorpe, V.S. (Sept. 2004). Dissecting disinfectant testing: fundamentals of test design & performance. AOAC International's symp. on "Disinfectant Test Methodology", St. Louis, MO.
 213. Springthorpe*, V.S., Perez, J. & **Sattar, S.A.** (Sept. 2004). The minutiae of surface disinfection with liquid chemicals. AOAC International's symp. on "Disinfectant Test Methodology", St. Louis, MO.
 214. **Sattar, S.A.** (Oct. 2004). The role of hands in the spread of nosocomial viral infections. ASTM International's symp. on "Over-the-Counter Topicals: Assessing the Need for Testing & Label Claims against Viruses". Washington, D.C.
 215. **Sattar, S.A.** (Oct. 2004). Viruses & nosocomial infections: the potential of microbicides in infection control. Institute of Virology, Bulgarian Acad. Sci., Sofia, Bulgaria.
 216. **Sattar, S.A.** (Nov. 2004). Harmonization of testing hard surface disinfectants in OECD member states; a proposal. OECD, Brussels, Belgium
 217. **Sattar, S.A.** (Nov. 2004). Killing pathogens safely: sustainable approaches to hygiene. International symp. on "Impact of Hygiene: Yesterday, Today & Tomorrow", Univ. of Oxford, Oxford, England.
 218. **Sattar, S.A.** (Nov. 2004). Designing post-graduate teaching of hygiene in Canada. London School of Hygiene & Tropical Medicine, Univ. of London, London, England.
 219. **Sattar, S.A.** (Nov. 2004). Current issues in hand hygiene: consensus & concerns. Lunch & Learn Series, 3M Canada, New Westminster, BC.
 220. **Sattar, S.A.** (Nov. 2004). Environmental spread of infectious agents & its interruption by microbicides. Technical Seminar Series, Virox Tech., Oakville, ON.
 221. **Sattar, S.A.** (Dec. 2004). Microbicides in infection control: Safety & environmental concerns. Dept. of Microbiol., Univ. of Karachi, Karachi, Pakistan.
 222. **Sattar, S.A.** (Dec. 2004). The expanding role of viruses as nosocomial pathogens: Approaches to

- environmental control. The Ziauddin Medical Univ., Karachi, Pakistan.
223. **Sattar, S.A.** (Jan. 2005). Carrier tests for hard surface disinfectants: Prospects for international harmonization. The Therapeutic Goods Administration, Govt. of Australia, Canberra, Australia.
 224. **Sattar, S.A.** (Jan. 2005). Current issues in hand hygiene: consensus & concerns. Lunch & Learn Series, 3M Canada, Toronto, ON.
 225. **Sattar, S.A.** (Feb. 2005). Environmental influences on pathogen survival, growth & spread. Symposium on 'Mechanisms of Seasonality of Directly Transmitted Infectious Diseases', Radcliffe Institute for Advanced Study, Harvard University, Cambridge, MA.
 226. **Sattar*, S.A.**, Springthorpe, V.S. & Hamilton, M.A. (April 2005). Harmonisation of hard surface disinfectant test methodology in OECD countries. Meeting of the OECD Task Force on Harmonization of Hard Surface Disinfectant Test Methodology, Ottawa, ON.
 227. **Sattar, S.A.** (May 2005). The increasing significance of viruses as nosocomial pathogens & approaches to environmental control. International Symp. on *Viruses & Disinfectants*. Paris, France.
 228. **Sattar, S.A.** (June 2005). The fundamentals of *in vivo* & *ex vivo* methods to test the antimicrobial activity of handwash & handrub agents. Pre-conference workshop at Am. Soc. Microbiol. Meeting, Atlanta, GA.
 229. **Sattar, S.A.** (June 2005). Societal changes & their impact on water-associated infections. Pathogen Risks Workshop. International Joint Commission's Great Lakes Conf., Kingston, ON.
 230. **Sattar, S.A.** (July 2005). The rationales behind quantitative carrier tests (QCT): relevance to assessing chemical microbicides against infectious bioagents & nosocomial pathogens. Two-day workshop on "How clean is clean: Setting decontamination standards for chemical & biological counter-terrorism". Volgograd, Russia.
 231. **Sattar, S.A.** (Sept. 2005). Noroviruses: capsid-covered enigmas. GOJO Industries, Akron, OH.
 232. **Sattar, S.A.** (Sept. 2005). Noroviruses as foodborne pathogens: recent studies on environmental survival & control. Food Research Institute, Univ. of Wisconsin, Madison, WI.
 233. **Sattar, S.A.** (Oct. 2005). The role of the environment in the transmission of bacteria & viruses amongst children. Symp. on 'Cleaning for a Healthy Indoor Environment for Children', Simmons College, Boston, MA.
 234. **Sattar, S.A.** (Oct. 2005). Microbiology issues in environmental sampling. Meeting of the Global Health Security Action Group (GHSAG), Pub. Hlth. Agency of Canada, Ottawa, ON.
 235. **Sattar, S.A.** (Nov. 2005). Interrupting the spread of nosocomial pathogens through environmental control. Symp. on Infection Prevention & Control, University Health Network, Toronto, ON.
 236. **Sattar, S.A.** (Dec. 2005). Using a hierarchy of microbicide resistance to hard surface disinfectants as an indicator of activity against emerging viral pathogens: a case for non-enveloped viruses. Presentation to the Anti-Microbials Div. of U.S. Environ. Protection Agency on behalf of the Innovation & Reform Group, Crystal City, VA.
 237. **Sattar*, S.A.**, Tetro, J. & Springthorpe, V.S. (Dec. 2005). Effects of environmental chemicals & the host-pathogen relationship: are there any negative consequences for human health? Symposium on 'Biocides: Old & New', PacifiChem 2005, Honolulu, Hawaii.
 238. **Sattar, S.A.** (Jan. 2006). The use of microbicides in infection control: A critical look at safety, testing & applications. First Denver Russell Memorial Lecture of the Soc. Appl. Microbiol., Winter Meeting, Royal Soc. of London, London, England.
 239. **Sattar, S.A.** (Jan. 2006). The emerging significance & environmental control of nosocomial viral pathogens. Welsh School of Pharmacy, Cardiff, Wales.
 240. **Sattar, S.A.** (Jan. 2006). Quantitative carrier tests for microbiocidal activity of chemicals: rationales & applications. U.K. Centre for Emergency Preparedness & Response, Porton Down, Salisbury, U.K.
 241. Springthorpe*, V.S. & **Sattar, S.A.** (Jan. 2006). Biological decontamination: important issues to consider during standards development. CRTI Restoration Workshop, Environ. Canada Tech. Centre, Ottawa, ON.
 242. Springthorpe*, V.S. & **Sattar, S.A.** (Jan. 2006). Surface disinfection with liquid chemicals. Meeting of the Can. Standards Assoc., Toronto, ON.
 243. **Sattar, S.A.** (Mar. 2006). Activity of alcohol-based handrubs against caliciviruses. Meeting of the World Health Organization's test force on hand hygiene guidelines, Geneva, Switzerland.
 244. **Sattar, S.A.** (April 2006). Testing microbicides against human pathogenic viruses: the current status in North America. Meeting of the German Soc. for Hosp. Hygiene, Berlin, Germany.
 245. **Sattar*, S.A.** & Springthorpe, V.S. (May 2006). The hard surface disinfectant test methods for

- OECD: planning for collaborative testing. Meeting of the OECD committee to plan for an international collaborative study for a harmonized hard surface disinfectant test method. Berlin, Germany.
246. **Sattar, S.A.** (May 2006). Recent trends in high-level disinfection: Are oxidizers the way of the future? Annu. Meeting of the Community & Hosp. Infect. Control Assoc. of Canada, London, ON.
 247. **Sattar, S.A.** (June 2006). Noroviruses as enigmatic foodborne pathogens: studies on environmental survival & control. Seminar at the Bureau of Microbial Hazards, Health Canada, Ottawa, ON.
 248. **Sattar, S.A.** (June 2006). 'Infectious agents: A new beginning?' Acceptance speech for the Martin S. Favero Lectureship Award. Assoc. Professionals in Infection Control & Epidemiology (APIC) pre-conf. symp. on "*Disinfection, Sterilization & Antisepsis: Principles, Practices, Current Issues & New Research*" held in Tampa, FL.
 249. **Sattar*, S.A.** & Springthorpe, V.S. (June 2006). Spread of nosocomial pathogens by environmental surfaces & its interruption with microbicides: A critical look. Assoc. Professionals in Infection Control & Epidemiology (APIC) pre-conf. symp. on "*Disinfection, Sterilization & Antisepsis: Principles, Practices, Current Issues & New Research*" held in Tampa, FL.
 250. **Sattar, S.A.** (June 2006). Environmental survival & microbicide inactivation of some currently significant nosocomial pathogens. Assoc. Professionals in Infection Control & Epidemiology (APIC) pre-conf. symp. on "*Disinfection, Sterilization & Antisepsis: Principles, Practices, Current Issues & New Research*" held in Tampa, FL.
 251. **Sattar, S.A.** (Sept. 2006). Microbicidal chemicals used in domestic settings: How necessary, safe & effective are they? Meeting of the Alliance on the Prudent Use of Anti-Microbials (APUA), School of Medicine, Tufts Univ., Boston, MA.
 252. **Sattar, S.A.** (Sept. 2006). Disinfection field guide for environmental health officers: basic considerations in selecting & using microbicidal chemicals. Course for Environ. Hlth. Officers, Pub. Hlth. Bureau, Hlth. Can., Ottawa, ON.
 253. **Sattar*, S.A.** & Springthorpe, V.S. (Oct. 2006). The combined effects of environmental chemicals & infectious agents on human hosts: sounding an alarm. STERIS Infection Control Forum, Cleveland, OH.
 254. **Sattar, S.A.** (Oct. 2006). The emerging promise of oxidizers as high-level disinfectants. Lecture for the Webber Training Course, Ottawa, ON.
 255. **Sattar, S.A.** (Nov. 2006). Microbicidal chemicals in interrupting the spread of pathogens: Emerging concerns on their human & environmental safety & claims of activity. Brock University, St. Catharines, ON.
 256. **Sattar, S.A.** (Dec. 2007). Selection & use of microbicidal chemicals in preventing the environmental spread of human pathogens. Health Canada's National Quarantine Officers Conference, Vancouver, BC, Canada.
 257. **Sattar, S.A.** (Dec. 2006). Current issues in testing the microbicidal activities of hygienic handwash & handrub agents. Sixth International Conf. on Infect. Control, Pakistan Infect. Control Soc. & International Fed. of Infect. Control, Karachi, Pakistan.
 258. **Sattar, S.A.** (Dec. 2006). Microbicidal chemicals in infection control: factors to consider in their selection & use. Post-conf. workshop at the Tabba Heart Institute, Karachi, Pakistan.
 259. **Sattar, S.A.** (Dec. 2006). Infectious agents & chronic diseases in humans: A new golden age in microbiology. Dept. of Microbiol., Univ. of Karachi, Karachi, Pakistan.
 260. **Sattar, S.A.** (Feb. 2007). Basic considerations in selecting & using microbicidal chemicals: a field guide for environmental health officers. Health Canada-Industry Annual Meeting on Conveyance & Ancillary Services, Halifax, NS.
 261. **Sattar, S.A.** (April 2007). The changing influence of the environment on the fate & transmission of infectious agents. Keynote address at the 1st international symp. on *The Role of the Environment in the Interface between Microorganisms & Humans: Environmental Organisms Pathogenic for Humans*. Université Jean Monnet, Saint Etienne, France.
 262. **Sattar, S.A.** (May 2007). Disinfection products & procedures in infection control: are we achieving the desired results? National Conf. of the Can. Sanitation Supply Assoc., Toronto. ON.
 263. **Sattar, S.A.** (May 2007). The Microbial World from the perspective of infection prevention & control. Symp. on *Perspectives of the Microbial World*. Ann. Gen. Meeting of Am. Soc. of Microbiol., Toronto, ON, Canada.
 264. **Sattar, S.A.** (June 2007). Chemical & physical means to inactivate bacterial spores: relevance to *Bacillus anthracis*. CRTI workshop on "Detection & Decontamination of Anthrax Spores", Medicine

- Hat, AB, Canada.
265. **Sattar, S.A.** & Springthorpe, S. (Aug. 2007). Biologics in the swimming pool environment: respiratory microbial pathogens & endotoxins. Workshop on *Advancing the Sci.: Childhood Asthma & Environmental Exposures at Swimming Pools*, Leuven, Belgium.
 266. **Sattar, S.A.** (Sept. 2007). Disinfectants in infection control: Unravelling the mysteries of testing, use & label claims. Ann. Infect. Control Conf. Windsor-Essex County, ON, Canada.
 267. **Sattar,* S.A.** & Springthorpe, S. (Oct. 2007). Prevalidation of microbicidal activities of selected chemicals using proposed OECD test guidelines. Meeting of the Task Force for Test Protocol Harmonization, Org. for Economic Co-op. & Develop. (OECD), Washington, D.C.
 268. Springthorpe*, S. & **Sattar, S.A.** (Oct. 2007). The second tier of the quantitative carrier test (QCT-2): Procedure updates & dealing with inconsistencies. Meeting of the Task Force for Test Protocol Harmonization, Org. for Economic Co-op. & Develop. (OECD), Washington, D.C.
 269. **Sattar, S.A.** (Oct. 2007). Virucidal activity of hand antiseptics: relevance & current issues in testing & regulation. Ann. Meeting of the International Fed. Infect. Control, Budapest, Hungary.
 270. **Sattar, S.A.** (Nov. 2007). Environmental fate, transmission & control of human pathogens indoors; relevance to biosafety & biosecurity. First Canadian Biosafety Symp., Montreal, QC.
 271. **Sattar, S.A.** (Dec. 2007). Report on first meeting of international aircraft disinfection working group. Environ. Hlth. Officers' Workshop, Public Hlth. Bureau, Hlth. Canada, Ottawa, ON, Canada.
 272. **Sattar, S.A.** (Feb. 2008). Basic considerations in the selection & use of microbicidal chemicals in Containment Level 3 (CL-3) laboratories. Course on Biosafety in CL-3 Labs, organized by Pub. Hlth. Agency of Can. & Can. Food Inspection Agency, Ottawa, ON, Canada.
 273. **Sattar, S.A.** (Feb. 2008). CREM & its activities with relevance to infection control. 1st Meeting of the Provincial Reference Centre on Sterilization, Hôpital du Sacré Coeur de Montreal, QC, Canada.
 274. **Sattar, S.A.** (Feb. 2008). Report on first meeting of international aircraft disinfection working group. Health Canada-Transport Industry Meeting, Calgary, AL, Canada.
 275. **Sattar, S.A.**, Sabbah, S. & Springthorpe, S. (April 2008). Chemical disinfection of infectious bioagents: experiments with microbial mixtures. CRTI Technical Workshop on Decontamination after Chemical, Biological & Radiological Terrorist Attacks; Ottawa, ON, Canada.
 276. **Sattar, S.A.** (April 2008). Microbicidal activities of environmental surface disinfectants: how relevant are test methods & label claims? Can. Sanitation Supply Assoc., Toronto, ON, Canada.
 277. **Sattar, S.A.** (April 2008). Selection & use of disinfectants in healthcare settings: changing profile of nosocomial pathogens & search for 'green' alternatives to decontaminate environmental surfaces. Ontario Healthcare Housekeepers Assoc., Toronto, ON, Canada.
 278. **Sattar, S.A.** (May 2008). Selecting microbicidal chemicals for infection control: buyer beware! Teleclass for WebberTraining/CREM Series.
 279. **Sattar, S.A.** (May 2008). Selecting microbicidal chemicals for infection control: buyer beware! Teleclass for WebberTraining/CREM Series.
 280. **Sattar, S.A.** (June 2008). Microbicidal chemicals in infection control: emerging concerns with claims of activity, usage & safety. Dept. of Medical Microbiology, Univ. of Manitoba, Winnipeg, MB, Canada.
 281. **Sattar, S.A.** (Aug-Sept. 2008). Is the use & abuse of microbicides linked to increasing antibiotic resistance? International conf. of Infect. Control Nurses Assoc., Hong Kong.
 282. **Sattar, S.A.** (Aug-Sept. 2008). Environment: its role in the transmission of infections. International conf. of Infect. Control Nurses Assoc., Hong Kong.
 283. **Sattar, S.A.** (Aug-Sept. 2008). Microbicides for inactivation of nosocomial pathogens: are safer & better alternatives available? International conf. of Infect. Control Nurses Assoc., Hong Kong.
 284. **Sattar, S.A.** (Aug-Sept. 2008). Disinfection of environmental surfaces: what you need to know. International conf. of Infect. Control Nurses Assoc, Hong Kong.
 285. **Sattar, S.A.** (Aug-Sept. 2008). Use of microbicidal chemicals in infection control: an overview of safety, testing & applications. International conf. of Infect. Control Nurses Assoc. Hong Kong.
 286. **Sattar, S.A.** (Oct. 2008). Selection & use of disinfectants in healthcare: Emerging concerns with claims of activity, usage & safety. Ann. Conf. International Fed. Infect. Control, Santiago, Chile.
 287. **Sattar, S.A.** (Oct. 2008). The continuing emergence of human pathogens: Implications for public health & environmental control. Symp. 'New Horizons' of the Consumer Specialty Products Assoc., Denver, CO.
 288. **Sattar, S.A.** (Nov. 2008). What's the deal with microfibre-based fabrics in surface decontamination? Conf. Univ. Hosp. Networks. Toronto, ON.

289. Sabbah, S., **Sattar, S.A.** & Springthorpe, V.S. (April 2009). Assessing disinfection of environmental surfaces using a standard carrier test: Wiping vs direct kill. CRTI Technical Workshop on Decontamination after Chemical, Biological & Radiological Terrorist Attacks; Ottawa, ON, Canada.
290. **Sattar, S.A.** (April 2009). Dealing with threats from superbugs & other harmful microbes: Green & sustainable approaches to hygiene & environmental control. Can. Sanitation Supply Assoc., Toronto, ON, Canada.
291. **Sattar, S.A.** (April 2009). Preventing the environmental spread of infections: A critical look at current practices & future directions. Can. Sanitation Supply Assoc., Toronto, ON, Canada.
292. **Sattar, S.A.** (June 2009). Assessing the microbicidal activities of disinfectants & antiseptics: Making label claims more relevant & reliable. APIC International symposium on "On Disinfection, Sterilization, & Antisepsis", Fort Lauderdale, FL.
293. **Sattar, S.A.** (June 2009). Current issues in disinfection of environmental surfaces in healthcare settings. CHICA-Canada (Eastern Ontario) meeting, Kingston, ON.
294. **Sattar, S.A.** (July 2009). Assessing alcohol-based handrubs as hand hygiene agents. APSIC 09, Macau.
295. **Sattar, S.A.** (July 2009). Cross-resistance between microbicides & antibiotics: Is it real? APSIC 09, Macau.
296. **Sattar, S.A.** (July 2009). Microbicides in preventing the spread of nosocomial pathogens: Effectiveness vs. safety. APSIC 09, Macau.
297. **Sattar*, S.A.**, Sabbah, S., Springthorpe, V.S. (Aug. 2009). Infectious bioagents on environmental surfaces: standardized testing of liquid chemicals & wiping for decontamination. Biodefense Session at the ann. Conf. of Soc. for Indust. Microbiol., Toronto, ON.
298. **Sattar, S.A.** (Nov. 2009). Impact of changing societal trends on the spread of infections in American & Canadian homes. Keynote address at the Rudolf Schülke Foundation's symp. *The Need of Hygiene in Everyday life – Challenges & Perspectives*, Hamburg, Germany.
299. **Sattar, S.A.** (Mar. 2010). Assessing chemicals as disinfectants: from Koch to Kelsey & beyond, keynote address at 50th anniversary meeting of Central Sterilisation Club (CSC) – Univ. of Cambridge, England.
300. **Sattar, S.A.** (April 2010). Hand hygiene & pathogens of current significance; what works & what doesn't. Bi-annual conf. of the Can. Sanitation Supply Assoc., Laval, QC.
301. **Sattar, S.A.** (April 2010). On-going societal changes & the enhanced spread of infections: Are we prepared for the microbial onslaught? Bi-annual conf. of the Can. Sanitation Supply Assoc., Laval, QC.
302. **Sattar, S.A.** (May 2010). Disinfection of environmental surfaces: Can it be made better & safer? Preconference symp. at the Ann. Conf. of Community & Hosp. Infect. Control Assoc. of Canada, Vancouver, BC.

PRESENTATIONS AT SCIENTIFIC MEETINGS (* = presenter)

1. **Sattar*, S.A.** & Westwood, J.C.N. (Dec. 1966). The development of a fluorescent focus assay for herpes simplex virus & its application in the early detection of the virus. The 34th Annual meeting of the Lab. Section of the Can. Public Health Assoc., Toronto, ON.
2. **Sattar*, S.A.** & Westwood, J.C.N. (Nov.-Dec. 1967). Development of an immunofluorescent cell assay for influenza (A/PR8) virus in African green monkey kidney cells. The 35th Meeting of the Lab. Section of the Can. Public Health Assoc., Toronto, ON.
3. **Sattar*, S.A.**, Synek, E.J. & Westwood, J.C.N. (Dec. 1971). *Bacillus stearothermophilus* as a safe tracer in experimental aerobiology. 39th Meeting, Lab. Section, Can. Public Hlth. Assoc., Toronto, ON.
4. Westwood, J.C.N. & **Sattar*, S.A.** (Nov. 1973). Environmental transmission of viral infections. Symposium on "Viruses in the environment & their potential hazards", Canada Centre for Inland Waters, Burlington, ON.
5. Westwood*, J.C.N. & **Sattar, S.A.** (June 1974). The minimal infective dose: Can it establish infection? International Conference on "Viruses in Water", Mexico City, Mexico.
6. **Sattar*, S.A.** & Westwood, J.C.N. (June 1974). Talc-Celite layers & their application in the examination of field samples of surface & wastewater. At a meeting of Canadian Environmental Virologists, Can. Centre for Inland Waters, Burlington, ON.
7. **Sattar*, S.A.**, Ramia, S. & Westwood, J.C.N. (Dec. 1974). Lime (calcium hydroxide) treatment of

- sewage & its effect on viruses. The 42nd Annual meeting of the Lab. Section of the Can. Public Health Assoc., Ottawa, ON.
8. **Sattar*, S.A.** (Nov. 1975). Isolation & identification of viruses from surface waters & liquid & solid wastes in the Ottawa area. At a meeting of Can. Environmental Virologists, Canada Centre for Inland Waters, Burlington, ON.
 9. **Sattar, S.A.** (Jan. 1976). Viruses in the Ottawa environment. Symp. on "Health Hazards of Viruses in the Environment", Univ. of Ottawa, Ottawa, ON.
 10. **Sattar, S.A.**, Rossier, E. & Westwood*, J.C.N. (Dec. 1976). Health implications of viruses in the environment. Symp. on "Recent Advances in Virology", Vancouver, BC.
 11. **Sattar*, S.A.** & Westwood, J.C.N. (Dec. 1976). Viruses in raw, digested & lagoon- dried sludge: recovery & significance. The 44th Annual meeting of the Lab Section of the Can. Public Health Assoc., Montreal, QC.
 12. **Sattar*, S.A.** & Ramia, S. (Sept. 1978). Use of Talc-Celite layers in the recovery of viruses from drinking waters. 4th International Congress of Virol., The Hague, Netherlands.
 13. Ramia, S. & **Sattar*, S.A.** (Nov. 1978). Polyethylene glycol hydroextraction as second-step concentration of viruses from drinking & surface waters. The 46th Annual meeting of the Lab. Section of the Can. Public Health Assoc., Toronto, ON.
 14. **Sattar, S.A.** (Sept. 1980). Sources & significance of viral pollution of the Ottawa River. Second International Symp. on Microbial Ecology; Sept. 7-12, 1980, Univ. of Warwick, Coventry, England.
 15. **Sattar, S.A.** (Dec. 1980). Viral pollution of water & its impact on human health. Second International Conference on the Impact of Viral Diseases on the Development of African & Middle East Countries, Nairobi, Kenya.
 16. **Sattar*, S.A.**, Raphael, R., Lochnan, H. & Springthorpe, V.S. (June 1982). Rotavirus inactivation by chem. disinfectants used in hospitals. Meeting of Can. Soc. Microbiol., Quebec City, QC.
 17. **Sattar*, S.A.**, & Springthorpe, V.S. (Nov. 1982). Virological exam. of raw & finished waters in Ottawa & the vicinity. 50th Conjoint Meeting on Infect. Dis., Toronto, ON.
 18. **Sattar*, S.A.**, Raphael, R.A. & Springthorpe, V.S. (Oct. 1983). Rotaviruses & chemical disinfectants. 4th International Symposium on Neonatal Diarrhea, Vet. Infect. Dis. Org., (VIDO) Saskatoon, SK.
 19. **Sattar*, S.A.**, Ijaz, M.K., Johnson-Lussenburg, C.M. & Springthorpe, V.S. (Oct. 1983). Rotavirus survival in air. 4th International Symposium on Neonatal Diarrhea, Vet. Infect. Dis. Org. (VIDO), Saskatoon, SK.
 20. Ijaz*, M.K., **Sattar, S.A.**, Johnson-Lussenburg, C.M. & Springthorpe, V.S. (Nov.-Dec. 1983). Effect of relative humidity on the survival of airborne rotavirus SA-II. Conjoint Meeting on Infect. Dis., Montreal, QC.
 21. **Sattar, S.A.**, Raphael*, R.A. & Springthorpe, V.S. (Nov.-Dec. 1983). Lack of rotavirus inactivation by chlorine in drinking water. Conjoint Meeting on Infect. Dis., Montreal, Que.
 22. **Sattar*, S.A.**, Raphael, R.A. & Springthorpe, V.S. (May-June 1983). Rotavirus inactivation by chemical disinfectants & antiseptics used in microbiology laboratories. 4th Ann. Can. Assoc. Biological Safety Conf., Ottawa, ON.
 23. Raphael*, R.A., **Sattar, S.A.** & Springthorpe, V.S. (June 1983). The effect of temperature & naturally-occurring particulate matter on rotavirus (SA-II) survival in raw & treated river water. Meeting of the Can. Soc. Microbiol., Winnipeg, MB.
 24. **Sattar*, S.A.**, Raphael, R.A. & Springthorpe, V.S. (Sept. 1984). Rotavirus survival in raw & treated waters & its health implications. Conf. International Assoc. Water Pollu. Res. & Contr., Amsterdam, Holland.
 25. Ijaz*, M.K., **Sattar, S.A.** & Johnson-Lussenburg, C.M. (Sept. 1984). Airborne survival of rotaviruses & coronaviruses: Implications for disease transmission. International Conf. Virus Dis. Veterinary Importance in Southeast Asia & the Western Pacific, held at Geelong, Victoria, Australia.
 26. Ijaz*, M.K., **Sattar, S.A.**, Johnson-Lussenburg, C.M. & Springthorpe, V.S. (June 1984). Relative humidity & survival of rotavirus & poliovirus in air. Can. Soc. Microbiol., Kingston, ON.
 27. Ijaz*, M.K., **Sattar, S.A.**, Johnson-Lussenburg, C.M. & Springthorpe, V.S. (July 1984). Survival of airborne rota- & coronaviruses. Am. Soc. Virol., Madison, Wisconsin.
 28. **Sattar, S.A.**, Ijaz, M.K., Johnson-Lussenburg, C.M. & Springthorpe, V.S. (Sept. 1984). Studies on the survival of airborne rota- & coronaviruses. 6th International Congr. Virol., Sendai, Japan.
 29. Raphael*, R.A., **Sattar, S.A.** & Springthorpe, V.S. (June 1984). Rotavirus concentration from raw

- water using positively-charged filters. Can. Soc. Microbiol., Kingston, ON.
30. Lloyd-Evans, N., **Sattar*, S.A.**, Grenier, J.L. & Springthorpe, V.S. (Nov. 1984). Chemical disinfection of human rotavirus-contaminated inanimate surfaces. Conjoint Meeting on Infect. Dis., Vancouver, BC.
 31. Karim*, Y.G., Johnson-Lussenburg, C.M., Ijaz, M.K. & **Sattar, S.A.** (June 1985). Effect of relative humidity on the airborne survival of rhinovirus-14. Ann. Meeting of Can. Soc. Microbiol., Halifax, NS.
 32. Ijaz*, J.K., Karim, Y.G., **Sattar, S.A.** & Johnson-Lussenburg, C.M. (June 1985). Role of temp. & relative humidity on the airborne survival of viruses associated with respiratory & gastrointestinal infections. Meeting of Can. Soc. Microbiol., Halifax, NS.
 33. **Sattar, S.A.** (June, 1985). Human pathogenic viruses in the environment. Biennial meeting of the International Joint Commission on the Great Lakes, Kingston, ON.
 34. **Sattar*, S.A.**, Karim, Y.G., Johnson-Lussenburg, C.M., Brunner, A. & Springthorpe, V.S. (June 1986). Effect of relative humidity on the survival of rhinovirus-14 & coronavirus 229E on non-porous surfaces. Meeting of Can. Soc. Microbiol., Toronto, ON.
 35. Anweiler*, L.L., **Sattar, S.A.**, Springthorpe, V.S. & Dimock, K. (June 1986). Polypeptide comparisons among 6 different isolates of enterovirus 70. Ann. Meeting of Am. Soc. Virol., Santa Barbara, CA.
 36. Chaudhuri, M. & **Sattar*, S.A.** (Aug. 1986). Enteric virus removal from water by coal-based sorbents: development of low-cost water filters. 13th Biennial Conf. International Assoc. Water Pollution Research & Control., Rio de Janeiro, Brazil.
 37. Wiley*, J., Brodeur, B., Dimock, K. & **Sattar, S.** (June 1987). Production d'anticorps monoclonaux dirigés contre les protéines virales de l'enterovirus-70. 55e Congrès l'ACFAS, Ottawa, ON.
 38. **Sattar*, S.A.**, Karim, Y., Johnson-Lussenburg, C.M. (Aug. 1987). Effect of relative humidity on human coronavirus 229E on non-porous inanimate surfaces. VII International Congress of Virology, Edmonton, AB.
 39. **Sattar*, S.A.**, Dimock, K., Ansari, S.A., Sheikh, A.S. & Springthorpe, V.S. (Aug. 1987). Survival of Enterovirus 70 on non-porous inanimate surfaces. VII International Congress of Virology, Edmonton, AB.
 40. **Sattar*, S.A.**, Ansari & S.A., Springthorpe, V.S. (Nov. 1987). Rotavirus survival on human hands. 55th Conjoint Meeting on Infect. Dis., Ottawa, ON.
 41. Wiley*, J., Brodeur, B.R., Dimock, K. & **Sattar, S.** (Nov. 1987). Analysis of Enterovirus 70 epitopes using monoclonal antibodies. 55th Conjoint Meeting on Infect. Dis., Ottawa, ON.
 42. Sankar-Mistry*, P., Lambert, M., Patton, T., Douma, R., Larose, Y., Brodeur, B., Springthorpe, S., Karim, Y., **Sattar, S.** & Kasatiya, S. (Nov. 1987). *In vitro* detection of rotavirus in human fecal specimens using a mouse monoclonal antibody. 55th Conjoint meeting on Infect. Dis., Ottawa, ON.
 43. **Sattar*, S.A.** & Springthorpe, V.S. (April 1988). Test protocols for virucides: Need for improvements. 4th International Conf. on Progress in Chemical Disinfection, State Univ. of New York, Binghamton, NY.
 44. Chaudhuri, M. & **Sattar*, S.A.** (Aug. 1988). Removal of human pathogenic viruses from water by coal-based sorbents. 1st International Biennial Water Qual. Symp., Banff, Alberta.
 45. Ansari*, S.A., **Sattar, S.A.** & Springthorpe, V.S. (Nov. 1988). Antisepsis of rotavirus-contaminated hands. 56th Conjoint Meeting on Infect. Dis., Calgary, AB.
 46. Best*, M., **Sattar, S.A.**, Springthorpe, V.S. & Kennedy, M.E. (Nov. 1988). Chemical disinfection of bacterially-contaminated inanimate surfaces. 56th Conjoint Meeting on Infect. Dis., Calgary, AB.
 47. **Sattar*, S.A.**, Ansari, S.A. & Springthorpe, V.S. (April 1989). In vivo evaluation of commonly used handwashing agents against viruses & bacteria. 7th National Conf. of Community & Hosp. Infection Control Assoc. (CHICA) of Canada, Toronto, ON.
 48. Wiley*, J., Brodeur, B., Dimock, K. & **Sattar, S.A.** (July 1989). Characterization of an enterovirus-70 neutralizing epitope using murine monoclonal antibodies. 8th Ann. Meeting of Am. Soc. Virol., London, ON.
 49. Wiley*, J., Brodeur, B., Dimock, K. & **Sattar, S.A.** (Nov. 1989). Analysis of enterovirus-70 epitopes using monoclonal antibodies. 57th Conjoint Meeting on Infect. Dis., Montreal, QC.
 50. Ansari*, S.A. & **Sattar, S.A.** (Nov. 1989). Survival of parainfluenza- & rhinoviruses on human hands: A comparative study. 57th Conjoint Meeting on Infect. Dis., Montreal, QC.
 51. Mbithi, J.N., Springthorpe, V.S. & **Sattar*, S.A.** (July 1990). Chemical disinfection of hepatitis A virus

- on environmental surfaces. Am. Soc. Microbiol. International Symp. on Chem. Germicides, Atlanta, GA.
52. Ansari*, S.A., **Sattar, S.A.** & Springthorpe, V.S. (July 1990). Comparison of cloth-, paper, & air-drying in eliminating viruses & bacteria from washed hands. Am. Soc. Microbiol. International Symp. on Chem. Germicides, Atlanta, GA.
 53. Springthorpe, V.S., Loh, C.L., Mbithi, J.N. & **Sattar*, S.A.** (April 1991). The ECODYNE system: A novel technique for the *in situ* study of the survival of microorganisms in the water environment. International Workshop on 'Virology for the Water Supply in the Nineties', organized jointly by The Netherlands Waterworks Testing & Research Institute (KIWA Ltd.), The Netherlands Nat. Institute of Public Health & Environ. Protection (RIVM) & the International Water Supply Assoc.
 54. Mbithi*, J.N., Springthorpe, V.S. & **Sattar, S.A.** (Dec. 1991). Survival of hepatitis A virus (HAV) on human hands & its transfer to & from other surfaces. 59th Conjoint Meeting on Infect. Dis., Quebec City, QC.
 55. Springthorpe*, V.S., Loh, C.-L. & **Sattar, S.A.** (May 1992). *In situ* survival of indicator bacteria, MS-2 phage & human pathogenic viruses in river water. International Symposium on 'Health-Related Water Microbiology', held in Washington, DC.
 56. Best*, M., Springthorpe, V.S. & **Sattar, S.A.** (Oct. 1992). Development of a combined efficacy test method for disinfectants. Ann. meeting of Am. Biological Safety Assoc., San Francisco, CA.
 57. Mbithi*, J.N., Springthorpe, V.S. & **Sattar, S.A.** (Nov. 1992). Endoscope disinfection: Glutaraldehyde concentration, protein accumulation & germicidal activity during 14-day reuse. 60th Conjoint Meeting on Infect. Dis., Toronto, ON.
 58. Springthorpe*, V.S. & **Sattar, S.A.** (Nov. 1992). The ECODYNE System: An environmental tool for aquatic systems. Technol. Transfer Conf., Ont. Min. of Environment, Toronto, ON.
 59. Springthorpe*, V. S., Loh, C. L., Robertson, W. & **Sattar, S. A.** (April 1993). A new tool for simulating natural water quality: Application in *in situ* microbiological studies. Am. Soc. Microbiol. Conf. on Water Quality in the Western Hemisphere, San Juan, Puerto Rico.
 60. Best, M., Springthorpe, V. S. & **Sattar*, S.A.** (May 1993). A new carrier method for assessing germicidal efficacy of disinfectants. 20th Ann. Meeting of the Assoc. for Practitioners in Infect. Contr., Orlando, FL.
 61. Ansari*, S. A., Springthorpe, V. S. & **Sattar, S.A.** (May 1993). Washing with plain soap spreads localized rotavirus contamination over a wider area of both hands. Poster at the meeting of Am. Soc. Microbiol., Atlanta, GA.
 62. Springthorpe*, V. S., Thuswaldner, L. L., Laframboise, D., M., Burke, T., J., & **Sattar, S.A.** (July 1993). Sporicide test development. Poster at the 107th Meeting of the Assoc. Off. Analyt. Chem. (AOAC International), Washington, DC.
 63. Lavalleyé*, D.J., Lapierre, N.M., Henwood, P.K., Pivik, J.R., Best, M., Springthorpe, V.S. & **Sattar, S.A.** (Sept. 1993). Catheter cleaning for re-use in intermittent catheterization. Paper at the 10th Ann. Meeting of Am. Assoc. Spinal Cord Injury Nurses. Las Vegas, NV.
 64. Springthorpe*, V.S., Loh, C.H. & **Sattar, S.A.** (Oct. 1993). Water disinfection *in situ*: A new experimental approach. International Symp. on Chemistry & Biology of Municipal Water Treatment: Current Status & Future Directions. Can. Centre for Inland Waters, Burlington, ON.
 65. **Sattar, S.A.**, Best*, M., Springthorpe, V. S. & Kennedy, M.E. (Nov. 1993). Simultaneous evaluation of bactericidal, mycobactericidal, virucidal, fungicidal & sporicidal activities of chemical disinfectants. Conjoint Meeting on Infect. Dis., Vancouver, BC.
 66. Loh*, C.L., Springthorpe, V.S. & **Sattar, S.A.** (Feb. 1994). Characterization of a hollow fibre system for studies of microbial fate in aquatic systems. 29th Central Can. Symp. on Water Pollu. Res., held at Can. Centre for Inland Waters, Burlington, ON.
 67. Chauret*, C., Springthorpe, V.S. & **Sattar, S.A.** (Sept. 1994). Detection & survival of protozoan parasites in water in the Ottawa (Canada) region. International Conf. on Protozoan Parasites in Water, Univ. of York, York, England.
 68. Springthorpe*, V.S., Laframboise, D., Thuswaldner, L. & **Sattar, S.A.** (Sept. 1994). Development of a new sporicide test. 3rd International Conf. Hosp. Infect. Soc., London, England.
 69. Springthorpe*, V.S. & **Sattar, S.A.** (Oct. 1994). A quantitative method to study the disinfection of biofilms *in situ*. 6th National Conf. on Drinking Water, Victoria, BC.

70. **Sattar***, S.A., Springthorpe, V.S., Taylor, Y., & Chauret, C. (Oct. 1994). Applied research in the control of microbial contamination. Ottawa Life Sciences Conference, Ottawa, ON.
71. Springthorpe, V.S., Heisz, M., & **Sattar, S.A.** (Nov., 1994). Autoclaves for the decontamination of biomedical waste. Conf. on the "New Economy": Green Needs & Opportunities. Ont. Min. Environ. & Energy, Toronto, ON.
72. Chauret*, C., V.S. Springthorpe, & **S.A. Sattar.** (May 1995). *Cryptosporidium* & *Giardia* in water in the Ottawa (Canada) region: correlation with microbial indicators of water quality. Ont. Water Works Assoc. Conference, Toronto, ON.
73. Chauret*, C., P. Chen. V.S. Springthorpe & **S.A. Sattar.** (Oct. 1995). *Cryptosporidium* survival in aquatic environments. Ottawa Life Sciences Conference, Ottawa, ON.
74. Heisz*, M., C. Chauret, V.S. Springthorpe & **S.A. Sattar.** (Oct. 1995). Rapid assessment of *Cryptosporidium* viability by flow cytometry. Ottawa Life Sciences Conference, Ottawa, ON.
75. Qureshi*, S.A., Graham, M.L., **Sattar, S.A** & McGilveray, I.J. (Oct. 1995). An *ex vivo* human skin model to evaluate absorptive, toxicological & germicidal activities of topicals. Ottawa Life Sciences Conference, Ottawa, ON.
76. Springthorpe, V.S. & **Sattar, S.A.** (Oct. 1995). Improved tests for disinfectants & antiseptics. Ottawa Life Sciences Conference, Ottawa, ON.
77. Chauret*, C., P. Chen, S. Springthorpe, & **S. A. Sattar.** (Nov. 1995). Effect of environmental stressors on the survival of *Cryptosporidium* oocysts. Water Quality Technology Conference (AWWA), New Orleans, LA.
78. Chauret*, C., P. Chen, V.S. Springthorpe, & **S.A. Sattar.** (Nov. 1995). *Giardia* cyst & *Cryptosporidium* oocyst survival in watersheds & factors affecting inactivation. Environment & Energy Conference of Ont., Toronto, ON.
79. Nolan*, K., Chauret, C., Springthorpe, V.S. & **Sattar, S.A.** (Feb. 1996). Survey of raw & treated water supplies in Eastern Ont. for the occurrence of *Cryptosporidium* & *Giardia*. 31st Central Can. Conf. on Water Pollu. Res., Burlington, ON.
80. Heisz*, M, Chauret, C., Springthorpe, V.S. & **Sattar, S.A.** (April 1996). *In vitro* survival of *Cryptosporidium* oocysts & its impact on watershed management. Ont. Water Works Assoc. Conf., London, ON.
81. Nolan*, K., Chauret, C., Springthorpe, V.S. & **Sattar, S.A.** (May 1996). Survey of raw & treated water supplies on the St. Lawrence for the occurrence of *Cryptosporidium* & *Giardia*. 3rd Annual Conf. on the St. Lawrence Ecosystem, Cornwall, ON.
82. Chauret*, C. Springthorpe, V.S. & **Sattar, S.A.** (Feb. 1996). Reduction in the levels of *Cryptosporidium* & other pathogenic microorganisms in a wastewater treatment plant. 31st Central Can. Conf. on Water Pollu. Res., Burlington, ON.
83. Taylor*, Y.E., Springthorpe, V.S. & **Sattar, S.A.** (Sept. 1996). *Mycobacterium terrae*: A candidate for the tuberculocidal test? Abstract #19-H-002, presented at the 110th AOAC International Meeting, Orlando, FL.
84. Graham*, M.L., Springthorpe, V.S. & **Sattar, S.A.** (Sept. 1996). *Ex vivo* protocol to test efficacy of topicals against Herpesvirus 2. 36th Interscience Conf. on Antimicrobial Agents & Chemotherapy. New Orleans, LA.
85. Qureshi*, S.A., Graham, M.L., **Sattar, S.A.**, Bujaki, S. & McGilveray, I.J. (Oct. 1996). An assessment of viability of human skin sections obtained from different anatomical sites using a flow-through diffusion system. Annual Meeting of the Am. Assoc. Pharmaceut. Sci., Seattle, WA.
86. Springthorpe*, V.S., Loh, C.L. & **Sattar, S.A.** (Oct. 1996). How good is modeling for microbial survival in fluvial systems. Biannual Meeting of International Assoc. Water Quality, Mallorca, Spain.
87. Chauret, C., Heisz, M., Chen, P., Springthorpe*, V.S. & **Sattar, S.A.** (Oct. 1996). Survival of *Cryptosporidium parvum* oocysts in surface waters. Poster at the International Assoc. on Water Quality, Mallorca, Spain.
88. Graham*, M.L., Springthorpe, V.S. & **Sattar, S.A.** (Oct. 1996). *Ex vivo* protocol to test efficacy of topicals against herpesvirus 2. The Ottawa Life Sciences Meeting, Ottawa, ON. **This poster was awarded a Silver Medal.**
89. Taylor*, Y.E., Mantha, S. & **Sattar, S.A.** (Oct. 1996). A molecular method for species identification of mycobacteria. The Ottawa Life Sciences Ann. Conf., Ottawa, ON.
90. Taylor*, Y.E., Springthorpe, V.S. & **Sattar, S.A.** (Oct. 1996). *Mycobacterium terrae*: A candidate for the tuberculocidal test? The Ottawa Life Sciences Ann. Conf., Ottawa, ON
91. Chauret*, C., Battigelli, D., Chen, P., Nolan, K., Abbaszadegan, M., Springthorpe, S. & **Sattar, S.A.**

- (Nov. 1996). Susceptibility of stressed *Cryptosporidium* oocysts to disinfection with chlorine & monochloramine. Water Quality Technology Conference, Boston, MA.
92. Battigelli*, D., Chauret, C., Nolan, K., **Sattar, S.A.**, LeChevallier, M. & Abbaszadegan, M. (Nov. 1996). Environmental survival of *Cryptosporidium parvum* & *Giardia muris* in Canada & the United States. Water Quality Technology Conference, Boston, MA.
 93. Nolan*, K., Chauret, C., Springthorpe, V.S. & **Sattar, S.A.** (Nov. 1996). Are microbial indicators reliable to monitor for *Cryptosporidium* & *Giardia*? Water Quality Technology Conference, Boston, MA.
 94. Nolan*, K., **Sattar, S.A.**, Chauret, C. & Springthorpe, V.S. (May 1997). *In situ* survival of *Cryptosporidium parvum* in treated drinking water. Annual Conf. of Ont. Water Works Assoc., Hamilton, ON.
 95. Graham*, M.L., Springthorpe, V.S. & **Sattar, S.A.** (Oct. 1997). *Ex vivo* protocol for testing the efficacy of topicals against human adenovirus 4. Paper #H-133, ICAAC, Toronto, ON.
 96. **Sattar, S.A.** (Oct. 1997). Effect of liquid chemical germicides on mycobacteria, including multi-drug resistant isolates of *Mycobacterium tuberculosis* (MDR-TB). Paper #E-166, ICAAC, Toronto, ON.
 97. Graham*, M.L., Springthorpe, V.S. & **Sattar, S.A.** (Oct. 1997). An *ex vivo* protocol for testing adenovirus 4 inactivation on human skin. Ann. Meeting of the Am. Biological Safety Assoc., San Diego, CA.
 98. Bidawid*, S., Farber, J. & **Sattar, S.A.** (Oct. 1997). Rapid detection of hepatitis A virus (HAV) in fruits & vegetables. Ann. Conjoint Meeting on Infect. Dis., St. John's, NF.
 99. Bidawid*, S., Farber, J. & **Sattar, S.A.** (Oct. 1997). Heat inactivation of hepatitis A virus (HAV) in dairy foods. Ann. Conjoint Meeting on Infect. Dis., St. John's, Newfoundland.
 100. Taylor*, Y., Mantha, S., Stubbert, L. & **Sattar, S.A.** (May, 1998). Mycobacteria in drinking water in Ont. Ann. meeting, Ont. Water Works Assoc., Niagara Fall, ON.
 101. Springthorpe, V.S. & **Sattar, S.A.** (May 1998). Public health-related water research at the Centre for Research on Environ. Microbiol.. Ann. meeting, Ont. Water Works Assoc., Niagara Fall, ON.
 102. Chauret, C., Bagwell, B., Meybodi, S., Nolan, K., Chen, P., Springthorpe, V.S. & **Sattar, S.A.** (June 1998). Effect of microbial antagonism on the survival of *Cryptosporidium parvum* in fresh natural waters. Presented at the Biennial Meeting of International Assoc. on Water Quality, Vancouver, BC.
 103. Springthorpe*, V.S., Nolan, K., Chen, P., Chauret, C., Bagwell, B. & **Sattar, S.A.** (June 1998). Decay of *Cryptosporidium* oocysts in microbially-amended natural waters. Given at the Biennial Meeting of International Assoc. on Water Quality, Vancouver, BC.
 104. Springthorpe*, V.S. & **Sattar, S.A.** (Aug. 1998). A new tool for microbial fate, interaction & toxicity studies *in situ*. Eighth Intern. Symp. Microbial. Ecology, Halifax, NS.
 105. **Sattar*, S.A.** Springthorpe, V.S., Nolan, K., Chen, P., Chauret, C. (Sept. 1998). *Cryptosporidium* & biological antagonism in the water environment. Ann. Conf. of AOAC International, Montreal, QC.
 106. Stubbert, L.J., Taylor, Y.E. & **Sattar, S.A.** (Nov. 1998). The occurrence of non-tuberculous mycobacteria in dental unit water. Ottawa Life Sciences National Conference, Ottawa, ON.
 107. Zafer, A.A., Taylor, Y.E. & **Sattar, S.A.** (Nov. 1998). Mycobactericidal testing of chemical germicides: Comparison of conventional culture with reported gene assay. Ottawa Life Sciences National Conference, Ottawa, ON.
 108. Bidawid*, S., Farber, J. & **Sattar, S.A.** (Nov. 1998). Inactivation of hepatitis A virus in fruits & vegetables by gamma irradiation. Ann. Conjoint Meeting on Infect. Dis., Toronto, ON.
 109. Bidawid*, S., Farber, J. & **Sattar, S.A.** (Nov., 1998). Survival of hepatitis A virus in food stored at modified atmosphere packaging environment. Ann. Conjoint Meeting on Infect. Dis., Toronto, ON.
 110. Zafer*, A.A., Taylor, Y.E. & **Sattar, S.A.** (June 1999). Mycobactericidal testing of germicides: Comparison of culture method with reporter gene assay. Ann. Meeting of Can. Soc. Microbiol., Montreal, QC.
 111. Taylor*, Y.E. Stubbert, L.J. & **Sattar, S.A.** (June 1999). Occurrence of mycobacteria in dental water. Ann. Meeting of Can. Soc. Microbiol., Montreal, QC.
 112. **Sattar, S.A.**, Abebe, M., Jampani, H., Newman, J. & Jones, R. (June 1999). Assessment of the activity of an alcohol-containing hand gel against non-enveloped viruses using the fingerpad method. Ann. Meeting of Assoc. Professionals in Infect. Control & Epidemiol., Baltimore, MD.
 113. Springthorpe*, V.S. & **Sattar, S.A.** (July 1999). Centre for Research on Environ. Microbiol. (CREM): An introduction. First Antimicrobial Res. Conf., Univ. of Cardiff, Wales.
 114. Zafer, A.A., Taylor, Y.E. & **Sattar*, S.A.** (July 1999). Mycobactericidal testing of chemical germicides: Comparison of conventional culture & reporter gene assay. First Antimicrobial Res. Conf., Univ. of Cardiff, Wales.

115. Springthorpe, V.S., Nolan, K., Sander*, M. & **Sattar, S.A.** (Nov. 1999). A dynamic model for drinking water disinfection: What are the differences from jar tests? Proc. 2nd Intern. Conf. on "The Safety of Water Disinfection: Balancing Chemical & Microbial Risks". Miami Beach, FL.
116. Ijaz*, M.K., Suchmann, D. **Sattar, S.A.** (Nov. 1999). Bactericidal, virucidal, cysticidal & oocysticidal potential of a point-of-use device based on chlorine dioxide. Proc. 2nd Intern. Conf. on "The Safety of Water Disinfection: Balancing Chemical & Microbial Risks". Miami Beach, FL.
117. Bidawid*, S., Farber, J.M. & **Sattar, S.A.** (Nov. 1999). Studies on hepatitis A virus transfer from contaminated fingerpads of volunteers to food & its interruption. Ann. Conjoint Meeting on Infect. Dis., Edmonton, AB.
118. Springthorpe, V.S., **Sattar*, S.A.**, Busa, M. & Zafer, A.A. (May 2000). Mycobactericidal activity of a phenolic disinfectant under varying test conditions. Ann. Meeting of the Community & Hosp. Infect. Control Assoc. (CHICA) of Canada, Toronto, ON.
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