

I. GENERAL BIOGRAPHICAL INFORMATION

A. Personal

Cynthia Lou Chappell

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B. Present Position(s)

Associate Dean for Academic Affairs, The University of Texas, School of Public Health at Houston, 2001-present

Professor (tenured, 2000), Division of Environmental and Occupational Health, The University of Texas, School of Public Health at Houston, 2003 - present

Professor (cross-appointment), Division of Infectious Diseases, Department of Medicine, The University of Texas, Medical School at Houston, 2003-present

Adjunct Associate Professor of Microbiology and Immunology, Baylor College of Medicine, 1993-present

C. Education

1. Undergraduate Education

Middle Tennessee State University, B.S., English, 1965-1971

2. Graduate Education

Middle Tennessee State University, M.S., Biology, 1973-1976

Baylor College of Medicine Ph.D., Microbiology and Immunology 1981-1985

3. Postgraduate Training

World Health Organization Fellowship Grant, Universitat Leiden, The Netherlands, September 1 - October 12, 1986

4. Postdoctoral Training

Research Associate, Department of Biochemistry, Baylor College of Medicine, 1986-1989.

D. Academic Appointments

1. Previous Faculty Position(s)

Professor (tenured), Biological Sciences Discipline, The University of Texas School of Public Health at Houston, 2003-2004

Associate Professor (tenured), Biological Sciences Discipline, The University of Texas School of Public Health at Houston, 1993 - 2003

Professor, (cross appointment) Department of Medicine - Division of Infectious Diseases, The University of Texas Medical School, 1998 - Present

Adjunct Associate Professor, Department of Microbiology and Immunology, Baylor College of Medicine, 1993 - Present

Guest Faculty, Department of Veterinary Microbiology, Texas A&M University School of Veterinary Medicine, 1999-present

Assistant Professor, Department of Family Medicine, Baylor College of Medicine, 1989-93

Assistant Professor, Department of Microbiology and Immunology, Baylor College of Medicine, 1989

Research Assistant Professor, Department of Microbiology and Immunology, Baylor College of Medicine, 1988-1989

E. Other Advanced Training/Experience

Academic Leadership Development Program, The University of Texas Health Science Center at Houston, 1998-9

Teaching Effectiveness Workshop, June 12, 20, 27, 1995
The University of Texas Health Science Center at Houston

AAMC/NIH Workshop, "The Promotion of Integrity and Responsible Practice in Biomedical Research," Washington, D.C., April 20-22, 1990

F. Honors and Awards

Excellence in Scholarship Award, 2004
University of Texas School of Public Health

Excellence in Research Incentive Award, 2004
University of Texas School of Public Health at Houston

Excellence in Research Incentive Award, 2003
University of Texas School of Public Health

Excellence in Scholarship Award, 2003
University of Texas School of Public Health

Excellence in Scholarship Award, 2002
University of Texas School of Public Health

Excellence in Scholarship Incentive Award, 2001
University of Texas School of Public Health

Excellence in Research Incentive Award, 2001
University of Texas School of Public Health

Excellence in Scholarship Incentive Award, 2000
University of Texas School of Public Health

Excellence in Research Incentive Award, 2000
University of Texas School of Public Health

Excellence in Research Incentive Award, 1999
University of Texas School of Public Health

Excellence in Research Incentive Award, 1998
University of Texas School of Public Health

Excellence in Scholarship Incentive Award, 1997,
University of Texas School of Public Health

Excellence in Research Award, 1995,
University of Texas School of Public Health

Oration Award, Indian Association of Medical Microbiologists , 1995

Excellence in Research Award, 1994,
University of Texas School of Public Health

II. RESEARCH INFORMATION

A. **Current and Past Research Support**

1. Principal Investigator, *Infectivity and Virulence of Cryptosporidium Non-parvum Species in Healthy Adult Volunteers*, Environmental Protection Agency STAR Grant, (Total cost: \$524,540), Project period: 09/01/01-08/31/05
2. Co-principal Investigator (UT subcontract renewal), *Intestinal Cytokines in Human Cryptosporidiosis*, National Institutes of Allergy and Infectious Disease, (UT subcontract Total Cost: \$377,488), Project period: 07/01/00-06/30/05
3. Principal Investigator, *Infectivity and Virulence of Cryptosporidium Genotype 1/H Oocysts in Healthy Adult Volunteers*. Environmental Protection Agency STAR Grant, (Total cost: \$546,429), Project period: 03/01/00-02/28/05.
4. Co-principal investigator (UT Subcontract), *Establish a Correlative Dose Response Model for Human Cryptosporidiosis*, Food and Drug Administration, Saul Tzipori, DVM, Ph.D. (Tufts University), Principal investigator, (Subcontract total cost: \$210,474), Project Period: 01/01/99-12/31/02.
5. Co-Investigator (UT Subcontract), *Intestinal Cytokines in Cryptosporidiosis*, National Institutes of Allergy and Infectious Diseases, (Subcontract total cost: \$737,409), Project Period: 09/01/97-08/31/00.
6. Principal Investigator, *C. parvum: Mucosal Response in Healthy Hosts & HIV/AIDS*. National Institutes of Allergy and Infectious Diseases, (Total cost: \$143,240), Project Period: 10/01/97 - 09/30/98.
7. Principal Investigator, *In Vitro and In Vivo Effects of BMS 193033 on Cryptosporidium parvum Infection*. Bristol Myers Squibb, (Total Cost: \$50,015), Project Period: 10/01/97-4/30/98.
8. Principal Investigator, *Virulence Factors in Cryptosporidium and Infective Dose in Humans*, Environmental Protection Agency, (Total cost: \$550,323), Project period: 10/1/95-9/30/98.
9. Principal Investigator, *Cryptosporidium parvum Infection in Healthy Adult Volunteers*, Office of Research and Academic Affairs, The University of Texas Health Science Center, (Total direct cost: \$13,550), Project period: 10/01/95-8/31/96.
10. Co-Investigator, *A Single Center, Phase I/II Clinical Trial to Assess the Safety of Oral Bovine Anti-Cryptosporidium Immunoglobulin (BACI) in Normal Volunteers and Its Efficacy in Preventing and Treating Cryptosporidium parvum Infection Following Oral Challenge*, Immuncell, Inc., (Total cost: \$103,680), Project period: 04/01/95-03/31/97.
11. Co-Investigator, *Infectivity of Cryptosporidium for Adult Humans*. Environmental Protection Agency, (Total cost: \$656,440), Project period: 10/01/93-9/30/95.
12. Principal Investigator, *Evaluation of an Antigen Detection Immunoassay for Cryptosporidium in HIV-Infected Patients*, Seradyn, Inc., (Total cost: \$5,500), Project period: 07/01/92 - 12/31/92.
13. Principal Investigator, *Diagnosis of Schistosomiasis with a Parasite Proteinase*, National Institute

of Allergy and Infectious Diseases FIRST Award, (Total direct cost: \$344,192), Project period: 12/1/88-11/30/92.

14. Co-Investigator, *Proteolytic Enzymes of Schistosoma mansoni*, North American Treaty Organization, (Total direct cost: \$5,165), Project period: 3/1/87-2/28/91. (Appointed January, 1990 by Dr. Marc H. Dresden (PI), prior to his death)

B. Pending Research Support

None

C. Approved, But Not Funded

1. Principal Investigator, Chagas Disease in the Texas/Mexico Border Region. Advanced Research Program, Texas Higher Education Coordinating Board, (Total costs: \$150,000), Project period: 01/01/02-12/31/03.
2. Co-investigator (UT-H component of UTMB collaborative grant), *T-cell Epitope-Derived Vaccine Against Cryptosporidium parvum*. State of Texas ATP Grants Program, (Total cost: \$314,480), Project period: 01/01/00-12/31/02.
3. Principal Investigator: (UT subcontract), *Comparison of cell culture and animal infectivity for detection of Cryptosporidium*, American Water Works Association Research Foundation, (Subcontract Total costs: \$271,515), Project period: 1/1/00-12/31/02.
4. Principal Investigator, *Training in Public Health and Emerging Diseases*, National Institutes of Allergy and Infectious Diseases/Fogarty International, (Total Costs: \$530,809), Project period: 5/1/99-4/30/04.
5. Principal Investigator, *Training in Public Health and Emerging Diseases*, National Institutes of Allergy and Infectious Diseases/Fogarty International, (Total Costs: \$530,809), Project period: 5/1/99-4/30/04.

D. National Scientific Participation

1. Section Editor, American Journal of Tropical Medicine and Hygiene, 1998 – 2005
2. Ad hoc Reviewer:
 - Comparative Parasitology
 - Journal of Travel Medicine
 - International Journal of Parasitology
 - International Journal of Experimental and Clinical Chemistry
 - Experimental Parasitology
 - Journal of Parasitology
 - The National Medical Journal of India
 - Journal of Acquired Immune Deficiency Syndromes and Human Retrovirology
 - American Public Health Association
 - Comparative Biochemistry and Physiology
 - Acta Protozoologica (Polish Academy of Sciences)
3. Advisory Committees
 - Reviewer, NIOSH Pilot Project Research Training Program, 2006
 - Grants reviewer, U.S. Civilian Research and Development Foundation, Science Centers Program, 2005
 - Reviewer, NIOSH Pilot Project Research Training Program, 2003.
 - Grants reviewer, U.S. Civilian Research and Development Foundation, Science Centers Program, 2003

American Water Works Association Research Foundation, Project Advisory Committee, 1996 – 2001

Past service:

Ad hoc Reviewer, Natural Sciences and Engineering Research Council of Canada

Member, NIAID Microbiology and Infectious Diseases Research Committee, Review of "Basic and Applied Research Into Tropical Diseases"

AdHoc Review Panel, Thrasher Research Fund

Member, Special Review Committee, NIAID, "International Collaborations in Infectious Disease Research"

4. Consulting Activities

Environmental Protection Agency: *Defining Susceptibility in Microbial Risk Assessment: A Dialogue*, GWU Center for Risk Science and Public Health, Washington, DC, June 26-27, 2001.

Environmental Protection Agency: *Peer-Involvement Workshop. Translating the Results of Human Health Risk Assessments into Health Conditions and Quality of Life Years*, April 29-30, 1999, Cincinnati, OH.

Environmental Protection Agency, Peer Review of Work Plan (03/10/98), *Source Water Protection (Clean Water Act): Investigation of Gene Sequencing Techniques to Identify Sources of Cryptosporidium parvum Oocysts in Polluted Water*, April 7, 1998.

Consultant to Mr. Peter McClellan, Queen's Councilor, Chairman of the Inquiry into the Sydney Water Supply Contamination, August, 1998.

Member, CDC Working Group on Waterborne Cryptosporidiosis, 1995-1997

5. Professional Societies

American Society of Parasitologists

National Review Committee member, Boris I. Kuperman Grant Award Committee, 2003-present.

Elected to National Council, 2003-2006

Chair, National Committee for Distinguished Service and Extramural Awards, 1996-1998

Member, Bueding and von Brand Lectureship Committee, 2000-2004

American Society of Tropical Medicine and Hygiene,

Section Editor, *American Journal of Tropical Medicine and Hygiene*, 2001-2005

Chair, National Membership Committee, 1993-1995

State Coordinator, Legislative Task Force Network, 1992

Committee for Public Affairs (National), 1990-1992

American Public Health Association

Southwestern Association of Parasitologists

President, 1992-1993

President-Elect, 1991-1992

American Society of Microbiology

American Society for Biochemistry and Molecular Biology (Elected)

International Society of Travel Medicine

Sigma Xi, Research Society of North America

President, (Local Chapter) 1992-1993

President Elect, (Local Chapter) 1991-1992
Board of Director (Local Chapter), 1990-1992

6. Invited Lectures (International, National and Local (from 1999))

Cryptosporidium Infectivity and Illness in Experimentally-challenged Healthy Adults. Microbial Risk Assessment Workshop (Presenter and Expert Panelist), Environmental Protection Agency, November 18-19, 2004, Cincinnati, Ohio.

Trypanosomiasis in Texas, Waring SC and Chappell CL, Texas Branch Meeting of The American Society for Microbiology, November 4-6, 2004, Houston, Texas

Cryptosporidium: A Public Health Threat. Sam Houston State University, October 30, 2003, Seminar series, Huntsville, Texas.

Cryptosporidium Infection in Healthy Adults, Environmental Research Seminar, U.S. Environmental Protection Agency, May 28, 2003, Dallas, Texas.

Cryptosporidium parvum: Infectivity, Pathogenesis and the Host-Parasite Relationship. Seminar series, Texas A&M University, December 10, 2002, College Station, Texas.

Of Mice, Men and Cell Cultures: Cryptosporidium parvum (genotype 2) infectivity. 1st International Conference on Microbiological Risk Assessment: Foodborne Hazards, July 24-26, 2002, University of Maryland, Adelphi, Maryland.

Cryptosporidium: Bridges Over Troubled Waters, 77th Annual Education Conference of the Texas Public Health Association, March 24-26, 2002, Ft. Worth, Texas.

Cryptosporidium Volunteer Study: Infectivity and the Mucosal Response. Seminar series. Bloomberg School of Public Health, Johns Hopkins University, March 7, 2002, Baltimore, MD.

Cryptosporidium in Healthy Adults: Infectivity, Pathogenesis and the Host-Parasite Relationship. International *Cryptosporidium* from Molecules to Disease Conference, October 7-12, 2001, Fremantle, Australia.

Cryptosporidium parvum Volunteer Study: Infectivity and Immunity. Australian Society of Microbiology, September, 2001, Perth, Australia.

Host Immune Factors in Cryptosporidiosis, Environmental Protection Agency: Defining Susceptibility in Microbial Risk Assessment: A Dialogue, GWU Center for Risk Science and Public Health, June 26-27, 2001, Washington, DC,.

Cryptosporidium in Healthy Humans: How Infectious Are They? 51st Annual Conference on Diseases in Nature Transmissible to Man, May 31-June 2, 2001, Austin, Texas.

Infectivity and Virulence of Cryptosporidium Genotype H Oocysts in Healthy Adult Volunteers, STAR Drinking Water Progress Review Meeting, US EPA, National Center for Environmental Research, February 22-23, 2001, Silver Springs, MD,.

Cryptosporidium parvum Volunteer Study: Infectivity and Immunity. Center for Tropical Diseases Colloquium, February 15, 2001, Galveston, Texas.

Cryptosporidium parvum: Infectivity Studies and Serological Response, *Cryptosporidium: The Analytical Challenge Symposium*, Royal Society of Chemistry and the Drinking Water Inspectorate, October 25-26, 1999, University of Warwick, Coventry, England.

Cryptosporidium parvum (Genotype 2) Isolates Vary in Their Capacity to Infect Cultured Enterocytes and Animal Models. International Symposium on Waterborne Pathogens, August 31, 1999, Milwaukee, Wisconsin.

Cryptosporidium parvum: Infectivity in Healthy Volunteers and Laboratory Models.

Cryptosporidium Disinfection Workshop – Towards a Standardized Experimental Design for Viability and Inactivation Studies. American Water Works Association, Drinking Water Inspectorate, and Water Service Association of Australia, August 11-12, 1999, Tadley, England.

Cryptosporidium parvum Volunteer Studies, Microbial Pathogens and Disinfectant By-Products Health Effects Workshop, Environmental Protection Agency, Feb. 11-12, 1999, Washington, DC.

7. International, National, and Regional Presentations (from 1999)

Lupo, P, Langer-Curry, RC, Robinson, MA, and Chappell, CL. Identification of *Cryptosporidium muris* in a Texas canine population. 54th Annual Meeting American Society of Tropical Medicine and Hygiene, December 11-15, 2005, Washington, DC.

Chappell, CL, Okhuysen, PC, Langer, RC, Aikyoshi, D and Tzipori, S. *Cryptosporidium hominis*: Infectivity and illness in healthy adults. 53rd Annual Meeting American Society of Tropical Medicine and Hygiene, November 7-11, 2004, Miami, Florida.

Wang, H-C, Dann, SM, Okhuysen, PC, Cronn, S, Chappell, CL, White AC. *The chemokine CXCL10 (IP-10) is expressed in the intestines of AIDS patients with chronic cryptosporidiosis.* 53rd Annual Meeting American Society of Tropical Medicine and Hygiene, November 8-11, 2004, Miami, Florida.

Lee, SA, A Tsai, S Dann, AC White, CL Chappell, DC Guo, DM Milewicz, T King and PC Okhuysen. *Role of Interleukin 10 (IL 10) in susceptibility to C. parvum (CP) infection in healthy adults.* Infectious Diseases Society of America Annual meeting. September 30 – October 4, 2004, Boston, Massachusetts.

Dann, SM, Wang, HC, Okhuysen, PC, White, AC and Chappell, CL. *CD20+ B cells are associated with resistance to experimental human Cryptosporidium infections.* FASEB Summer Research Conference, "Lymphocytes and Antibodies". June 19-24, 2004, Saxton's River, Vermont.

Chappell, CL and Waring, S. *Chagas' Disease: Are we missing an emerging disease in Texas.* Diseases in Nature Conference, June 2-4, 2004, Austin, Texas.

Chappell CL, Okhuysen P, Langer R, Akiyoshi D, and Tzipori S. *Experimental infection of healthy adults with Cryptosporidium genotype 1 isolate (TU502).* The 78th Annual Meeting of the American Society of Parasitologists. August 1-5, 2003, Halifax, Nova Scotia.

Langer RC, Okhuysen PC, Tzipori S, Sterling and CL Chappell. *Cryptosporidium IgG antibodies in healthy adults is dependent upon the infecting genotype.* The 78th Annual Meeting of the American Society of Parasitologists. August 1-5, 2003, Halifax, Nova Scotia.

Dann, SM, Okhuysen, PC, Douglas, TC, Chappell, CL. *Circulating antibody-secreting lymphocytes are markers of active infection in healthy volunteers experimentally challenged with intestinal parasite Cryptosporidium parvum,* American Association of Immunologists, 90th Anniversary Annual Meeting, May 10, 2003, Denver, Colorado.

Langer, R., Okhuysen, P, Tzipori, S, Sterling, C and Chappell, CL. *Cryptosporidium IgG antibodies in healthy adults is dependent upon the infecting genotype.* Gulf Coast Tropical Medicine Association Meeting April 25-26, 2003, Galveston, TX.

Lupo, PJ, RC Langer, and CL Chappell. 2003. *Preliminary study of Cryptosporidium in kennelled dogs.* Gulf Coast Tropical Medicine Association Meeting, April 25-26, 2003, Galveston, Texas.

Chappell, CL, Okhuysen, PC, Langer, R, and Tzipori, S. *Experimental challenge of healthy*

adult volunteers with Cryptosporidium muris oocysts. 52nd Annual Meeting of The American Society of Tropical Medicine and Hygiene, December 3-7, 2003, Philadelphia, PA.

Dann, SM, Robinson, P, Okhuysen, PC, White, AC, Chappell, CL. *B-cell and secretory IgA responses to Cryptosporidium parvum infection in health volunteers*, 11th International Congress of Mucosal Immunology, June 16-20, 2002, , Orlando, Florida.

Grunenwald, PE, Langer, R, Chappell, CL, Waring, S. *Characterization of three isolates of Trypanosoma cruzi from Texas.* Diseases In Nature Conference, June 6-7, 2002, Houston, Texas.

Okhuysen, PC, Padda, RS, Tsai, A, Chappell, CL. *Molecular cloning and analysis of the Cryptosporidium parvum aminopeptidase N gene (cpapn).* Interscience Conference on Antimicrobial Agents and Chemotherapy, September, 2001, Chicago, Illinois.

Robinson, P., Weinstock, JV, Okhuysen, PC, Chappell, CL, Lewis, DE, Actor, J, Cron, S, and White, AC Jr. *Substance P is associated with symptoms in AIDS related cryptosporidiosis.* American Society for Tropical Medicine and Hygiene, November 11-15, 2001, Atlanta, GA.

Millership, JJ, Didier, ES, Chappell, CL, Okhuysen, PC and Snowden, KF. *Microsporidial aminopeptidases as targets for therapeutic agents.* New Challenges in Tropical Medicine and Parasitology, Oxford, UK, September 18-22, 2000.

Di Giovanni DG, Chappell C, and LeChevallier MW. *Real-time quantitative PCR detection of intact and infectious Cryptosporidium parvum oocysts for water industry applications.* American Society of Microbiology, May 21-25, 2000, Los Angeles, CA.

Chappell, C., Marshall, M., Widmer, G., Okhuysen, P., and Sterling, C. *Evaluation of mice and enterocytes as surrogates for human Cryptosporidium parvum (genotype 2) infection.* American Society of Parasitologists, June 24-29, 2000, San Juan, Puerto Rico.

Okhuysen, P., Robinson, P., Lewis, D., Shahab, S., Lahoti, S, Chappell, C., and White, A., Jr. *Sequential expression of IL-15, interferon gamma and IL-4 in cryptosporidiosis patients during immune reconstitution with HAART.* 7th Conference on Retroviruses, Jan 30-Feb. 2, 2000, San Francisco, CA.

White, A., Robinson, P., Okhuysen, P., Lewis, D., Shahab, I., Lahoti, S., and Chappell, C. *Intestinal cytokine responses in cryptosporidiosis.* Keystone Symposium on Innate and Acquired Immunity at Mucosal Surfaces, Jan. 18-23, 2000, Taos, New Mexico.

Dann, S.M., Salameh, B.M., Okhuysen, P.C., DuPont, H.L., and Chappell, C.L. *Fecal antibody response to Cryptosporidium parvum in healthy volunteers.* American Society of Tropical Medicine and Hygiene, November 28-December 2, 1999, Washington, DC..

Chappell, C.L., Okhuysen, P.C., Shahab, I., and DuPont, H.L. *Cellular response in the human intestinal mucosa after Cryptosporidium challenge.* American Society of Tropical Medicine and Hygiene, November 28-December 2, 1999, Washington, DC..

Robinson, P., Okhuysen, P., Lewis, D., Lahoti, S., Chappell, C., White, A. *Differential intestinal IL-15 and interferon γ expression in experimental human cryptosporidiosis.* Experimental Biology, April 17-21, 1999, Washington, DC.

E. Publications

Full Papers (Peer reviewed)

1. Grigg, J.C., **Chappell, C.**, and Wells, 1978. An immunological comparison of thrombocytes from bursectomized and intact chickens. Journal of Tennessee Academy of Science 54:122-124.
2. McGee, Z.A., Street, C., **Chappell, C.**, Cousar, E., Morris, F., and Horn, R. 1979. Pili of *Neisseria meningitidis*: effect of media on maintenance of piliation, characteristics of pili and

- colonial morphology. *Infection and Immunity* 24:194-201.
3. Gentry, L.O., **Chappell, C.L.**, and Ives, R.T. 1980. *In vitro* antibacterial activity of moxalactam (LY 127935) against gram-negative bacteria from hospitalized patients. *Current Therapeutic Research* 28:611-617.
 4. Dresden, M.H., Rutledge, M.L., and **Chappell, C.L.** 1981. Properties of the acid thiol proteinase from *Schistosoma mansoni* adults. *Molecular and Biochemical Parasitology* 4:61-66.
 5. **Chappell, C.L.** and Dresden, M.H. 1986. *Schistosoma mansoni*: Proteinase activity of 'hemoglobinase' in material from the digestive tract of adult worms. *Experimental Parasitology* 61:160-167.
 6. **Chappell, C.L.**, Dresden, M.H., and Walters, D.W. 1987. Glutathione activation of a cysteine proteinase from *Schistosoma mansoni*. *Biochimica et Biophysica Acta* 913:335-341.
 7. **Chappell, C.L.** and Dresden, M.H. 1987. Purification of cysteine proteinases from adult *Schistosoma mansoni*: *Archives of Biochemistry and Biophysics* 256:560-568.
 8. Zerda, K.S., Dresden, M.H., Damian, R.T., and **Chappell, C.L.** 1987. *Schistosoma mansoni*: Anti-SMw32 proteinase response in vaccinated and challenged baboons. *American Journal of Tropical Medicine and Hygiene* 37:320-326.
 9. **Chappell, C.L.** and Dresden, M.H. 1988. Antibody response to a purified parasite proteinase (SMw32) in *Schistosoma mansoni*-infected mice. *American Journal of Tropical Medicine and Hygiene* 39:66-73.
 10. **Chappell, C.L.**, Kalter, D.C., and Dresden, M.H. 1988. The hypersensitivity response to the adult worm proteinase, SMw32 in *Schistosoma mansoni* infected mice. *American Journal of Tropical Medicine and Hygiene* 39:463-468.
 11. Zerda, K.S., Dresden, M.H., and **Chappell, C.L.** 1988. *Schistosoma mansoni* expression and role of cysteine proteinases in developing schistosomula. *Experimental Parasitology* 67:238-246.
 12. **Chappell, C.L.**, Hackel, J., and Davis, A.H., 1989. Cloned *Schistosoma mansoni* proteinase (hemoglobinase) as a putative serodiagnostic reagent. *Journal of Clinical Microbiology* 27:196-198.
 13. Price, T.M., Dresden, M.H., Alvarado, T. Flanagan, J., and **Chappell, C.L.** 1989. Coenuriasis in a spectacled langur (*Presbytis obscura*): Praziquantel treatment and the antibody response to cyst antigens. *American Journal of Tropical Medicine and Hygiene* 40:514-520.
 14. **Chappell, C.L.**, Dresden, M.H., Gryseels, B., and Deelder, A.M. 1990. Antibody response to *Schistosoma mansoni* adult worm cysteine proteinases in infected individuals. *American Journal of Tropical Medicine and Hygiene* 42: 335-341.
 15. **Chappell, C.L.**, Enos, J.P., and Penn, H.M. 1990. *Dipylidium caninum*, an underrecognized infection in infants and children. *Pediatric Infectious Diseases Journal* 9:745-747.
 16. **Chappell, C.L.**, Enos, J.P., and Penn, H.M. 1990. *Dipylidium caninum*, an underrecognized infection in infants and children. *Clinical Digest Series*. Abstracted from Above Reference.
 17. Holleman, M.C. and **Chappell, C.L.** 1992. *Acaridae* incognito: The case of the mighty mite. *Journal of the American Board of Family Practice* 5:639-643.
 18. **Chappell, C.L.** and Matson, C.C. 1992. *Giardia* antigen detection in patients with chronic gastrointestinal disturbances. *Journal of Family Practice* 35:49-53.
- Chappell, C.L.** and Matson, C.C. 1992. Rapid diagnosis of *Giardia* infection. *AMA Journal Watch*, September 1, 1992, p.35. Abstracted From ref. 18.
- and
Chappell, C.L. and Matson, C.C., 1992. Die sensitivitat der mikroskopie verglichen mit

- enzymimmunoassays in der labor Diagnostik der giardiasis. *Clinical Laboratory* 43:1171, 1997. Abstracted from ref 18.
19. Goodgame, R.W., Genta, R.M., White, A.C. and **Chappell, C.L.** 1993. Intensity of infection in AIDS-associated cryptosporidiosis. *Journal of Infectious Diseases* 167:704-709.
 20. Holleman, W.L. and **Chappell, C.L.** 1993. Should hospital ethics committees be available to review lapses in scientific integrity? *Healthcare Ethics Committee Forum [Invited Paper]*, 5:47-51.
 21. Yoshino, T.P., Lodes, M.J., Rege, A.A. and **Chappell, C. L.** 1993. Proteinase activity in miracidia, transformation excretory - secretory products, and primary sporocysts of *Schistosoma mansoni*. *Journal of Parasitology* 79:23-31.
 22. Genta, R.M., **Chappell, C.L.**, White, A.C., Jr. Kimball, K.T. and Goodgame, R.W. 1993. Duodenal morphology and intensity of infection in AIDS-related intestinal cryptosporidiosis. *Gastroenterology* 108:1769-1775.
 23. Song, C.Y. and **Chappell, C.L.** 1993. Purification and partial characterization of cysteine proteinase from *Spirometra mansoni* plerocercoids. *Journal of Parasitology* 79:517-524.
 24. White, A.C., **Chappell, C.L.**, Hayat, C.S., Kimball, K.T., Flanagan, T.P. and Goodgame, R.W. 1994. Paramomycin for cryptosporidiosis in AIDS: A prospective double-blind trial. *Journal of Infectious Diseases* 170:419-424.
 25. Okhuysen, P.C., DuPont, H.L., Sterling, C.R. and **Chappell, C.L.** 1994. Arginine aminopeptidase, an integral membrane protein of the *Cryptosporidium parvum* sporozoite. *Infection and Immunity* 62:4667-4670.
 26. Goodgame, R.W., Kimball, K., Ou, C.N., White, A.C., Jr., Genta, R.M., Lifshitz, C.H. and **Chappell, C.L.** 1995. Intestinal function and injury in AIDS-related cryptosporidiosis. *Gastroenterology* 108:1075-1082.
 27. DuPont, H.L., **Chappell, C.L.**, Sterling, C.R., Okhuysen, P.C., Rose, J.B. and Jakubowski, W. 1995. The infectivity of *Cryptosporidium parvum* in healthy volunteers. *New England Journal of Medicine* 332:855-859.
 28. Mahmud, M.A., **Chappell, C.L.**, Hossain, M.M., Habib, M. and DuPont, H.L. 1995. Risk factors for development of first symptomatic *Giardia* infection among infants of a birth cohort in rural Egypt. *American Journal of Tropical Medicine and Hygiene* 53:84-88.
 29. **Chappell, C.L.**, Okhuysen, P.C., Sterling, C.R. and DuPont, H.L. 1996. *Cryptosporidium parvum*: Intensity of infection and oocyst excretion patterns in healthy volunteers. *Journal of Infectious Diseases* 173:232-236.
 30. Okhuysen, P.C., **Chappell, C.L.**, Kettner, C., and Sterling, C.R. 1996. *Cryptosporidium parvum* metallo-aminopeptidase inhibitors prevent in vitro excystation. *Antimicrobial Agents and Chemotherapy*. 40:2781-2784.
 31. Valdez, L.M., Dang, H., Okhuysen, P.C. and **Chappell, C.L.** 1997. Flow cytometric detection of *Cryptosporidium* oocysts in human stool samples. *Journal of Clinical Microbiology* 35:2013-2017.
 32. Hashmey, R., Smith, N.H., Cron, S., Graviss, E.A., **Chappell, C.L.**, and White, A.C. 1997. Cryptosporidiosis in Houston, Texas. A report of 95 cases. *Medicine* 76:118-139.
 33. White, A.C., Baig, S., **Chappell, C.L.** 1997. Characterization of a cysteine proteinase from *Taenia crassiceps* cysts. *Molecular & Biochemical Parasitology* 85:243-253.
 34. Okhuysen, P.C., **Chappell, C.L.**, Sterling, C.R., Jakubowski, W. and DuPont, H.L. 1998. Susceptibility of healthy adults to reinfection with *Cryptosporidium parvum*. *Infection and*

- Immunity 66:41-43.
35. Okhuysen, P.O., **Chappell, C.L.**, Crabb, J., Valdez, L.M., Douglass, E., and DuPont, H.L. 1998. Prophylactic effect of bovine anti-*Cryptosporidium* hyperimmune colostrum in healthy volunteers challenged with *Cryptosporidium parvum*. *Clinical Infectious Diseases* 26:1324-1329.
 36. Moss, D.M., **Chappell, C.L.**, Okhuysen, P.C., DuPont, H.L., Arrowood, M.J., Hightower, A.W., and Lammie, P.J. 1998. The antibody response to 27-, 17-, and 15 kDa *Cryptosporidium* antigen following experimental infection in humans. *Journal of Infectious Diseases* 178:827-833.
 37. Smith, N.H., Cron, S., Valdez, L.M., **Chappell, C.L.**, and White, A.C. 1998. Combination drug therapy for cryptosporidiosis in AIDS. *Journal of Infectious Diseases* 178:900-903.
 38. Widmer, G., Tchack, L., **Chappell, C.** and Tzipori, S. 1998. Sequence polymorphism in the β -tubulin gene reveals heterogeneous and variable population structures in *Cryptosporidium parvum*. *Applied and Environmental Microbiology* 64:4477-4481 .
 39. **Chappell, C.L.**, Okhuysen, P.C., Sterling, C.R., Wang, C., Jakubowski, W. and DuPont, H.L. 1999. Infectivity of *Cryptosporidium parvum* in healthy adults with pre-existing anti-*C. parvum* serum IgG. *American Journal of Tropical Medicine and Hygiene* 60:157-164.
 40. Okhuysen, P.C., **Chappell, C.L.**, Crabb, J.H., Sterling, C.R., and DuPont, H.L. 1999. Virulence of three distinct *Cryptosporidium parvum* isolates for healthy adults. *Journal of Infectious Diseases* 180:1275-1281.
 41. White, AC, Jr., Robinson, P, Okhuysen, PC, Lewis, DE, Shahab, I, Lahoti, S, DuPont, HL and **Chappell, CL.** 2000. Interferon gamma expression in jejunal biopsies in experimental human cryptosporidiosis correlates with prior sensitization and control of oocyst excretion. *Journal of Infectious Diseases* 181:701-709.
 42. Dann, SM, Okhuysen, PC, DuPont, HL and **Chappell, CL.** 2000. Fecal antibody response to *Cryptosporidium parvum* in healthy volunteers. *Infection and Immunity* 68:5068-5074.
 43. Robinson P., Okhuysen P.C., **Chappell, C.L.**, Lewis D.E., Shahab I., Lahoti S., White, Jr, A.C. 2000. Transforming growth factor beta1 is expressed in the jejunum after experimental human *Cryptosporidium parvum* infection in humans. *Infection and Immunity* 68:5405-5407
 44. Hayat, C.S., **Chappell, C.L.**, White, A.C., Kimball, K., Goodgame, R.W. and Genta, R.M. 2000. *Cryptosporidium* antigen detection in AIDS patients with diarrhea. *Pakistan Journal of Biological Sciences* 3:1100-1103.
 45. Robinson, P., Okhuysen, P.C., **Chappell, C.L.**, Lewis, D.E., Shahab, I., Janecki, A., and White, A.C., Jr. 2001. Expression of tumor necrosis factor-alpha and interleukin-1beta in the jejunum of volunteers after experimental challenge with *Cryptosporidium parvum* correlates with exposure but not with symptoms. *Infection and Immunity* 69:1172-1174.
 46. **Chappell, C.L.**, Wright, J.A., Coletta, M., Newsome, A.L. 2001. Standardized method of measuring *Acanthamoeba* antibodies in sera from healthy human subjects. *Clinical and Diagnostic Laboratory Immunology* 8:724-730.
 47. Messner, M.J., **Chappell, C.L.**, and Okhuysen, P.C. 2001. Risk assessment for *Cryptosporidium*: A hierarchical Bayesian analysis of human dose response data. *Water Research* 35:3934-3940.
 48. Okhuysen P.C., Robinson P., Nguyen M.T., Nannini E.C., Lewis D.E., Lahoti S., **Chappell, C.L.**, Shahab I., and White, Jr, A.C. 2001. The jejunal cytokine response in patients with AIDS associated cryptosporidiosis during immune reconstitution. *AIDS* 15:802-804.
 49. Hassan, M.M., Zaghoul, A.S., El-Serag, H.B., Soliman, O., Patt, Y.Z., **Chappell, C.L.**,

- Beasley, R.P., and Hwang, L.-Y. 2001. Risk factors for hepatocellular carcinoma in Egyptian patients: A case control study. *Journal of Clinical Gastroenterology* 33:123-126.
50. Robinson, P., Okhuysen, P.C., **Chappell, C.L.**, Lewis, D.E., Shahab, I., Lahoti, S., and White, A.C., Jr. 2001. Expression of IL-15 and IL-4 IFN-gamma-independent control of experimental human *Cryptosporidium parvum* infection. *Cytokine* 15:39-46.
51. Mahmud, M.A., **Chappell, C.L.**, Hossain, M.M., Huang, D.B., Habib, M., and DuPont, H.L. 2001. Impact of breast-feeding on *Giardia lamblia* infection in Bilbeis, Egypt. *American Journal of Tropical Medicine and Hygiene* 65:257-260.
52. Millership, J.J., **Chappell, C.L.**, Okhuysen, P.C. and Snowden, K.F. 2002. Characterization of a cytosolic aminopeptidase from *Encephalitozoon intestinalis*. *Parasitology* 124:1-7.
53. Teunis, P.F.M., **Chappell, C.L.** and Okhuysen, P.C. 2002. *Cryptosporidium* dose response studies: variation between isolates. *Risk Analysis* 22:175-183.
54. Padda, R.S., Tsai, A., **Chappell, C.L.**, Okhuysen, P.C. 2002. Molecular cloning and analysis of the *Cryptosporidium parvum* aminopeptidase N gene. *International Journal for Parasitology* 32:187-197.
55. Okhuysen, P.C., and **Chappell, C.L.** 2002. *Cryptosporidium* virulence determinants - are we there yet? *International Journal of Parasitology* 32:517-525.
56. Okhuysen, P.C., Rich, S.M., **Chappell, C.L.**, Grimes, K., Widmer, G., Feng, X., and Tzipori, S. 2002. Infectivity of a *Cryptosporidium parvum* isolate of cervine origin for healthy adults and gamma interferon- γ knockout mice. *Journal of Infectious Diseases* 185:1320-1325.
57. Teunis, P.F.M., **Chappell, C.L.** and Okhuysen, P.C. 2002. *Cryptosporidium* dose response studies: variation between hosts. *Risk Analysis* 22:475-485.
58. Millership, J.J., **Chappell, C.**, Okhuysen, P.C. and Snowden, K.F. 2002. Characterization of aminopeptidase activity from three species of microsporidia: *Encephalitozoon cuniculi*, *Encephalitozoon hellum*, and *Vittaforma corneae*. *Journal of Parasitology* 88:843-848.
59. **Chappell, C.L.**, Okhuysen, P.C. 2002. Cryptosporidiosis. *Current Opinion in Infectious Diseases*, 15:523-7.
60. Alcantara, C.S., Yang, C.-H., Steiner, T.S., Barrett, L.J., Lima, A.A.M., **Chappell, C.L.**, Okhuysen, P.C., White, A.C, and Guerrant, R.L. 2003. Interleukin-8, tumor necrosis factor- α , and lactoferrin in immunocompetent hosts with experimental and Brazilian children with acquired cryptosporidiosis. *American Journal of Tropical Medicine and Hygiene*, 68:325-328.
61. Robinson, P., Okhuysen, P.C., **Chappell, C.L.**, Weinstock, J., Lewis, D.E., Actor, J.K., and White, A.C., Jr. 2003. Substance P expression correlates with severity of diarrhea in cryptosporidiosis. *Journal of Infectious Diseases* 188:290-296.
62. Seville, R.S., Couch, L., Seed, R., **Chappell, C.L.**, Cairra, J., Patton, S. 2004. Infection in the classroom: Parasites as models to teach biology. *The American Biology Teacher*, 66:43-49.
63. Okhuysen, P.C., Rogers, G.A., Crisanti, A., Spano, F., Huang, D.B., **Chappell, C.L.**, and Tzipori, S., 2004. Antibody response of healthy adults to recombinant thrombospondin-related adhesive protein of *Cryptosporidium* 1 after experimental exposure to *Cryptosporidium* oocysts. *Clinical and Diagnostic Laboratory Immunology*, 11(2):235-238.
64. Shadomy, S.V. Waring, S.C., Martins-Filho, O., Correa-Oliveira, R., and **Chappell, C.L.**, 2004. Combined use of enzyme-linked immunosorbent assay and flow cytometry to detect antibodies to *Trypanosoma cruzi* in domestic canines in Texas. *Clinical and Diagnostic Laboratory Immunology* 11(2):313-319.

65. Huang, D.B., **Chappell, C.**, and Okhuysen, P.C. 2004. Cryptosporidiosis in children. *Seminars in Pediatric Infectious Diseases*, 15:253-259.
66. Kjos, S., Jenkins, R., Okhuysen, P.C., and **Chappell, C.L.** 2005. Evaluation of a recombinant oocyst protein (CP41) in the detection of *Cryptosporidium*-specific antibodies. *Clinical Diagnostic and Laboratory Immunology*, 12:268-272.
67. Okhuysen P.C., **Chappell C.L.**, Lewis D.E., Robinson P., White AC Jr. 2005. Treatment of chronic cryptosporidiosis in AIDS with rIL-12 induces an immune response associated with improvement but severe side-effects. *AIDS*. 19(12):1333-4, 2005.
68. **Chappell, C.L.**, Okhuysen, P.C., Langer-Curry, R.C., Widmer, G., Akiyoshi, D.E., Tanriverdi, S. and Tzipori, S. *Cryptosporidium hominis*: Experimental challenge of healthy adults. *American Journal of Tropical Medicine and Hygiene*, in press.
69. Wang, H-C., Dann, S.M., Okhuysen, P.C., Lewis, D.E., **Chappell, C.L.**, White, A.C., Jr. High levels of CXCL10 are produced by intestinal epithelial cells in AIDS patients with active cryptosporidiosis but not after immune reconstitution. In press.

Submitted for Publication:

1. Dann, S.M., Wang, H.-C., Okhuysen, P.C., White, A. C. Jr., and Chappell, C.L. CD20+ B cells are associated with resistance to experimental human *Cryptosporidium* infection. Submitted.
 2. Dann, S.M., Okhuysen, P.C., DuPont, H. L., and Chappell, C.L. Fecal antibody response to *Cryptosporidium parvum* following a second experimental challenge in healthy volunteers. Submitted.
2. Books

Complete Books

Chappell, C.L. (1976) "Thrombocyte Specificity in Two Strains of *Gallus domesticus*," Master's Thesis, December.

Chappell, C.L. (1985) "Cysteiny Proteinases of *Schistosoma mansoni* Adults: Purification, Characterization and Immunogenicity," Dissertation. 136pp.

Book Chapters

Chappell, C.L. and Dresden M.H. (1986) *Schistosoma mansoni* Adult Worm Proteinase: Tissue Localization in the Parasite and Antibody Response in Infected Animals, In: Molecular Strategies of Parasitic Invasion. Alan R. Liss, Inc., New York, NY, p. 399-408.

Chappell, C.L. and Dresden M.H. (1986) *Characterization of a Cysteiny Proteinase from the Human Parasite, Schistosoma mansoni*, In: Cysteine Proteinases and Their Inhibitors (V. Turk, ed.), Walter de Gruyter, New York, p. 199-208.

Chappell, C.L. and Corboy, J. (1995) *Parasitology and Travel Medicine*, In: Textbook of Family Medicine, 5th Ed., W.B. Saunders Co., Philadelphia, p. 506-521.

Chappell, C.L. and Okhuysen, P.C. (1996) *Intestinal Protozoa*, In: Textbook of Internal Medicine, W.N. Kelley, Ed., J.B. Lippincott Co., Philadelphia, p. 1791-1794. [Updated for 4th edition, 1999].

Chappell, C.L. and Okhuysen, P.C. (2001) *Cryptosporidiosis in Healthy Volunteers*, In: Cryptosporidium: The Analytical Challenge, M. Smith, Ed., Royal Society of Chemistry, London, pp 62-72.

Chappell, C.L., Okhuysen, P.C. 2002. *Cryptosporidiosis*, In: North American Parasitic Zoonoses, D. J. Richardson, and P.J. Krause (eds.), Kluwer Academic Publishers, Norwell, Massachusetts, pp 113-128.

Chappell, C.L., Okhuysen, P.C. and White, A.C., Jr. 2004. *Cryptosporidium parvum: Infectivity, Pathogenesis and the Host-Parasite Relationship*. In *Cryptosporidium: From Molecules to Disease*. R. Thompson, A. Armson and U. Ryan (eds.) Elsevier Science. p 19-50.

Chappell, C.L., Okhuysen, P.C., DuPont, H.L., Sterling, C.R., and Tzipori, S. 2004. *Cryptosporidium parvum* Volunteer Study: Infectivity and Immunity. In *Cryptosporidium: From Molecules to Disease*. R. Thompson, A. Armson and U. Ryan (eds.) Elsevier Science. pp. 79-82.

3. Published Reports

Contributor, "The Health and Health Service Systems of Texans on the Texas-Mexico Border: Public Policy Implications", Prepared for Senator Eliot Shapleigh, March, 2002.

Contributor and participant, "Predicting human dose response relationships from multiple biological models: Issues with *Cryptosporidium parvum*", Report on a workshop from the USDA Center at Riverside, Riverdale, MD, September 28, 2000.

<http://www.foodriskclearinghouse.umd.edu/crypto/RACpublic9-00.html>

Contributor and participant, "Towards a standardized experimental design for viability and inactivation studies". Report on a Workshop for *Cryptosporidium* and Water, Prof. Ian Bouchier, Chair, Tadley Court, Tadley, Hampshire, England, August 1999.

<http://www.dwi.detr.gov.uk/pubs/>

4. Letters to the editor

White A.C., Jr., Cron, S.G., and **Chappell, C.L.**, 2001. Paromomycin in cryptosporidiosis. *Clinical Infectious Diseases* 32(10):1516-1517.

Chappell, C.L., Okhuysen, P.C., Dann, S.M. 2001. Serological responses to *Cryptosporidium* infection. *Infection and Immunity* 69(3):1974-1975.

III. TEACHING INFORMATION

A. Didactic Course Work

Current and past courses:

Ethical Dimensions of Biomedical Science (Lecturer and Discussion Leader)

Immunology (Coordinator and lecturer)

Introduction to Human Biology (Coordinator and lecturer)

Public Health Microbiology I, (Coordinator and lecturer)

Seminar in Emerging Infectious Diseases (Co-coordinator)

Regular guest lecturer

Epidemiology and Control of Infectious Diseases

Natural History of Diseases

Pathophysiology of Disease – Physician's Assistant Program, Baylor College of Medicine

Public Health Microbiology II

Infection and Immunity (Baylor College of Medicine)

Introduction to Infectious Diseases

Occasional guest Lecturer

Emerging Zoonotic Diseases

Introduction to Epidemiology

Medical Geography

Topics in Public Health History, Science and Practice

Ethics in Medicine Lecture Series

B. Non-Didactic Teaching

1. Research Fellow Training

Mary Elizabeth Gardner, NIH High School Teacher Fellowship, Summer, 1999
Elizabeth Douglass, M.D. Infectious Diseases Research Fellow, 1996-97
Luis Valdez, M.D., Infectious Diseases Research Fellow, 1995-96
Pablo Okhuysen, M.D., Infectious Diseases Research Fellow, 1993-94
Steven Watson, M.D., Family Medicine Research Fellow, 1991
Louis A. Kazal, M.D., Family Medicine Research Fellow, 1990
Fernando G. Monroy, Ph.D, Post-Doctoral Fellow, 1989-1990 (In Completion of Training)
Begun with Dr. Marc H. Dresden, (deceased)
Carolyn Judd, Meadows Foundation Fellow, 1989-1990
Mary Elizabeth Gardner, ASBMB High School Teacher Summer Fellow, 1989 Graduate Student Training

2. Graduate Student Training (Research Advisor)

Ellen Willmore, Disease Control, MPH Program, *Control of Norovirus Outbreaks in Healthcare Settings: A Literature Review*, The University of Texas School of Public Health, at Houston, 2001-present.

Heather Elfman, Biological Sciences, MS Program, *Antigenic Variation of Surface Antigens Expressed on Trypanosoma cruzi Trypomastigotes*, The University of Texas School of Public Health, at Houston, 2004-present.

Sara Dann, Biological Sciences, Ph.D. Program, *Mucosal B cell Response to Cryptosporidium parvum*. The University of Texas School of Public Health, at Houston, 1999-2005

Jason Millership, Veterinary Microbiology, PhD Program, *Aminopeptidases of microsporidia*. Texas A&M University School of Veterinary Medicine, 1999-2002

Sonia Baker, Epidemiology, M.S. Program, *Development of a Recombinant Cryptosporidium Antigen Assay System for Epidemiological Studies*. The University of Texas School of Public Health, at Houston, 1999-2002

John Allen Wright, MPH Program, *Serological Evidence of Anti-Acanthamoeba Antibodies in Healthy and Tuberculous Patients*. The University of Texas School of Public Health, at Houston, 2000-2003 [Thesis not completed].

Jennifer Locke, MPH Program, *In Vitro Infection of Cryptosporidium parvum: Effects of Extracts from Human Intestinal Flora*. The University of Texas School of Public Health, at Houston, 2000-2001

Larisa Alonso, MS Program in Biological Sciences, *Plasma Selenium and Zinc and T-Lymphocytes in Gastrointestinal Chagas' Disease*, 1999-2000.

Michael Coletta, Disease Control, M.P.H. Program, *Serological Reactivity to Acanthamoeba spp. in Selected Populations*. The University of Texas, School of Public Health at Houston, 1997-1998.

Sara Dann, Biological Sciences, M.S. Program, *Fecal Antibody Response to Cryptosporidium parvum in Healthy Volunteers*. The University of Texas, School of Public Health at Houston, 1996-1999.

Constance Wang, Epidemiology, M.S. Program, The University of Texas School of Public Health at Houston, 1995-1998.

Christine Bridges, Physician's Assistant Program, *A Survey of Bacterial and Parasitic Causes of Infectious Diarrhea Reported to the City of Houston Health Department, 1996 and 1997*. Baylor College of Medicine. 1997-1998.

Georgia Nothdurft, Physician's Assistant Program. *Cryptosporidium parvum: Pre- and Post-challenge Serum Antibody Response in Sensitized Individuals*. Baylor College of Medicine. 1996-1997.

Han Dang, Disease Control, M.P.H. Program, *Serum Antibody Response in Volunteers Challenged with Cryptosporidium parvum*. The University of Texas, School of Public Health, at Houston 1995-1997.

Karen Dailey, Disease Control, M.P.H. Program, *Prevalence of Giardiasis in the Children of St.*

Petersburg (Leningrad). The University of Texas, School of Public Health, at Houston, 1996. [Incomplete]

Thomas Kumenda, Disease Control, M.P.H. Program, *Outbreak of Balantidiosis in an Animal Care Facility*. The University of Texas-Houston, School of Public Health, 1995-1998.

Janice Jackson, Disease Control, M.P.H. Program, *The Serum Antibody Response to Sporozoite Antigens of Cryptosporidium parvum in Experimental Human Infections*. The University of Texas-Houston, School of Public Health, 1995-1996.

Bassam Salameh, Disease Control, Dr.P.H. Program, The University of Texas-Houston, School of Public Health, 1993-1996. [Dissertation not completed]

Laura Tabony, Disease Control, M.P.H. Program, *Trypanosoma cruzi (Chagas' Disease): A Study of Prevalence in Selected Texas Blood Donor Populations*. The University of Texas-Houston, School of Public Health, 1993-1995.

Simon Gould, Ph.D., Dissertation Committee Member, Department of Physiology, University of Texas Medical School, 1990-1993.

3. Undergraduate Research Training Programs

Pharmacy Undergraduate Research & Mentorship Program, Texas Southern University School of Pharmacy, Necie Crook, July 1997 - January 1998

Pharmacy Undergraduate Research & Mentorship Program, Texas Southern University School of Pharmacy, Jillian Nyang'or, June 1998-1999.

Summer Medical and Research Training Program,

Jacob McDowell, 1999

Elizabeth Balhoff, 1996

Sarah Plowman, 1996

Hugh Taylor, 1993

Susan Jew, 1992

Thuan T. Tran, summer, 1990 and 1991

Minority High School Student/Teacher Apprentice Program,

Rachael Roberts, 1993

Danny Nguyen, summer, 1992

Senior Honors Research, Thuan Tran, 1991, Miami University of Ohio

C. Special Lectures

Presentation, "Brazilian Research Initiative", to UTHSC Administrative Staff, 1994

Colloquium Series Lecture in The University of Texas School of Public Health at Houston, "Cryptosporidium, an Emerging Public Health Threat," November 30, 1995.

Visiting Professor, Middle Tennessee State University, "Cryptosporidiosis, an Emerging Public Health Problem," April 6, 1995.

Coordinator and Lecturer, Workshop in "Practical Approach to Parasitology" 19th Annual Family Medicine Review Course, 1993-1995.

IV. ADMINISTRATIVE ASSIGNMENTS

A. Institutional Standing Committees and Activities

The University of Texas Health Science Center

Animal Welfare Committee (1994-present)

Chair (2005-present)

Vice-Chairperson (1996-2005)

UTHSC Academic Council, 2003-present

Postdoctoral Certificate Program Advisory Committee, 2006-present

Core Committee for the Advancement of Women and Minorities (2001-2004)

B. Institutional Ad Hoc Committees

Clinical Scientist Training Program, Training Advisory Board, 2006-present

School of Nursing Search Committee for Executive Associate Dean, 2005

Center for Laboratory Animal Medicine and Care Search Committee for Staff Veterinarian, 2005

The University of Texas Health Science Center
Endowment Compliance Committee (2002-2003)

C. Departmental/School Committees and Activities

The University of Texas School of Public Health
Executive Council, 2004-present

The University of Texas School of Public Health
Academic Council (Co-chair), 2004-present

The University of Texas School of Public Health
Liaison to the National Board of Public Health Examiners, 2006-present

The University of Texas School of Public Health
Director, Center for Infectious Diseases (2000-2002)

The University of Texas School of Public Health
Acting Director, Center for Infectious Diseases (1995-2000)

The University of Texas School of Public Health
Co-Convener, Biological Sciences (1994-1996)

The University of Texas School of Public Health Committee Assignments:

- EOHS Research Strategic Planning Committee (2006)
- Steering Committee for Dental Branch Training Grant (September, 2002-present)
- SPH Organizational Concept Committee (2002)
- Facilities Master Plan – Laboratory Users Group, Chair (1999)
- Laboratory Infrastructure Task Force, Chair (1999)
- Building Renovation Steering Committee (1999)
- James H. Steele/R.W. Johnson Visiting Professor Selection Committee (1994-Present)
- Faculty Research Symposium Organizing Committee (1996)
- Faculty Affairs Committee (1995-1996)
- Admissions Committee (1995-1996)
- Dean's Advisory Council (1995-1996)
- Distance Education Task Force (1994-1995)

V. COMMUNITY SERVICE INFORMATION

A. Educational or Voluntary Health Organization Participation (since 1999)

Interviewed by Claudia Feldman, "Ever hear of giardiasis?", Houston Chronicle, August 22, 2005.

Invited lecture, "Life Cycle of *Cryptosporidium*", Spring Woods High School, Medical Microbiology and Pathophysiology Distance Learning Course, September 15, 2004.

Invited talk, "Chagas' Disease: An Emerging Disease in Texas?", Houston Department of Health and Human Services, Bureau of Epidemiology, January 20, 2005

Film, "The Biology of Homosexuality", directed by Sara Fernandez and produced by PFLAG, August-October, 2005.

Invited talk, "The Biological Basis of Human Sexual Orientation":
UT Medical School Gay-Straight Alliance, September 11, 2006
Series on Homosexuality, St. Peter's United Methodist Church, October 21, 2005
Parents and Friends of Lesbians and Gays (PFLAG), August 21, 2005
GLBT Association, MD Anderson Cancer Center, July 21, 2005
Parents and Friends of Lesbians and Gays (PFLAG), February 6, 2005
Family Services of Greater Houston (therapists), January 14, 2005
St. Philip's Presbyterian Church, September 13, 2004
Christian Education Commission, New Hope Lutheran Church, May 9, 2004
Memorial Drive United Methodist Church, November 2, 2004
Parents and Friends of Lesbians and Gays (PFLAG), January 4, 2004.

Yuck! Poolside Parasites, Article published in UTHSC "Health Leader", July 26, 2004

Lecturer, Houston Baptist University, *Cryptosporidium*, October 11, 2002.

Telephone interview, *UT-Health Leader*, on line consumer service magazine, Vaccines and Childhood Immunization, August 1, 2002.

Cryptosporidium: Bridging Troubled Waters, Texas Department of Health Quarterly CME Conference, "Perspectives in Public Health; TDH Quarterly CME Conference - Hot Topics in Public Health", Houston, Texas, June 14, 2002.

Speaker and panelist, "Women in Research", Women's Resource Center, Rice University, March 20, 2001.

Lecturer (ITV) and participant, Distance Learning Microbiology and Pathophysiology Project, Spring Branch Independent School District, Distance Learning Project 2000 (PI: Gilbert Castro, PhD), March 28 & 30, 2001.

Lecturer (ITV) and participant, Distance Learning Microbiology and Pathophysiology Project, Spring Branch Independent School District, Distance Learning Project 2000 (PI: Gilbert Castro, PhD), Spring, 2000.

Waterborne Cryptosporidiosis, Article for Disease Prevention News, Texas Department of Health, August 1999.

Lecturer, Summer Conference on *Opportunities in Public Health for Science Majors* (1997-1999).

Hosted Juarez Public Health Officials for All Day Meeting on Chagas' Disease Surveillance, June 15, 1999.

B. Consultations

Consultation and laboratory testing for *Cryptosporidium*, Houston Zoological Gardens, July 2004.

Telephone consultation, Quintiles, Assessment of market potential for drug; active against *B. hominis*, *Entamoeba* and *C. difficile*. December 17, 2003.

Telephone consultation, *Chagas Disease*, Texas Department of Health, November 20, 2003.

C. Other Pertinent Information Not Given Above

U.S. Patent Serial 5,384,244 for "Peptide and Method of Use for Detection of *Schistosomiasis*", issued January 24, 1995.