

SIPS 2023, in Honor of Nobel Laureate, Prof. Stanley Whittingham

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**GUERRANT
INTERNATIONAL
SYMPOSIUM
on COVID-19**

27 Nov - 1 Dec 2023, Hyatt's Dreams Playa Bonita, Panama

Updated Dec 30, 2022

CURRICULUM VITAE RICHARD LITTLETON GUERRANT, M.D.

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PERSONAL DATA

Birthplace: Roanoke, Virginia
Citizenship: United States
Marital Status: Married to Nancy Lee Brearley in 1965
Children: Jeffrey Littleton Guerrant, born 1968
Amy Lee Guerrant, born 1970
David Ingles Guerrant, born 1977

EDUCATION

B.S. 1961-1964 Davidson College, Davidson, North Carolina
M.D. 1964-1968 University of Virginia School of Medicine,
Charlottesville, Virginia

PROFESSIONAL CAREER

1968-69 Intern, Harvard Medical Service, Boston City Hospital (Dr. Maxwell Finland),
Boston, Massachusetts
1969-70 Assistant Resident Physician, Harvard Medical Service, Boston City
Hospital (Dr. James Jandl), Boston, Massachusetts

- 1970-71 Staff Associate, National Institutes of Health, National Institute of Allergy and Infectious Diseases, assigned to Cholera Research Laboratory, Dacca, Bangladesh (Dr. John Seal)
- 1971-72 Staff Associate, National Institutes of Health, National Institute of Allergy and Infectious Diseases, assigned to Gerontology Research Building and Johns Hopkins University School of Medicine (Drs. John Seal and Charles C.J. Carpenter), Baltimore, Maryland
- 1972-73 Chief Resident and Instructor in Medicine, University of Virginia Hospital (Dr. Edward W. Hook), Charlottesville, Virginia
- 1973-74 Fellow in Medicine (Infectious Diseases, Dr. Gerald L. Mandell), University of Virginia Hospital, Charlottesville, Virginia
- 1974-76 Assistant Professor of Medicine, University of Virginia School of Medicine, Charlottesville, Virginia
- 1976-81 Associate Professor of Medicine (1978, with tenure), University of Virginia School of Medicine, Charlottesville, Virginia
- 1978- Head, Division of Geographic and International Medicine, University of Virginia School of Medicine, Charlottesville, Virginia
- 1981- Professor of Medicine, University of Virginia School of Medicine, Charlottesville, Virginia
- 1991- Thomas H. Hunter, Professor of International Medicine, University of Virginia School of Medicine in Charlottesville
- 1994-2012 Director, Office of International Health and Center for Global Health, University of Virginia School of Medicine, Charlottesville, VA
- 2012- Founding Director, Center for Global Health, University of Virginia

MILITARY SERVICE

- 1970-72 Lieutenant Commander, U.S. Public Health Service, National Institutes of Health, Bethesda, Maryland

BOARD CERTIFICATION

American Board of Internal Medicine (1973)

SUBSPECIALTY BOARDS: Infectious Diseases (1976); ASTMH Certificate in Tropical and Travel Medicine

PROFESSIONAL SOCIETY MEMBERSHIPS AND HONORS

Fellow of the American College of Physicians

Alpha Omega Alpha

The Raven Society, University of Virginia

Smith, Kline and French Foreign Fellowship (Democratic Republic of the Congo, 1967)

Albemarle County Medical Society

American Federation for Clinical Research

American Society for Microbiology

George Morris Piersol Teaching and Research Scholar, American College of Physicians
(July 1974-June 1977)

The John Horsley Memorial Prize for excellence in research (1974)

Southern Society for Clinical Investigation

Society for Experimental Biology and Medicine

Fellow, Infectious Disease Society of America

American Society of Tropical Medicine and Hygiene

American Society for Microbiology Visiting Professorship, LAPP Program, University of
Campinas, São Paulo, Brazil (April 1981)

American Society for Clinical Investigation (1981)

Fellow of the Royal Society of Tropical Medicine and Hygiene

Member of the Tropical Disease Research Advisory Committee, The Edna McConnell
Clark Foundation (1982-1985)

Chairman, Division B (Pathogenesis of Bacterial Mycotic and Protozoal Infections),
American Society for Microbiology (1985)

Chairman for State of Virginia Partners of the Americas (Virginia:Santa Catarina
Partnership) (1985-1987)

Veterans Administration Merit Review Board (1984-1987)

Medical School Representative on University-Wide Self Study Committee on Research
(1984-1985)

University Faculty Forum on Scientific Research (1981-1985)

Annie Lipscomb Lecture (1985)

Association of American Physicians (1987)

Member of the Technical Advisory Group. Applied Diarrheal Diseases Research Project,
Harvard Institute of International Health.

Chair, Advisory Committee for students seeking Internships in Medicine (1986-1994)

Electives Committee (member 1986-1996)

Department of Medicine Research Day (Chairman 1989-1993)

Member of the Scientific Working Group on Case Management, Diarrheal Disease Control Programme, World Health Organization, Geneva (1987-1989)

Member; NIAID/NIH AIDS Clinical Drug Development Committee (1989-1993)

Member, Board of Directors, Project HOPE (1990)

Member, U.S. Cholera Panel; US-Japan Cooperative Medical Science Program (1987-2002)

Chair, U.S. Cholera Panel of the US-Japan Cooperative Medical Science Program of the NIH (1991- 2000)

Member, NIH AIDS and Related Research Study Section 5 (1993 1997)

Recipient Joseph E. Smadel Medal and Lecture, IDSA (1993)

Professor Honoris Causa bestowed by Federal University of Ceará (January 1994)

Board of Trustees of the Child Health Foundation (1995)

American Clinical and Climatological Association (1995)

Listed in Best Doctors in America (1995—2011)

President-elect, American Society of Tropical Medicine and Hygiene (1996-1997)

Recipient of the Abbott Award, Infectious Diseases Society of America (1997)

Recipient of the University-wide Henderson Inventor of the Year Award (1997)

President, ASTMH (1997-1998)

Recipient of the Emilio Ribas Medal for International Category of the Brazilian Society of Infectious Diseases (1997)

Chair, International Affairs Committee of the Infectious Diseases Society of America (1998–2000)

IDSA Nominating Committee (1998–2001 and 2010-2014)

Elected to Institute of Medicine (National Academy of Medicine) of the National Academy of Sciences (2003)

Member, IOM Board on Global Health (2005)

Named ambassador in the Paul Rogers Society for Global Health Research, as one of the society's founding 25 ambassadors (2007)

Recipient of the Walter Reed Medal of the American Society of Tropical Medicine and Hygiene (2008)

Chair, IG02 (Global Health, Infectious Diseases, Microbiology Interest Group of the Institute of Medicine (2008-2010)

Recipient of the Mentor Award of the Infectious Diseases Society of America (2009)

Recipient of the Distinguished Scientist of the Year Award, UVa (2009)

Chair, IOM Board on Global Health (2008-2013) after Peggy Hamburg & Dean Jamison.

Recipient of the Thomas Jefferson Award, University of Virginia (2010)

Awarded the Governor's Outstanding Scientist of Virginia (2012)

Recipient of the 2014 Maxwell Finland Award for Scientific Achievement from the National Foundation for Infectious Diseases (March 4, 2014)

Member of the IOM (National Academy of Medicine) Forum on Public-Private Partnerships for Global Health and Safety. (2014-2018)

Ph.D. – Doctor of Philosophy in Public Health (Honorary), University of Venda, Limpopo, South Africa. 21 September 2018.

EDITORIAL APPOINTMENTS

Editorial Board, Annals of Internal Medicine (1981-1984)

Editorial Board, Infect Immun (1984-1986)

Editorial Board, Reviews of Infectious Diseases (1989-1992)

Editorial Board, Journal of Infectious Diseases (1992-Present)

Editorial Board, Biomedical Journal (1994-Present)

Editorial Board, Emerging Infectious Diseases (1998-2001)

PATENTS

RG-01 Guerrant RL Lima AAM. Use of Phospholipase Inhibitors in the treatment of *Clostridium difficile* Diarrhea. U.S. patent number 4,820,714, issued 1989. 11 April 1989

- BM Marshall BJ, Guerrant RL. Composition and Methods for the Enrichment and Isolation of *Campylobacter pylori* and Related Organisms from Biological Specimens and the Environment. U.S. patent number 4,923,801, issued 1990
- RG-02 Guerrant RL, Lee AG, Cooper WH. *In vitro* Test for Fecal Leukocytes. U.S. patent number 5,124,252, issued 23 June 1992
- RG-04 Guerrant RL, Fang G, Fonteles MC. Method of treating *Clostridium difficile* and Cholera Diarrhea. U.S. patent number 5,436,239, issued 25 July 1995
- RG-06 Guerrant RL, Macdonald TI, Lima AAM, Thielman NM, Miller TA. Stable Glutamine Derivatives for Oral and Intravenous Rehydration and Nutrition Therapy. U.S. Patent Number 5,561,111, issued 01 October 1996
- RG-09 Guerrant RL, Timko MP. Biological production of stable glutamine, poly-glutamine derivative in transgenic organisms and their use for therapeutic purposes. U.S. patent number 6,649,746, issued 18 November 2003
- RG-10 Boone JH, Lylerly DM, Wilkins TD, Guerrant RL. Method for diagnosing irritable bowel syndrome and monitoring inflammatory bowel disease. U.S. patent number 7,892,762, issued 22 February 2011
- RG-11 Guerrant RL, Hoffman PM. Broad Spectrum Benzothiazopene-Nitrothiazolidine and Other Antimicrobials. US Patent Application Serial No. 13/257,707, National Stage of PCT/US/2010/027397, filed March 16, 2010
- RG-12 Timko MP, Klaenhammer TR, Kolling GL, Guerrant RL. Compositions and methods for the delivery of therapeutic peptides. European Patent Office, Application No./Patent No. 11722973.2-1212 09 Filed 19 May 2011, January 2013. Rlgnb77

BOOKS:

1. Guerrant RL, Editor. Microbial Toxins and Diarrheal Diseases. CIBA Foundation Symposium 112, Pittman, London 1988
2. Guerrant RL, Editor. Diarrheal Diseases. Bailliere's Clinical Tropical Medicine and Communicable Diseases. Bailliere Tindall, London 1988
3. Marshall BJ, McCallum RW and Guerrant RL. Helicobacter pylori in peptic ulceration and gastritis. Blackwell Scientific Publications. Boston. 1991.
4. Blaser MT, Smith PD, Ravdin JI, Greenberg HB and Guerrant RL, Editors. Infections of the Gastrointestinal Tract. Raven Press, 1995
5. Guerrant RL, Nations MK, de Souza MA, Editors. At the Edge of Development: Health Crisis in a Transitional Society, Carolina Academic Press, 1996
6. Guerrant RL, Walker DH and Weller PF, Editors. Tropical Infectious Diseases: Principles, Pathogens, & Practice, Vols. 1 and 2, Churchill Livingstone, Philadelphia, 1999

7. Guerrant RL, Walker DH and Weller PF, Editors. Essentials of Tropical Infectious Diseases, Churchill Livingstone, Philadelphia, 2001 (published in English and in Spanish)
8. Guerrant RL, Walker DH and Weller PF, Editors. Tropical Infectious Diseases: Principles, Pathogens, & Practice, Second Edition; Vols. 1 and 2, Churchill Livingstone, Philadelphia, 2006
9. Guerrant RL, Walker DH and Weller PF, Editors. Tropical Infectious Diseases: Principles, Pathogens, & Practice, Third Edition; Elsevier, London, 2011
10. Guerrant RL. Evolution of Evolution: The Survival Value of Caring. 125 pp. ISBN (10): 1-5275-1452-8. Cambridge Scholars Publishing, Newcastle upon Tyne, UK. October 2018.
11. Guerrant RL. Why Care? ...and How? 148 pp. ISBN: 979-8-7861-0583-5. 2021.
12. Guerrant RL. "Family Stories." 102 pp. ISBN 979-8-7977-0353-2. 2022.
13. Guerrant RL. "Notes from a Diarrhea Doc." 140 pp. ISBN 979-8-8377-1772-7. 2022; with separately published "Appendices for Notes from a Diarrhea Doc." 2022.

SCIENTIFIC PUBLICATIONS

1. Langman J, Guerrant RL and Freeman BG. Behavior of neuroepithelial cells during closure of the neural tube. J Comp Neurol 127:399-412, 1966.
2. Guerrant RL, Chen LC and Sharp GWG. Intestinal adenylyl-cyclase activity in canine cholera: Correlation with fluid accumulation. J Infect Dis 125:377-381, 1972.
3. Guerrant RL, Chen LC and Rohde JE. Effect of spironolactone on stool electrolyte losses during human cholera. Gut 13:197-200, 1972.
4. Pierce NF, Guerrant RL, Wallace CK and Carpenter CCJ. Recent observations on the pathophysiologic effects of *E. coli* enterotoxin. In: Symposium on Cholera. Fukumi H and Ohashi M, Editors. U.S.-Japan Cooperative Medical Science Program, Tokyo, 1972.
5. Carpenter CCJ and Guerrant RL. Current understanding of the mechanisms of action of *V. cholerae* and *E. coli* enterotoxins. In: Symposium on Cholera. Fukumi H and Ohashi M, Editors. U.S.-Japan Cooperative Medical Science Program, Tokyo, 1972.
6. Guerrant RL and Cash RA. Infectious disease: Treatment of cholera and other diarrheal illnesses. In: Disaster in Bangladesh: Health Crisis in a Developing Nation, Chapter 7. Chen LC, Editor. Oxford University Press, 1973.
7. Singh JG, Starobin OE, Guerrant RL and Manders EK. Reversible atrioventricular block in myxedema. Chest 63:582-585, 1973.

8. Guerrant RL, Ganguly U, Casper AGT, Moore EJ, Pierce NF and Carpenter CCJ. Effect of *Escherichia coli* on fluid transport across canine small bowel: Mechanism and time-course with enterotoxin and whole bacterial cells. J Clin Invest 52:1707-1714, 1973.
9. Guerrant RL, Carpenter CCJ and Pierce NF. Experimental *E. coli* diarrhea: Effects of viable bacteria and enterotoxin. Trans Assoc Am Phys 86:111-120, 1973.
10. Chen LC, Guerrant RL, Rohde JE and Casper AGT. Effect of amphotericin B on sodium and water movement across normal and cholera toxin-challenged canine jejunum. Gastroenterology 65:252-258, 1973.
11. Hewlett EL, Guerrant RL, Evans DJ Jr and Greenough III, WB. Toxins of *Vibrio cholerae* and *Escherichia coli* stimulate adenyl cyclase in rat fat cells. Nature 249:371-373, 1974.
12. Guerrant RL, Brunton LL, Schnaitman TC, Rebhun LI and Gilman AG. Cyclic adenosine monophosphate and alteration of Chinese hamster ovary cell morphology: A rapid, sensitive, in vitro assay for the enterotoxins of *Vibrio cholerae* and *Escherichia coli*. Infect Immun 10:320-327, 1974.
13. Guerrant RL. Characterization and clinical use of the Chinese hamster ovary (CHO) cell assay for enterotoxins and antitoxins. In: Symposium on Cholera. Fukumi H and Ohashi M, Editors. U.S.-Japan Cooperative Medical Science Program, Kyoto, 1974.
14. Guerrant RL and Carpenter CCJ. Diarrheagenic effect of volume expansion: Intestinal fluid secretion without mucosal adenyl cyclase stimulation. Johns Hopkins Med J 136:209-211, 1975.
15. Guerrant RL, Moore RA, Kirschenfeld PM and Sande MA. Role of toxigenic and invasive bacteria in acute diarrhea of childhood. N Engl J Med 293:567-573, 1975.
16. Hook EW and Guerrant RL. Antimicrobial therapy of bacterial endocarditis. In: Infective Endocarditis, Chapter 12. Kaye D, Editor. University Park Press, Philadelphia, 1976.
17. Korzeniowski OM, Moore RA and Guerrant RL. Diarreia com desidratacao nas criancas examinadas no Hospital Infantil em Florianopolis SC: Etiologias potenciais e implacacoes para terapia. Arz Cat Med 5:5-8, 1976.
18. Yousten AA and Guerrant RL. Comparative activities of *Bacillus thuringiensis* endotoxin, cholera toxin and *Escherichia coli* enterotoxin. J Invest Pathol 28:395-397, 1976.
19. Guerrant RL, Humphries MK Jr, Butler JE and Jackson RS. Tick-borne oculoglandular tularemia: Case report and review of tick-associated tularemia in Virginia. Arch Intern Med 136(7):811-813, 1976.
20. Strausbaugh LJ, Bolton WK, Dilworth JA, Guerrant RL and Sande MA. Comparative pharmacology of josamycin and erythromycin stearate. Antimicrob Agents Chemother 10:450-456, 1976.
21. Guerrant RL, Dickens MD, Wenzel RP and Kapikian AZ. Toxigenic bacterial diarrhea: Nursery outbreak involving multiple bacterial strains. J Pediatr 89:885-891, 1976.

22. Hook EW and Guerrant RL. Salmonella infections. In: Harrison's Principles of Internal Medicine, 8th Edition, pp 839-847. McGraw-Hill Book Company, New York, 1976.
23. Guerrant RL and Brunton LL. Characterization of the Chinese hamster ovary cell assay for the enterotoxins of *Vibrio cholerae* and *Escherichia coli* and for antitoxins: Differential inhibition by gangliosides, specific antisera and toxoid. J Infect Dis 135:720-728, 1977.
24. Guerrant RL, Strausbaugh LJ, Wenzel RP, Hamory BH and Sande MA. Nosocomial bloodstream infections caused by gentamicin-resistant gram negative bacilli. Am J Med 62:894-901, 1977.
25. Nozawa RT and Guerrant RL. Fibrin adherent CHO cell behavior in response to chelators and enterotoxin. Exper Cell Res 107:25-30, 1977.
26. Rosenberg ML, Koplán JP, Wachsmuth IK, Wells JG, Gangarosa EJ, Guerrant RL and Sack DA. Epidemic diarrhea at Crater Lake: A large, waterborne outbreak caused by enterotoxigenic *Escherichia coli*. Ann Intern Med 86:714-718, 1977.
27. Guerrant RL. The microbial diarrheas. In: Current Concepts of Infectious Diseases. Hook E, Mandell G, Gwaltney J and Sande, M, Editors. John Wiley and Sons, Inc., New York, 1977.
28. Pestana de Castro AF, Serafim MB, Rangel HA and Guerrant RL. Swiss and inbred mice in the infant mouse test for the assay of *Escherichia coli* thermostable enterotoxin. Infect Immun 22:972-974, 1978.
29. Bergman MJ, Guerrant RL, Murad F, Richardson SH, Weaver D and Mandell G. Interaction of polymorphonuclear neutrophils with *Escherichia coli*: Effect of enterotoxin on phagocytosis, killing and chemotaxis and cyclic AMP. J Clin Invest 61:227-234, 1978.
30. Guerrant RL. Enteric infections. VA Med Monthly 105:443-445, 1978.
31. Hughes JM, Murad F, Chang B and Guerrant RL. Role of cyclic GMP in the action of heat-stable enterotoxin of *Escherichia coli*. Nature 271:755-756, 1978.
32. Bergman MJ, Evans DG, Mandell GL, Sullivan JA, Salit IE and Guerrant RL. Attachment of *E. coli* to human intestinal epithelial cells: A functional, *in vitro* test for intestinal colonization factor. Trans Assoc Amer Phys 91:80-89, 1978.
33. Guerrant RL, Lahita RG, Winn WC and Roberts RB. Campylobacteriosis in man: Pathogenic mechanisms and review of 91 bloodstream infections. Am J Med 65:584-592, 1978.
34. Guerrant RL, Hughes JM. Doxycycline for travelers' diarrhea: risks and benefits. N Engl J Med. 1978 Dec 21;299(25):1412-3. PubMed PMID: 362208.
35. Guerrant RL. Infectious gastrointestinal syndromes. In: Principles and Practice of Infectious Diseases, Chapter 70. Mandell GL, Douglas RG Jr and Bennett JE, Editors. John Wiley and Sons, Inc., New York, 1979.

36. Guerrant RL and Hughes JM. Nausea, vomiting, and noninflammatory diarrhea. In: Principles and Practice of Infectious Diseases, Chapter 71. Mandell GL, Douglas RG Jr and Bennett JE, Editors. John Wiley and Sons, Inc., New York, 1979.
37. Guerrant RL. Inflammatory enterides. In: Principles and Practice of Infectious Diseases, Chapter 72. Mandell GL, Douglas RD Jr and Bennett JE, Editors. John Wiley and Sons, Inc., New York, 1979.
38. Hughes JM and Guerrant RL. Systemic syndromes complicating gastrointestinal infections. In: Principles and Practice of Infectious Diseases, Chapter 73. Mandell GL, Douglas RG Jr and Bennett JE, Editors. John Wiley and Sons, Inc., New York, 1979.
39. Korzeniowski OM, Barada FA, Rouse JD and Guerrant RL. Value of examination for fecal leukocytes in the early diagnosis of shigellosis. Am J Trop Med Hyg 28:1031-1035, 1979.
40. Klipstein FA, Guerrant RL, Wells JG, Short HB and Engert RF. Comparison of assay of coliform enterotoxins by conventional techniques versus in vivo intestinal perfusion. Infect Immun 25:146-152, 1979.
41. Guerrant RL and Bergman MJ. Attachment factors among enterotoxigenic *E. coli*. In: Frontiers of Knowledge in the Diarrheal Diseases. Janowitz HD and Sachar, DB, Editors. First International Colloquim in Gastroenterology, London, 1979.
42. Hughes JM, Rouse JD, Barada FA and Guerrant RL. Etiology of summer diarrhea among the Navajo. Am J Trop Med Hyg 29:613-619, 1980.
43. Ravdin JI and Guerrant RL. Studies on the cytopathogenicity of *Entamoeba histolytica*. Arch Invest Med (Mex) II (Suppl 1): 123-128, 1980.
44. Guerrant RL and Ravdin JI. A case of antibiotic-induced pseudomembranous colitis prior to vancomycin. Bac-Data Perspective on Infection 4:1-4, 1980.
45. Guerrant RL. Yet another pathogenic mechanism for *E. coli* diarrhea? N Engl J Med 302:113-114, 1980.
46. Guerrant RL, Rouse JD and Hughes JM. Turista among members of the Yale Glee Club in Latin America. Am J Trop Med Hyg 29:895-900, 1980.
47. Barada FA and Guerrant RL. Sulfamethoxazole-trimethoprim versus ampicillin in treatment of acute invasive diarrhea in adults. Antimicrob Agents Chemother 17:961-964, 1980.
48. Guerrant RL, Hughes JM, Chang B, Robertson DC and Murad F. Activation of intestinal guanylate cyclase by heat-stable enterotoxin of *Escherichia coli*: Studies of tissue specificity, potential receptors and intermediates. J Infect Dis 142:220-228, 1980.
49. Ravdin JI, Croft BY and Guerrant RL. Cytopathogenic mechanisms of *Entamoeba histolytica*. J Exp Med 152:377-390, 1980.
50. Greenberg RN, Murad F, Chang B and Guerrant RL. Inhibition of *Escherichia coli* heat-stable enterotoxin by indomethacin and chlorpromazine. Infect Immun 29:908-913, 1980.

51. Hughes JM and Guerrant RL. Gastrointestinal infections. In: Handbook of Hospital Acquired Infections, pp 539-562. Wenzel RP, Editor. CRC Press, Inc., Florida, 1981.
52. McLean M, Brennan R, Hughes JM, Korzeniowski OM, de Souza MA, Araujo JG, Benevides T and Guerrant RL. Etiology and oral rehydration therapy of childhood diarrhea in northeastern Brazil. Bull PAHO 15:318-326, 1981.
53. Greenberg RN and Guerrant RL. *E. coli* heat-stable enterotoxin. *Pharmacol Ther* 13:507-531, 1981.
54. Spyker DA and Guerrant RL. Dosage nomograms for aminoglycoside antibiotics. *Hospital Formulary* 16:132-139, 1981.
55. Ravdin JI and Guerrant RL. Food poisoning. In: *Current Therapy*. Conn H, Editor. W.B. Saunders Co., Pennsylvania, 1981.
56. Guerrant RL, Wood SJ, Krongaard L, Reid RA and Hodge RH. Resistance among fecal flora of patients taking sulfamethoxazole-trimethoprim or trimethoprim alone. *Antimicrob Agents Chemother* 19:33-38, 1981.
57. Guerrant RL, Brush J, Ravdin JI, Sullivan JA and Mandell GL. Interaction between *Entamoeba histolytica* and human polymorphonuclear leukocytes. *J Infect Dis* 143:83-93, 1981.
58. Ellis AR, Mayers DL, Martone WJ, Mitchell BL, Atuk NO and Guerrant RL. Rapidly expanding pulmonary nodule caused by pittsburgh pneumonia agent. *JAMA* 245:1558-1559, 1981.
59. Kossack RE, Guerrant RL, Densen P, Schadelin J and Mandell GL. Diminished neutrophil oxidative metabolism following phagocytosis of virulent *Salmonella typhi*. *Infect Immun* 31:674-678, 1981.
60. Guerrant RL and Sauer KT. Selective use of microbiological tools in identification of etiologic agents of diarrhea illnesses. *Journal of Food Safety* 3:145-164, 1981.
61. Bergman MJ, Updike WS, Wood SJ, Brown III SE and Guerrant RL. Attachment factors among enterotoxigenic *Escherichia coli* from patients with acute diarrhea from diverse geographic areas. *Infect Immun* 32:881-888, 1981.
62. Shields DS, Nations-Shields M, Hook EW, Araujo JG, de Souza MA and Guerrant RL. Electrolyte/glucose concentration and bacterial contamination in home-prepared oral rehydration solution: A field experience in northeastern Brazil. *J Pediatr* 98:839-841, 1981.
63. Ravdin JI and Guerrant RL. Role of adherence in cytopathogenic mechanisms of *Entamoeba histolytica*. Study with mammalian tissue culture cells and human red blood cells. *J Clin Invest* 68:1305-1313, 1981.
64. Greenberg RN, Murad F and Guerrant RL. Lanthanum chloride inhibition of the secretory response to *E. coli* heat-stable enterotoxin. *Infect Immun* 35:483-88, 1982.

65. Greenberg RN, Pearson RD, Innes DJ, Sauer KT, Halterman LD and Guerrant RL. Susceptibility of *Shigella* to erythromycin. Antimicrob Agents Chemother 21:347-348, 1982.
66. Ravdin JI and Guerrant RL. Separation of adherence, cytolytic, and phagocytic events in the cytopathogenic mechanisms of *Entamoeba histolytica*. Arch Invest Med (Mex) 13(3):123-128, 1982.
67. Greenberg RN, Guerrant RL, Chang B, Robertson DC and Murad F. Inhibition of *Escherichia coli* heat-stable enterotoxin effects on intestinal guanylate cyclase and fluid secretion by quinacrine. Biochem Pharmacol 31:2005-2009, 1982.
68. Ravdin JI and Guerrant RL. A review of the parasite cellular mechanisms involved in the pathogenesis of amebiasis. Rev Infect Dis 4:1185-1207, 1982.
69. Haley CE and Guerrant RL. Institutional salmonellosis. Asepsis 4:7-12, 1982.
70. Brown SE III, Sauer KT, Nations-Shields M, Shields DS, Araujo JG and Guerrant RL. Comparison of paired whole milk and dried filter paper samples for anti-enterotoxin and anti-rotavirus activities. J Clin Microbiol 16(1):103-106, 1982.
71. Ravdin JI, Sperelakis N and Guerrant RL. Effect of ion channel inhibitors on the cytopathogenicity of *Entamoeba histolytica*. J Infect Dis 146:335-340, 1982.
72. Guerrant RL and Ravdin JI. Infections caused by *Vibrio* and *Campylobacter*: *Campylobacter* infections. In: Internal Medicine: A Systematic Approach, pp 1370-1371. Stein J, Sande MA et al., Editors. Little, Brown and Company, Boston, 1983.
73. Ravdin JI and Guerrant RL. Rotaviruses. In: Internal Medicine: A Systematic Approach, pp 1288-1289. Stein J, Sande MA, et al., Editors. Little, Brown, and Company, Boston, 1983.
74. Ravdin JI and Guerrant RL. Norwalk agent. In: Internal Medicine: A Systematic Approach, pp 1302-1303. Stein J, Sande MA, et al., Editors. Little, Brown and Company, Boston, 1983.
75. Ravdin JI and Guerrant RL. Infections caused by *Vibrio* and *Campylobacter*: *Vibrio cholerae*. In: Internal Medicine: A Systematic Approach, pp 1367-1369. Stein J, Sande MA, et al., Editors. Little Brown and Company, Boston, 1983.
76. Ravdin JI and Guerrant RL. Infections caused by *Vibrio* and *Campylobacter*: *Vibrio parahemolyticus* and other pathogenic vibrios. In: Internal Medicine: A Systematic Approach, pp 1369-1370. Stein J, Sande MA, et al., Editors. Little, Brown and Company, Boston, 1983.
77. Guerrant RL and Greenberg RN. Approach to gastrointestinal infections. In: Internal Medicine: A Systematic Approach. Stein J, Sande MA et al., Editors. Little, Brown and Company, Boston, 1983.

78. Marcey SM and Guerrant RL. Microorganisms responsible for neonatal diarrhea. In: Infectious Diseases of the Fetus and Newborn Infants, Chapter 27. Remington JS and Klein JO, Editors. W.B. Saunders Co., Philadelphia, 1983.
79. Guerrant RL. Pathophysiology of the enterotoxic and viral diarrheas. In: Diarrhea and Malnutrition: Interactions, Mechanisms, and Interventions, Chapter 2. Chen LC and Scrimshaw NS, Editors. Plenum Press, New York, 1983.
80. Guerrant RL and Hook EW. Salmonella infections. In: Harrison's Principles of Internal Medicine. Petersdorf RG, Adams RD, Braunwald E, Isselbacher KJ, Martin JB and Wilson D, Editors. McGraw Hill Inc., New York, 1983.
81. Ravdin JI and Guerrant RL. Infectious diarrhea in the elderly. Geriatrics 38:95-101, 1983.
82. Hill DR, Guerrant RL, Pearson RD and Hewlett EL. *Giardia lamblia* infection of suckling mice. J Infect Dis 147:217-221. 1983.
83. Hewlett EL, Sauer KT, Myers GA, Cowell JL and Guerrant RL. Induction of a novel morphologic response in Chinese hamster ovary cells by pertussis toxin. Infect Immun 40:1198-1203, 1983.
84. Greenberg RN, Dunn JA and Guerrant RL. Reduction of the secretory response to *Escherichia coli* heat stable enterotoxin (ST) by thiol and disulfide compounds. Infect Immun 41:174-180, 1983.
85. Pearson RD and Guerrant RL. Praziquantel: a major advance in anthelmintic therapy. Ann Int Med 99:195-198, 1983.
86. Guerrant RL, Kirchhoff LV, Shields DS, Nations MK, Leslie J, de Souza MA, Araujo JG, Correia LL, Tiemens KM, McClelland KE, Trowbridge FL and Hughes JM. Prospective study of diarrheal illnesses in northeastern Brazil: patterns of disease, nutritional impact, etiologies and risk factors. J Infect Dis 148:986-997, 1983.
87. Guerrant RL and Ravdin JI. *Giardia lamblia* and *Entamoeba histolytica*. In: Sexually Transmitted Diseases, Chapter 50. Holmes, Mardh, Sparling and Wiesner, Editors. McGraw-Hill Book Co., 1984.
88. Guerrant RL. *E. coli* and related enteric pathogens. In: Tropical and Geographic Medicine. Warren KS and Mahmoud AF, Editors. 1984.
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11. Wheby MS. Oral Rehydration Therapy in Cholera. CID 2014:59 (1 December 2014) 1654-1655

MEETING PRESENTATIONS & INVITED LECTURES:

1. Written up in Conde, Nast Traveler, Jan, 1994.
2. Guerrant RL. "Raspberries, hamburger and Milwaukee Water: The Tropics Come to Town. University of Virginia Associates Program Lecture Series. Richmond, Norfolk, Fairfax, Fall 1996.
3. Written up in Style Weekly, Oct. 22, 1996.
4. Featured in Globo/Sat/IDEA Television "Ciencia" "Tropical Diseases" 1997.
5. Guerrant RL. Health, Dignity and Population Control: The Danger of Malthusian Thinking" Summer on the Lawn (Global 2000: America's International Role in the 21st Century) 1997.
6. Guerrant RL. Congressional testimony before House Appropriations Committee for tropical medicine research April 15, 1997.
7. Guerrant RL. Congressional testimony before House Foreign Affairs Committee for tropical medicine research April 24, 1997.
8. ASTMH Presidential Address; Orlando FL 1997.
9. Parlange M. Parasites in the Pipes (reference to crypto work, p. 361). BioScience 49(5):360—364,1999.
10. National ACP meeting, Food Poisoning.
11. April 27, 1999, NIH ICTDR meeting Long-term Impact & Intestinal Mal-Function from Persistent Diarrhea.
12. July 29, 1999, Military Medicine Courses USUHS Bethesda, Diarrheal Diseases.
13. September 17, 1999, NIH Micro Nutrients Meeting Role of Vitamin A in Intestinal Absorptive Function and meeting summary.
14. October 27, 1999, U Washington, Settle. Emerging Enteric Protozoa.
15. April 11, 2000, NIH-ICTDR presentation on Impact of Childhood Diarrhea
16. April 24, 2000, Meharry Medical symposium. "Careers in Global Health.
17. May 19, 2000, UCLA Grand rounds on Enteric Infections.
18. July 18, 2000, Military Medicine Course; USUHS, Bethesda; Approach to enteric infections."

19. September 9, 2000, IDSA, N. Orleans. "Traveler's Diarrhea."
20. September 30, 2000, Hefei China. Magnitude of diarrheal diseases.
21. October 2, 2000, Manila, Philippines Makati Symposium. Magnitude of diarrheal diseases."
22. October 18, 2001, Mexico City; magnitude and Impact of Infectious Diarrhea
23. October 31, 2000, ASTMH Nat'l meeting, Houston. "ORT: The most important advance and the greatest indictment of 20th Century Medicine." September 19, 2000, Oxford Krebs Symposium: "Role of glutamine in intestinal injury repair".
24. February 25, 2001; IDSA/Stanford ID Course: "Discovering the Unacceptable Costs of the Diseases of Poverty: The most important medical advance or our new century."
25. March 2, 2001; IDSA/Stanford Course: "National Guidelines to Diagnosis and Management of Diarrheal Diseases."
26. March 10 2001, NIH TMRC Meeting in Bahia Brazil; "Increasing morbidity from diarrheal diseases, despite decreasing mortality."
27. April 30, 2001; IDSA Meeting on Novel Diagnostics (organized by DA Relman), Orlando. "Diagnosis of Diarrheal Diseases: Impact of New Methods.
28. May 7, 2001, NIH/ICTDR meetings, Bethesda; "New diagnostics amidst increasing morbidity."
29. June 7, 2001, Meridian International Center, US State Dept. National Intelligence Council, Washington, DC. "Global Health as a Compass for US Foreign Policy; The Unacceptable Costs of the Diseases of Poverty."
30. May 16-18, 2001. Pfizer Visiting Professor for 2001; Univ of Utah, SLC.
31. September 19, 2001, IOM paper at IOM workshop on Linking infectious agents and chronic conditions (electronic meeting since DC mtg cancelled wk after 9/11) "Potential Long-term consequences of early childhood enteric and parasitic infections."
32. October 19, 2001. "Magnitude and impact of diarrheal diseases," guest speaker at 450th Anniversary of UNAM, Mexico City.
33. Guerrant RL. The Greatest Advance and the Greatest Indictment of 20th Century Medicine: ORT for Cholera. History of the Health Sciences Lecture Series, November 29, 2001
34. April 8, 2002. "Diagnosis and Management of Infectious Diarrhea." Case Western Reserve University Infectious Diseases Course.
35. April 11, 12, 2002. Wesley Spink Lecturer and Grand Rounds speaker, University of Minnesota, Minneapolis, MN.
36. March – November, 2002; Multiple meetings at Institute of Medicine, National Academy of Sciences in Washington and Woods Hole on the Committee on Review of the Use of Scientific Criteria and Performance Standards for Safe Food, with Dr. Ricardo Molins.

37. September 19, 20, 2002. Dascomb Lecturer and Grand Rounds speaker, LSU, New Orleans, LA.
38. September 26, 27, 2002. Fall Convocation Speaker, University of Virginia at Wise.
39. October 21-22, 2002. Speaker on “Long-term Developmental Impact of Early Childhood Diarrheal Diseases” at Institute of Medicine Conference on “Linking Infectious Agents and Chronic Conditions,” Washington, DC.
40. October 26, 2002. “Rapid Diagnostics in Diarrheal Diseases,” IDSA Symposium, Chicago IL.
41. November 21, 22, 2002. Medical Grand Rounds and Research Conference as Visiting Professor, University of Iowa, Iowa City.
42. December 19, 2002. “Early Childhood Diarrhea at 0-2 years old is Associated with Impaired Executive Cognitive Functioning (Verbal Fluency) at 6-12 years old.” US-Japan Cholera and Related Diarrheal Diseases Conference, Okinawa, Japan.
43. Plus numerous local lectures at meetings of Committee on Foreign Affairs, Cholera History, Global Ethics, Retired Faculty Club, International Residential College, et al.
44. Guerrant RL. The Unacceptable Costs of the Diseases of Poverty: Magnitude and Impact of Infectious Diarrhea. University of Witwatersrand, Johannesburg, South Africa. November 18, 2003.
45. Guerrant RL. Detection of Fecal Inflammation and Water Contamination, New *C. difficile* Therapy, and Development of a Novel, Glutamine-based ORNT. UVa-VT-Carilion CBI Program. Roanoke VA. April 21, 2004.
46. Pinkerton, Relana; Anita Kohli, Reinaldo Oria, Alberto Soares, Oluma Bushen, Aldo A.M Lima, Richard L. Guerrant. Early infection with *Giardia lamblia* predicts further growth faltering in Brazilian shantytown children. University of Virginia, Charlottesville, VA, United States ASTMH November 2004.
47. Amoah-Dankwa J., Raul V.Destura and Oluma Y.Bushen, Leah J.Barrett, Richard L.Guerrant. Effects of zinc on migration of injured IEC-6 cells. ICTDR Meeting, Bethesda MD, May 2004.
48. Destura,R.V.; Brito GAC; Amoah-Dankwa,J.; Bushen,O.Y.; Guerrant RL. Effect of Arginine and Glutamine on Intestinal Epithelial Cell Injury Repair. ICTDR Meeting, Bethesda MD, May 2004.
49. Dillingham R, Leite R, Lima AAM, Bushen OY, Ziermann R, Kashuba A, Guerrant RL. Diarrhea, Malabsorption and Antiretroviral (ARV) Resistance in Patients Infected with Human Immunodeficiency Virus (HIV) in Northeastern Brazil, IDSA Boston October 2004.
50. Bushen, OY Kohli A, Pinkerton RC, Lima AAM, Houpt E, Destura,RV, Guerrant RL. Symptomatic Children Shed More Cryptosporidial Oocysts than Asymptomatic Children IDSA Boston October 2004.
51. Oriá RB, Lopes MB, Hussaini I, Shi W, Brito GAC, Vieira CMG, Pamplona P, Lima AAM, Guerrant RL APOE4 knock-out Mice Have Impaired Intestinal Adaptation Responses to Re-

Feeding After Being Challenged by Undernutrition. ASTMH Miami November 2004 Late Breaker.

52. Guerrant RL, Oria R, Patrick P, Lima AAM. The “Alzheimer’s gene” APOE4 May have Evolved Because it Protects the Cognitive Development of Children Experiencing Heavy Burdens of Diarrhea US-Japan Cooperative Medical Science Program-Kyoto, Japan December, 2004.
53. Guerrant RL. The “Alzheimer’s gene” Apo-E4 may have evolved because it protects the cognitive development of children experiencing heavy burdens of diarrhea. 2005 Natal Brazil. March 1-3, 2005.
54. Guerrant RL. Model for a Network of Trans-University Centers for Global Health. University Consortium for Global Health. Global Health Initiative at Boston University. April 26, 2005.
55. Guerrant RL. A Guide to New Intestinal Parasites⁹th Conference of the International Society of Travel Medicine (CISTM9). SY03 Parasitic Diseases of Importance to Travelers. Lisbon, Portugal. May 2, 2005.
56. Guerrant RL. Assessing the Impact of Cryptosporidial Infections East Coast Conference on Protozoology. MCV Campus of VCU; Sanger Hall. Richmond, VA. June 3, 2005.
57. Guerrant RL. Have a Dream: To Ameliorate the Diseases of Poverty. Danone Executive Meeting, Evian, France. September 24, 2005.
58. Guerrant RL. Global Magnitude of Waterborne Enteric Diseases. “Upstream” Strategies for the Prevention of Waterborne Diseases. IDSA, San Francisco. October 7, 2005.
59. Guerrant RL. Diarrhea, genetics, growth and cognition: What’s the connection? Pediatric Grand Rounds. Vanderbilt University. Nashville TN, December 20, 2005.
60. Guerrant RL. Diarrhea, Development, Cognition and Genes: Long-term Impact and Interventions. One World Health, Washington DC. July 16, 2007.
61. Guerrant RL. The Global Burden of Diarrhoeal Diseases. 5th European Congress on Tropical Medicine and International Health. Amsterdam, The Netherlands. May 26, 2007.
62. Guerrant RL. Malnutrition is an Enteric Infectious Disease: Devastating, Long-term Effects on Child Development. 2007 Friedman School Symposium. Boston, October 29, 2007.
63. Guerrant RL. Why Global Health? Surviving by Caring: A Declaration of Interdependence. Charles and Martha Sislen Lecture. George Washington University. Washington DC. March 11, 2008.
64. Guerrant RL. Why Global Health? Surviving by Caring: A Declaration of Interdependence. University of Richmond. Human Rights and Health. March 24, 2008.
65. Guerrant RL. Why Global Health? Surviving by Caring: A Declaration of Interdependence. And Water Matters: The “Silent Humanitarian Crisis.” Global Health Career Day. University of Pennsylvania, Philadelphia. March 29, 2008.

66. Guerrant RL. Malnutrition is an Enteric Infectious Disease: Devastating, Long-term Effects on Child Development. Pediatrics Grand Rounds. Washington University, St Louis. April 18, 2008.
67. Guerrant RL. Why Global Health? Surviving by Caring: A Declaration of Interdependence. 10th Annual Forum on International Health and Tropical Medicine. Washington University, St. Louis. April 19, 2008.
68. Guerrant RL and White MA. U21 Capacity Building with Universities in the Developing World. University College Dublin, Ireland. May 8, 2008.
69. Guerrant RL. Infectious Diarrhea: Impact & Novel Approaches to Control. Medical Grand Rounds. University of Pennsylvania, Philadelphia. September 30, 2008.
70. Guerrant RL. Assessing the Long-term Impact of Early Childhood Diarrhoea and Enteric Infections: Implications for DALYs and Interventions. Diarrhoeal Diseases Delegation. London & Edinburgh. October 6-8, 2008.
71. Guerrant RL. Tribute to Dr. Charles C. J. Carpenter: An incredible continuing mentor. Brown University. Providence RI. October 23, 2008.
72. Guerrant RL. Why Global Health? Surviving by Caring: A Declaration of Interdependence. Global Health Career Day. Pennsylvania State University. January 15, 2009.
73. Guerrant RL. Malnutrition is an Intestinal Infection with Long-term Sequelae (MaIED): New UNIVEN-UVa Global Health CollaborationsUniven-Thohoyandou, South Africa. May 28, 2009.
74. Guerrant RL. Malnutrition is an Intestinal Infection with Long-term Sequelae. KCMC. Moshi, Tanzania. June 4, 2009.
75. Guerrant RL. Malnutrition is an Intestinal Infection with Long-term Sequelae. Makerere/IDI Seminar. Kampala, Uganda. June 5, 2009.
76. Guerrant RL. The legacy of diarrhoeal diseases: Cognitive and developmental impairment in those left behind. Opening Keynote, Vaccines for Enteric Diseases. Malaga, Spain. September 9, 2009.
77. Guerrant RL. Malnutrition is an Enteric Infectious Disease with Long-term Effects on Child Development and Cognition. Harvard Initiative for Global Health. Harvard School of Public Health. September 21, 2009.
78. Guerrant RL. MaIED: Malnutrition is an Enteric Infectious Disease with Long-term Sequelae; Tanzania, South Africa, Brazil and Bangladesh SitesMaIED Pilot Project Meeting. St. Louis. November 17, 2009.
79. Guerrant RL. Effects of enteric diseases on cognitive development. MaIED: A study of the effects of enteric diseases and malnutrition on child growth and development in eight resource poor countries. ASTMH Symposium 168; and Childhood diarrhea, nutrition and gene-environment interactions and cognitive function. Brain Disorders in the Developing World ASTMH Symposium 70; Washington DC. November 20 and 22, 2009.

80. Guerrant RL. Malnutrition is an Enteric Infectious Disease with Long-term Effects on Child Development and Cognition. NIH Grand Rounds. Bethesda, January 8, 2010.
81. Guerrant RL. Global Health Capacity Building and Cooperation: IOM's Current Aspirations and Comparative Advantages. IOM Council Panel. NAS 2100 C St, Washington, DC. January 11, 2010.
82. Guerrant RL. Setting up the challenge: Linkage of infectious disease, nutritional failure, burden of multiple infections and ways to break the cycle. Opening Address in Evaluating probiotics for the prevention and treatment of enteric and diarrheal diseases in children in developing countries. Sofitel St. James, London, U.K. 24-26 January 2010.
83. Guerrant RL. Malnutrition is an Enteric Infectious Disease with Long-term Effects on Child Development and Cognition. V International Symposium in Biomedicine. UFC, Fortaleza, Ceara, Brazil, March 4, 2010.
84. Guerrant RL. Cryptosporidiosis, an Enteric Infection With Long-term Effects on Child Development and Cognition. EID 504 Models of Emerging Infectious Diseases IV. Uniformed Services University for the Health Sciences, Bethesda, March 18, 2010.
85. Guerrant RL. Malnutrition as an Enteric Infectious Disease with Long-term Consequences for Children's Growth and Cognitive Development. Institut Pasteur – Vaccinology Course, Paris, France, March 26, 2010.
86. Guerrant RL. Why Global Health at UVa Wise: A Declaration of Interdependence. Healthy Appalachia Initiative – CGH Symposium. Wise, VA - April 23, 2010.
87. Guerrant RL. Malnutrition as an Enteric Infectious Disease with Long-term Consequences for Children's Growth and Cognitive Development. Nutrition and Global Health. Harvard Medical School, Boston MA. July 7, 2010.
88. Guerrant RL. Malnutrition as an Enteric Infectious Disease with Long-term Consequences for Children's Growth and Cognitive Development. Gorgas Memorial Institute. Panama City, Panama. July 20, 2010.
89. Guerrant RL. Malnutrition as an Enteric Infectious Disease with Long-term Consequences for Children's Growth and Cognitive Development. Cognosci and Duke University. October 15, 2010.
90. Guerrant RL. Malnutrition as an Enteric Infectious Disease with Long-term Effects on Child Development University of British Columbia, Immunity and Infection Research Centre. Vancouver Coastal Health, Vancouver General Hospital, Vancouver Canada. October 20, 2010.
91. Guerrant RL. Up-date on the Relationship between Malnutrition, Diarrhea and Child Development. Improving our understanding of the relationship between nutrition and diarrheal diseases in an effort to improve public health. ASTMH Symposium 124; Atlanta GA 06Nov2010.

92. Guerrant RL and Catarina Krizancic. Opportunities for Initiatives for Faculty & Students: A Declaration of Interdependence. Rural Global Health Symposium: Advancing Health of Rural Populations Around the World School of Nursing--December 8, 2010.
93. Guerrant RL. What is a Healthy Gut? Diarrhea, Malnutrition, Cognition and Gut Integrity. Opening keynote address at Gut Integrity Meeting on Enteric & Diarrheal Diseases, Discovery, Family Health Nutrition Groups. Bill and Melinda Gates Foundation, Seattle, December 14-16, 2010.
94. Guerrant RL. Global Health at UVA: A Declaration of Interdependence! HSF Board of Directors Dinner at Morven Farm, June 16, 2011.
95. Guerrant RL. Chronic consequences of acute enteric infections in the developing world: Physical and cognitive development. Preventable Burden of Enteric Diseases. VED 2011 – Novotel Cannes Montfleury. September 14, 2011
96. Guerrant RL. *Cryptosporidium* infections and Interactions with Malnutrition. Epidemiology of *Cryptosporidium* and global burden. *Cryptosporidium*: Global burden, novel diagnostics and therapeutics and preventive strategies Workshop, December 3-4, 2011 Philadelphia
97. Guerrant RL. Novel Approaches to ORRT (Oral Rehydration and Repair Therapy) Translational Approaches for Pharmacotherapy Development for Acute Diarrhea. NIDDK/NIH Workshop—Pooks Hill Marriott, Bethesda, September 26, 2011
98. Guerrant RL. Potential Impact of Infections on Development: The example of enteric infections, malnutrition and genetics. TMRC; UFRN, Natal, Brazil; February 28, 2012.
99. Guerrant RL. Potential Impact of Infections on Development: The example of enteric infections, malnutrition and genetics. Johns Hopkins University School of Medicine, March 19, 2012
100. Guerrant RL. Novel Metabonomic Biomarkers of Gut Function and Health: Modeling Enteropathy (EE) and Field Validation. Bill and Melinda Gates Foundation Biomarker meeting, London, June 12, 2012.
101. Guerrant RL. Importance of Animal Models of Enteric Infections in the Vicious Cycle with Malnutrition Small Animal Models for Enteric Infections Workshop, NIH, Bethesda, MD. September 13-14, 2012
102. Guerrant RL. Impact of Enteric Infections on Cognitive Development: Field and animal model studies of protection by ApoE4. Old Herborn University Seminar: The Gut Microbiome and the Nervous System, Herborn, Germany. June 21, 2012
103. Guerrant RL. Infectious Diarrhea as a Global Public Health Problem: The Triple Burden of Enteric Infections, Stunted Development and Chronic Disease. Brazilian Society of Tropical Medicine; Rio de Janeiro; September 25, 2012
104. Guerrant RL. Chronic consequences of enteric infections in the developing world: Physical and cognitive development: A *Triple* Burden of Enteric Infections, Stunted Development and Chronic Disease; Dealing with bacterial enteric infections; “Les Pensières” Fondation Mérieux Conference Centre; Veyrier du Lac, France, October 9, 2012.

105. Compassion as a Global Remedy, Panel Participant with Tenzin Gyatso, His Holiness, The 14th Dalai Lama of Tibet, Paramount Theater, Charlottesville, October 11, 2012.
106. Global Health at UVa. Thomas Jefferson Society, Alumni Association Plenary Talk. 15 May 2013.
107. The Triple Burden of Infectious Diseases: Potential Impact of Chronic Disease in Later Life. XVIII Congresso Brasileiro de Infectogia, Fortaleza, CE Brazil. 02 Sept 2013.
108. Assessing the Impact of Early Childhood diarrhea. XVIII Congresso Brasileiro, de Infectogia, Fortaleza, CE Brazil. 02 Sept 2013.
109. Assessing the impact of Enteric Infectious Diseases, UPC Seminar, Fortaleza, CE Brazil. 03 Sept 2013.
110. Epidemiology and Global Burden of Cryptosporidial Infections. Bill and Melinda Gates Foundation, Seattle, WA. 21 Nov 2013.
111. Novel Metabonomic Biomarkers of Gut Function and Health: Modeling Enteropathy and Field Studies. Bill and Melinda Gates Foundation, London, UK 03 Dec 2013.
112. Malnutrition as an Infectious Disease with Long Term Consequences of Stunted Growth and Cognitive Impairment. University of Reading, UK 06 Dec 2013.
113. Novel Therapeutics Models and Immune Interventions for Cryptosporidium, MARCE, Turf Valley, MD. 11 Dec 2013.
114. Institute Inauguration Keynote on Research Collaborations: Hospital Giselda Triqueiro UFRN, Natal, Brazil. 04 Feb 2014.
115. TMRC, Metabonomic Studies of Malnutrition and its Effect in children and in Murine Models. UFRN, Pipa, Brazil. 05 Feb 2014.
116. Lessons about our Brain from Children in Brazil. Keynote Seminar at Frontiers in Neuroscience for Global Health. 10th Anniversary of Brain Disorders in the Developing World. Natcher Auditorium, NIH, Bethesda, MD. 11 Feb 2014.
117. Ferid Murad's Nobel Seminar Series: Science and Medicine: A Priceless Journey: Lessons Between Science and Global Health: A Declaration of Interdependence. George Washington University, Washington, DC. 24 Mar 2014.
118. CETR (NIH Center of Excellence in Translational Research) presentation on EAEC models for vaccine development. 11 Dec 2014.
119. Novel Metabonomic Biomarkers of Gut Function and Health: Modeling Enteropathy (EE) and Field Validation. EEDBI Consortium, London, 28 Jan 2015.
120. Nutrition, Inflammation and Neurodevelopment: Bridging Field and Laboratory Model Studies. Opening keynote at Child Brain Development, Inflammation and Nutrition in low Resource

Settings; NICHD Global Health Consultation Meeting, Natcher Bldg, NIH, Bethesda MD. 11 Feb 2015.

121. Biomarkers and Pathways of Enteropathy. Fortaleza, Ceara, Brazil. 11 March 2015.
122. Biomarkers and Pathways of Inflammatory Enteropathy and Impaired Growth and Cognitive Development. TMRC meetings. Salvador, Bahia, Brazil. 16 March 2015.
123. Roles of Universities in Global Health: Importance, Mutual Benefits and Challenges. Keynote Address at DeVry International Health Symposium, Ross University School of Medicine, Roseau, Commonwealth of Dominica, 4 April 2015.
124. Enteric CETR updates on murine models of EAEC, EHEC, ETEC and Cryptosporidium. 26 May 2015.