

Curriculum Vitae

Jonathan David Kurtis, MD, PhD

Chair, Department of Pathology and Laboratory Medicine
Stanley M. Aronson Professor of Pathology and Laboratory Medicine
Brown University, Warren Alpert Medical School
Director of Laboratories, Center for International Health Research
Director, MD/PhD Program

55 Claverick St, Rm 328
Providence, RI 02903

EDUCATION

Undergraduate	Brown University, BA in Geology/Biology 1989
Medical School	Brown University School of Medicine, MD, 1989-1991 and 1995-1996
Graduate School	Brown University, PhD in Pathobiology, 1991-1995

POSTGRADUATE TRAINING

Postdoctoral Fellowship	Walter Reed Army Institute of Research, Kisumu Kenya field station. Field of study- malaria vaccine development and epidemiology. 1996-1997
Residency	Hospital of the University of Pennsylvania, 3400 Spruce St, Philadelphia, PA 19104. Residency training in Clinical Pathology. 1997-2000
Fellowship	Hospital of the University of Pennsylvania, 3400 Spruce St, Philadelphia, PA 19104. Fellowship training in Transfusion Medicine. 1998-2000

HONORS AND AWARDS

Al Senft Prize for excellence in international health research	Brown University, 1995
American Federation of Clinical Research Student Prize	Brown University, 1996
Lenard Jarrett Resident Research Award	University of Pennsylvania, 1999
Special Award for Teaching (awarded by Pathology Residents in recognition of creation of lecture series in Transfusion Medicine)	Brown University, 2003
Dean's Award for Excellence in Teaching	Brown University, 2003
Dean's Award for Excellence in Teaching	Brown University, 2004
Chair of Scientific Session "Schistosomiasis Epidemiology"	American Society of Tropical Medicine and Hygiene, Annual Meeting, Washington, DC, December, 2005
Dean's Award for Excellence in Teaching	Brown University, 2007
Chair of Scientific Session "Schistosomiasis Epidemiology/Vaccine Development"	American Society of Tropical Medicine and Hygiene, Annual Meeting, Philadelphia, PA November, 2007
Paul Harris Fellow	Rotary Club International, 2008
Dean's Award for Excellence in Teaching	Brown University, 2008
Dean's Award for Excellence in Teaching	Brown University, 2009
Chair of Scientific Session "Schistosomiasis and Other Trematodes - Immunology/Pathology"	American Society of Tropical Medicine and Hygiene, Annual Meeting, Washington, DC November, 2009
Dean's Award for Excellence in Teaching	Brown University, 2010
Certificate of Recognition for Exemplary Teaching	Brown University, 2010
Dean's Award for Excellence in Teaching	Brown University, 2011
Bruce M. Selya Award for Excellence in Research	Lifespan Hospitals, 2011
Inaugural Chair's Award	Brown University, 2014

for Outstanding Achievement, Dept of Pathology	
Bailey K. Ashford Medal	American Society of Tropical Medicine and Hygiene “awarded for distinguished work in tropical medicine”, 2015
Member of NIH Study Section	NIH-NIAID “Clinical Research and Field Studies of Infectious Diseases” [CRFS] July 2016-July 2020.
Elected to Membership	American Society for Clinical Investigation, 2017

PROFESSIONAL LICENSES AND BOARD CERTIFICATIONS

RI State Physician License 2000-present
Board Certified in Clinical Pathology 2000
Board Certified in Transfusion Medicine 2001

ACADEMIC APPOINTMENTS

Assistant Professor, Pathology and Laboratory Medicine	Brown University, 2000– 2006
Associate Professor, Pathology and Laboratory Medicine	Brown University, 2006– 2011
Professor, Pathology and Laboratory Medicine	Brown University, 2011– present

HOSPITAL APPOINTMENTS

Assistant Medical Director, Transfusion Medicine Service, Lifespan Academic Medical Center, Providence, RI, 2000– 2006

Assistant Medical Director, Coagulation Service, Lifespan Academic Medical Center, Providence, RI, 2002– 2006

Associate Medical Director, Transfusion Medicine Service, Lifespan Academic Medical Center, Providence, RI, 2006– 2017

Associate Medical Director, Coagulation Service, Lifespan Academic Medical Center, Providence, RI, 2006– 2017

OTHER APPOINTMENTS

Director of Laboratories, Lifespan Center for International Health Research	Rhode Island Hospital, Brown University School of Medicine, 2017-
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Director, Lifespan Center for International Health Research	Rhode Island Hospital, Brown University School of Medicine, 2005-2017
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Director of Laboratories, International Health Institute	Brown University, 2001- 2005
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Associated Faculty, Masters in Public Health Program

Brown University, 2002- present

Member of Scientific Advisory Committee for NIH
Schistosome Repository

NIH/BEI, 2013-present

SCIENTIFIC REVIEW APPOINTMENTS

Peer Reviewer for following journals:

Transfusion (n=1)
American Journal of Tropical Medicine and Hygiene
(n=22)
Cytokine (n=1)
Journal of Infectious Disease (n=12)
Infection and Immunity (n=22)
Human Biology (n=1)
Protein Expression and Purification (n=2)
Acta Tropica (n=6)
PLOS NTD (n=11)
Trends in Parasitology (n=2)
Vaccine (n=1)
Human Parasitic Disease (n=1)
Malaria Journal (n=2)
BMC Immunology (n=1)
Virulence (n=1)
International Journal of Parasitology (n=4)
PLOS Pathogens (n=2)
Nature Communications (n=1)
Scientific Reports (n=2)
Journal of Clinical Investigation (n=1)
Laboratory Investigation (n=1)
Malaria Research and Treatment (n=1)
Molecular and Biochemical Parasitology (n=1)
Nature Medicine (n=1)

Member of the Editorial Board for Infection and Immunity (2009-present) and Human Parasitic Diseases (2009-2012)

Ad Hoc Associate Editor for PLOS NTD (2009)

Member of following grant review committees:

SBRI Phase 1 grants on Liver Stage Malaria- Sponsored by Department of Defense	Sept 2002, Sponsored by Department of Defense
STO grants on Infectious Diseases and Blood Products	11-12 March 13, 2003- WRAIR,

for Department of Defense	Washington, DC
SBRI Phase 2 grants on Liver Stage Malaria- Sponsored by Department of Defense	May 2003, Sponsored by Department of Defense
ILIR grants on malaria vaccine development	July 2003, Sponsored by Department of Defense
SBIR grants on Transfusion Medicine	Sept 2003, Sponsored by Department of Defense
SBIR grants on Transfusion Medicine	March 2004, Sponsored by Department of Defense
NIH NIAID Special Emphasis Panel ZRG1 ICP-2 51 S “PA-03-012 Global Infectious Disease Research Training Program”	5 April 2004, NIH Center for Scientific Review, Washington, DC
SBIR Phase I grants on Environmental Threat Detection	April 2004, Sponsored by Department of Defense
SBIR grants on Transfusion Medicine	May 2004, Sponsored by Department of Defense
SBIR Phase II grants on Environmental Threat Detection	May 2005, Sponsored by Department of Defense
Fogarty AIDS International Training and Research Program Subproject on Transfusion Safety in the Philippines	October 2005, Miriam Hospital/Brown University/ Tufts University AITRP
NIH-NICHHD U01 RFA “Global Network for Women’s and Children’s Health”	12 June 2006, NIH Center for Scientific Review, Washington, DC
NIH NIAID Vector Biology Study Section	6 June 2008, NIH Center for Scientific Review, Washington, DC
NIH Challenge Review ZRG1 IMM-E (58) R	20-21 July, 2009
Wellcome Trust scientific review panel	27 January, 2010
NIH-CDC Special Emphasis Panel A “Conducting Public Health Research in Kenya”	29 June, 2010
ZAI1 FDS-M (S1) 1- NIAID Clinical Trial Planning and Implementation Grants	19 May, 2011
ZRG1 F13-C (20) L Fellowships: Infectious Diseases and Microbiology	18 November, 2011
MRC/DfID African Research Leader scheme: Strategic Grant applications	25 January, 2012
NIH CFAR Developmental Grant	18 May, 2012
ZAI1 LAR-M (J1) 1- NIAID Clinical Trial Planning Grants (R34) and Implementation Grants and Cooperative Agreements (R01, U01)	5 October, 2012
Swiss National Science Foundation- “Research – 4-Development”	29 November, 2012
NIH- NIAID IRAP study section	25-26 June, 2013
Swiss National Science Foundation- “Research – 4-Development”	15 June, 2013
NIH CFAR Developmental Grant	8 Nov, 2013

NIH- NIAID IRID-A study section	6 December, 2013
NIH- NIAID IRAP study section	17-19 Dec, 2013
NIH- NIAID IRID-A study section	19 December, 2013
NIH-NIAID CMI-A study section	29 July, 2014
NIH- NIAID IRID-A study section	13-14 November, 2014
NIH-NIAID ZAI1 LG-M (M1) 1 Clinical Trial Planning Grant (R34) and Clinical Trial Implementation Cooperative Agreement (UO1)	20 February, 2015
NIH- NIAID CRFS study section	15-16 June, 2015
NIH- NIAID CRFS study section	15-16 October, 2015
NIH- NIAID CRFS study section	18 February, 2016
NIH- NIAID CRFS study section	15 June, 2016
NIH- NIAID CRFS study section	17 October, 2016
NIH- NIAID CRFS study section	16 February, 2017
NIH- NIAID CRFS study section	12 June, 2017
NIH- NIAID CRFS study section	15-16 October, 2017
NIH- NIAID CRFS study section	15-16 February, 2018
NIH- NIAID CRFS study section	12-13 June, 2018
NIH- NIAID CRFS study section	15-16 October, 2018
NIH- NIAID CRFS study section	14-15 February, 2019
NIH- NCI TEP-11 study section- CHAIR	1 March, 2019
NIH- NIAID CRFS study section	13-14 June, 2019
NIH- NIAID CRFS study section	17-18 October, 2019
NIH- NIAID ZRG1 PSE-C 02M study section	3 December, 2021

Member of External Promotion Review Committee to associate professor for Dr. Julie Moore, PhD, The University of Georgia, Sept 2004.

Member of External Promotion Review Committee to full professor for Dr. Jeffrey Bethony, PhD, George Washington University, Oct 2014.

Member of External Promotion Review Committee to full professor for Dr. Andrew Oleinikov, PhD, Florida Atlantic University, July 2016.

Co-mentor for Dr. Emily McDonald's successful NIH (K01) Career Development Award 2014-2019

Primary mentor for Dr. Ian Michelow's successful NIH (K08) Career Development Award 2013-2018

Member of External Promotion Review Committee to full professor for Dr. Jonathan Juliano, MD, University of North Carolina, April 2019.

Member of External Promotion Review Committee to full professor for Dr. Rhoel R. Dinglasan, PhD, University of Florida, August 2019.

Member of External Promotion Review Committee to associate professor for Dr. Steven Taylor, MD, Duke University, January 2021.

Member of External Promotion Review Committee to associate professor for Dr. Sunil Parikh, MD, Yale University, January 2021.

HOSPITAL COMMITTEES

Transfusion Committee	Lifespan Academic Medical Center, Providence, RI, 2000– present
Search Committee: Faculty position in Medicine (FH-590)	Lifespan Academic Medical Center, Providence, RI, 2002– 2006
Search Committee: Faculty position in Pediatrics	Lifespan Academic Medical Center, Providence, RI, 2012– 2014
Member of Promotions Committee	Department of Pathology and Laboratory Medicine, Brown University, 2014-2017
Search Committee: Faculty position in Medicine	Lifespan Academic Medical Center, Providence, RI, 2017–
Chair-Search Committee: Faculty position in Pathology	Department of Pathology and Laboratory Medicine, Brown University, 2018
Member-Search Committee: Faculty position in Pathology	Department of Pathology and Laboratory Medicine, Brown University, 2018
Member-Search Committee: Faculty position in Pathology	Department of Pathology and Laboratory Medicine, Brown University, 2019
Member-Search Committee: Faculty position in Pathology	Department of Pathology and Laboratory Medicine, Brown University, 2019

MEMBERSHIP IN SOCIETIES

American Society of Tropical Medicine and Hygiene	1995- present
American Association of Blood Banks	2000- 2002
New England Association of Parasitology	1999- present
American Society for Clinical Investigation	2017-present

PUBLICATIONS

1. McClanahan T, **Kurtis J.** Population regulation of the rock boring sea urchin *echinometra mathaei* (de blainville). *J Exp Mar Biol Ecol* 1991;147:121-146
2. Becker MM, Kalinna BH, Yang W, Harrop SA, Scott JC, Waine GJ, **Kurtis JD** and McManus DP. Gene cloning and complete nucleotide sequence of philippine *schistosoma*

japonicum paramyosin. Acta Trop 1995;59:143-7

3. Ramirez BL, **Kurtis JD**, Wiest PM, Arias P, Aligui F, Acosta L, Peters P and Olds GR. Paramyosin: A candidate vaccine antigen against *schistosoma japonicum*. Parasite Immunol 1996;18:49-52
4. **Kurtis JD**, Ramirez BL, Wiest PM, Dong KL, El-Meanawy A, Petzke MM, Johnson JH, Edmison J, Maier RA, Jr. and Olds GR. Identification and molecular cloning of a 67-kilodalton protein in *schistosoma japonicum* homologous to a family of actin-binding proteins. Infect Immun 1997;65:344-7
5. **Kurtis JD**, Koros JK, Duffy PE and Green MD. Malaria prevention for travelers. JAMA 1998;279:990-1
6. Santiago ML, Hafalla JC, **Kurtis JD**, Aligui GL, Wiest PM, Olveda RM, Olds GR, Dunne DW and Ramirez BL. Identification of the *schistosoma japonicum* 22.6-kda antigen as a major target of the human ige response: Similarity of ige-binding epitopes to allergen peptides. International Archives of Allergy & Immunology 1998;117:94-104
7. **Kurtis JD**, Lanar DE, Opollo M and Duffy PE. Interleukin-10 responses to liver-stage antigen 1 predict human resistance to *plasmodium falciparum*. Infect Immun 1999;67:3424-29
8. McGrath CM, **Kurtis JD** and Yu GH. Evaluation of mild-to-moderate dysplasia on cervical-endocervical (pap) smear: A subgroup of patients who bridge lsil and hsil. Diagn Cytopathol 2000;23:245-248
9. Friedman JF, **Kurtis JD**, McGarvey ST, Fraga AL, Silveira A, Pizziolo V, Gazzinelli G, LoVerde P and Correa-Oliveira R. Comparison of self-reported and observed water contact in an s. Mansoni endemic village in brazil. Acta Trop 2001;78:251-9
10. **Kurtis JD**, Hollingdale MR, Luty AJ, Lanar DE, Krzych U and Duffy PE. Pre-erythrocytic immunity to plasmodium falciparum: The case for an lsa-1 vaccine. Trends Parasitol 2001;17:219-23
11. **Kurtis JD**, Mtalib R, Onyango FK and Duffy PE. Human resistance to plasmodium falciparum increases during puberty and is predicted by dehydroepiandrosterone sulfate levels. Infect Immun 2001;69:123-8
12. Gourley IS, **Kurtis JD**, Kamoun M, Amon JJ and Duffy PE. Profound bias in interferon-gamma and interleukin-6 allele frequencies in western kenya, where severe malarial anemia is common in children. J Infect Dis 2002;186:1007-12. **(Note: I.G and J.K. are joint first authors)**
13. Friedman JF, **Kurtis JD**, Mtalib R, Opollo M, Lanar DE and Duffy PE. Malaria is related to decreased nutritional status among male adolescents and adults in the setting of intense perennial transmission. J Infect Dis 2003;188:449-57. **(Note: J.F. and J.K. are joint first authors)**

14. Leenstra T, Ter Kuile FO, Kariuki SK, Nixon CP, Oloo AJ, Kager PA and **Kurtis JD**. Dehydroepiandrosterone sulfate levels associated with decreased malaria parasite density and increased hemoglobin concentration in pubertal girls from western kenya. *J Infect Dis* 2003;188:297-304
15. Leenstra T, Kariuki SK, **Kurtis JD**, Oloo AJ, Kager PA and Ter Kuile FO. Prevalence and severity of anemia and iron deficiency: Cross-sectional studies in adolescent schoolgirls in western kenya. *Eur J Clin Nutr* 2004;58:681-91
16. Solomon JS, Nixon CP, McGarvey ST, Acosta LP, Manalo D and **Kurtis JD**. Expression, purification, and human antibody response to a 67kda vaccine candidate for schistosomiasis japonica. *Protein Expr Purif* 2004;36:226-31
17. Sweeney JD, Kouttab NM, Holme S, **Kurtis JD**, Cheves TA and Nelson EJ. Prestorage pooled whole-blood-derived leukoreduced platelets stored for seven days, preserve acceptable quality and do not show evidence of a mixed lymphocyte reaction. *Transfusion* 2004;44:1212-9
18. Wu HW, Tian HS, Wu GL, Langdon GC, **Kurtis JD**, Shen B, Ma L, Li XL, Gu Y, Hu XB and Zhu CL. *Culex pipiens pallens*: Identification of genes differentially expressed in deltamethrin-resistant and -susceptible strains. *Pesticide Biochemistry and Physiology* 2004;79:75-83
19. Coutinho HM, McGarvey ST, Acosta LP, Manalo DL, Langdon GC, Leenstra T, Kanzaria HK, Solomon J, Wu H, Olveda RM, **Kurtis JD** and Friedman JF. Nutritional status and serum cytokine profiles in children, adolescents, and young adults with schistosoma japonicum-associated hepatic fibrosis, in Leyte, philippines. *J Infect Dis* 2005;192:528-36
20. Ezeamama AE, Friedman JF, Acosta LP, Bellinger DC, Langdon GC, Manalo DL, Olveda RM, **Kurtis JD** and McGarvey ST. Helminth infection and cognitive impairment among filipino children. *Am J Trop Med Hyg* 2005;72:540-548
21. Friedman JF, Kanzaria HK, Acosta LP, Langdon GC, Manalo DL, Wu H, Olveda RM, McGarvey ST and **Kurtis JD**. Relationship between schistosoma japonicum and nutritional status among children and young adults in leyte, the philippines. *Am J Trop Med Hyg* 2005;72:527-33
22. Kanzaria HK, Acosta LP, Langdon GC, Manalo DL, Olveda RM, McGarvey ST, **Kurtis JD** and Friedman JF. Schistosoma japonicum and occult blood loss in endemic villages in leyte, the philippines. *Am J Trop Med Hyg* 2005;72:115-8
23. Lipkind HS, **Kurtis JD**, Powrie R and Carpenter MW. Acquired von willebrand disease: Management of labor and delivery with intravenous dexamethasone, continuous factor concentrate, and immunoglobulin infusion. *Am J Obstet Gynecol* 2005;192:2067-70
24. Nixon CP, Friedman J, Treanor K, Knopf PM, Duffy PE and **Kurtis JD**. Antibodies to rhoptry-associated membrane antigen predict resistance to plasmodium falciparum. *J Infect Dis* 2005;192:861-9

25. Nixon CP, Friedman JF, Knopf PM, Duffy PE and **Kurtis JD**. Protective human immunity as a vaccine discovery tool for falciparum malaria. *Transfusion* 2005;45:81S-87S
26. Sweeney JD, **Kurtis JD** and Starakiewicz J. Residual risks of blood transfusion in Rhode Island. *Med Health R I* 2005;88:224-231
27. Ezeamama AE, Friedman JF, Olveda RM, Acosta LP, **Kurtis JD**, Mor V and McGarvey ST. Functional significance of low-intensity polyparasite helminth infections in anemia. *J Infect Dis* 2005;192:2160-7028
28. Leenstra T, Acosta LP, Wu HW, Langdon GC, Solomon JS, Manalo DL, Su L, Jiz M, Jarilla B, Pablo AO, McGarvey ST, Olveda RM, Friedman JF and **Kurtis JD**. T-Helper-2 Cytokine Responses to Sj97 Predict Resistance to Reinfection with *Schistosoma japonicum*. *Infect Immun* 2006;74:370-81
29. Coutinho HM, Acosta LP, McGarvey ST, Jarilla B, Jiz M, Pablo A, Su L, Manalo DL, Olveda RM, **Kurtis JD** and Friedman JF. Nutritional Status Improves after Treatment of *Schistosoma japonicum*-Infected Children and Adolescents. *J Nutr* 2006;136:183-8
30. Coutinho HM, Leenstra T, Acosta LP, Su L, Jarilla B, Jiz MA, Langdon GC, Olveda RM, McGarvey ST, **Kurtis JD** and Friedman JF. Pro-inflammatory cytokines and c-reactive protein are associated with undernutrition in the context of *Schistosoma japonicum* infection. *Am J Trop Med Hyg* 2006;75:720-6. PMID17038701.
31. Sweeney J, Kouttab N, Holme S, **Kurtis J**, Cheves T and Nelson E. Storage of platelet-rich plasma-derived platelet concentrate pools in plasma and additive solution. *Transfusion* 2006;46:835-40
32. Leenstra T, Acosta LP, Langdon GC, Manalo DL, Su L, Olveda RM, McGarvey ST, **Kurtis JD** and Friedman JF. Schistosomiasis japonica, anemia, and iron status in children, adolescents, and young adults in Leyte, Philippines. *Am J Clin Nutr* 2006;83:371-9
33. **Kurtis JD**, Friedman JF, Leenstra T, Langdon GC, Wu HW, Manalo DL, Su L, Jiz M, Jarilla B, Pablo AO, McGarvey ST, Olveda RM and Acosta LP. Pubertal development predicts resistance to infection and reinfection with *Schistosoma japonicum*. *Clin Infect Dis* 2006;42:1692-8
34. Leenstra T, Coutinho HM, Acosta LP, Langdon GC, Su L, Olveda RM, McGarvey ST, **Kurtis JD** and Friedman JF. *Schistosoma japonicum* reinfection after praziquantel treatment causes anemia associated with inflammation. *Infect. Immun.* 2006;74:6398-407
35. Wu HW, Hu XM, Wang Y, **Kurtis JD**, Zeng FJ, McGarvey ST, Wu GL, Zhang ZS and Hua ZC. Protective immunity induced by phage displayed mitochondrial related peptides of *Schistosoma japonicum*. *Acta Trop.* 2006;99:200-7
36. Coutinho HM, Acosta LP, Wu HW, McGarvey ST, Su L, Langdon GC, Jiz MA, Jarilla B, Olveda RM, Friedman JF and **Kurtis JD**. Th2 Cytokines Are Associated with Persistent Hepatic Fibrosis in Human *Schistosoma japonicum* Infection. *J. Infect. Dis.* 2007;195:288-95

37. Coutinho HM, Leenstra T, Acosta LP, Olveda RM, McGarvey ST, Friedman JF and **Kurtis JD**. Higher Serum Concentrations of DHEAS Predict Improved Nutritional Status in Helminth-Infected Children, Adolescents, and Young Adults in Leyte, the Philippines. *J. Nutr.* 2007;137:433-439
38. Friedman JF, Mital P, Kanzaria HK, Olds GR and **Kurtis JD**. Schistosomiasis and pregnancy. *Trends Parasitol* 2007;23:159-64
39. Friedman JF, **Kurtis JD** and McGarvey ST. The dual burden of infectious and non-communicable diseases in the Asia-Pacific region: examples from the Philippines and the Samoan Islands. *Med. Health R. I.* 2007;90:346-50
40. Tu Z, Bozorgzadeh A, Pierce RH, **Kurtis J**, Crispe IN and Orloff MS. TLR-dependent cross talk between human Kupffer cells and NK cells. *J. Exp. Med.* 2008;205:233-44
41. Luo J, Xu J, Zhang Y, Shan H, Zhang S, Zhang M, Tu X, Ji M, Chen F, Knopf PM, **Kurtis J**, Wu G and Wu HW. I-STOD: a new standardization method for analysing indirect-ELISA results of a schistosomiasis field study. *Parasitology* 2008:1-13
42. Kabyemela ER, Muehlenbachs A, Fried M, **Kurtis JD**, Mutabingwa TK and Duffy PE. Maternal peripheral blood level of IL-10 as a marker for inflammatory placental malaria. *Malar J* 2008;7:26
43. Kabyemela ER, Fried M, **Kurtis JD**, Mutabingwa TK and Duffy PE. Fetal responses during placental malaria modify the risk of low birth weight. *Infect. Immun.* 2008;76:1527-34
44. Jiz M, Wu HW, Meng R, Pond-Tor S, Reynolds M, Friedman JF, Olveda R, Acosta L and **Kurtis JD**. Pilot-scale production and characterization of paramyosin, a vaccine candidate for schistosomiasis japonica. *Infect Immun* 2008;76:3164-9
45. Ezeamama AE, McGarvey ST, Acosta LP, Zierler S, Manalo DL, Wu HW, **Kurtis JD**, Mor V, Olveda RM and Friedman JF. The Synergistic Effect of Concomitant Schistosomiasis, Hookworm, and Trichuris Infections on Children's Anemia Burden. *PLoS Negl Trop Dis* 2008;2:e245
46. Kabyemela ER, Fried M, **Kurtis JD**, Mutabingwa TK and Duffy PE. Decreased Susceptibility to Plasmodium falciparum Infection in Pregnant Women with Iron Deficiency. *J Infect Dis* 2008;198:163-166
47. Cham GK, **Kurtis J**, Lusingu J, Theander TG, Jensen AT and Turner L. A semi-automated multiplex high-throughput assay for measuring IgG antibodies against Plasmodium falciparum erythrocyte membrane protein 1 (PfEMP1) domains in small volumes of plasma. *Malar J* 2008;7:108
48. Laga A, **Kurtis J** and Sweeney J. Recurrent transfusion-related acute lung injury after fresh frozen plasma in a patient with hereditary factor V deficiency. *Am J Hematol* 2008;83:680
49. Lin DD, Xu JM, Zhang YY, Liu YM, Hu F, Xu XL, Li JY, Gao ZL, Wu HW, **Kurtis J** and

- Wu GL. Evaluation of IgG-ELISA for the diagnosis of *Schistosoma japonicum* in a high prevalence, low intensity endemic area of China. *Acta Trop* 2008;107:128-33
50. Luo J, Xu J, Zhang Y, Shan H, Zhang S, Zhang M, Tu X, Ji M, Chen F, Knopf PM, **Kurtis J**, Wu G and Wu HW. I-STOD: a new standardization method for analysing indirect-ELISA results of a schistosomiasis field study. *Parasitology* 2008:1-13
 51. Friedman JF, **Kurtis JD**, Kabyemela ER, Fried M and Duffy PE. The iron trap: iron, malaria and anemia at the mother-child interface. *Microbes Infect* 2009;11:460-6
 52. Jiz M, Friedman JF, Leenstra T, Jarilla B, Pablo A, Langdon G, Pond-Tor S, Wu HW, Manalo D, Olveda R, Acosta L and **Kurtis JD**. Immunoglobulin E (IgE) responses to paramyosin predict resistance to reinfection with *Schistosoma japonicum* and are attenuated by IgG4. *Infect Immun* 2009;77:2051-8
 53. Leenstra T, Kariuki SK, **Kurtis JD**, Oloo AJ, Kager PA and ter Kuile FO. The effect of weekly iron and vitamin a supplementation on hemoglobin levels and iron status in adolescent schoolgirls in western kenya. *Eur. J. Clin. Nutr.* 2009;63:173-82. PMID17928808.
 54. Sweeney J, Kouttab N and **Kurtis J**. Stored red blood cell supernatant facilitates thrombin generation. *Transfusion* 2009
 55. Cham GK, Turner L, Lusingu J, Vestergaard L, Mmbando BP, **Kurtis JD**, Jensen AT, Salanti A, Lavstsen T and Theander TG. Sequential, ordered acquisition of antibodies to *Plasmodium falciparum* erythrocyte membrane protein 1 domains. *J Immunol* 2009;183:3356-63
 56. Kabyemela E, Fried M, **Kurtis J** and Duffy P. Elevated Ferritin and Malaria: Cause or Effect? Reply. *Journal of Infectious Diseases* 2009;199:152-154
 57. Xu JM, Acosta LP, Hou M, Manalo DL, Jiz M, Jarilla B, Pablo AO, Olveda RM, Langdon G, McGarvey ST, **Kurtis JD**, Friedman JF and Wu HW. Seroprevalence of cysticercosis in children and young adults living in a helminth endemic community in Leyte, the Philippines. *J Trop Med* 2010;2010:603174
 58. Tu Z, Pierce RH, **Kurtis J**, Kuroki Y, Crispe IN and Orloff MS. Hepatitis C Virus Core Protein Subverts the Anti-Viral Activities of Human Kupffer Cells. *Gastroenterology* 2010
 59. Olson CL, Acosta LP, Hochberg NS, Olveda RM, Jiz M, McGarvey ST, **Kurtis JD**, Bellinger DC and Friedman JF. Anemia of Inflammation Is Related to Cognitive Impairment among Children in Leyte, The Philippines. *PLoS Negl Trop Dis* 2009;3:e533
 60. Wu HW, Qin YF, Chu K, Meng R, Liu Y, McGarvey ST, Olveda R, Acosta L, Ji MJ, Fernandez T, Friedman JF and **Kurtis JD**. High Prevalence of *Schistosoma japonicum* Infection in Water Buffaloes in the Philippines Assessed by Real-Time Polymerase Chain Reaction. *Am J Trop Med Hyg* 2010;82:646-652
 61. Shaw JG, Aggarwal N, Acosta LP, Jiz MA, Wu HW, Leenstra T, Coutinho HM, Olveda RM, **Kurtis JD**, McGarvey ST and Friedman JF. Reduction in Hookworm Infection after

- Praziquantel Treatment among Children and Young Adults in Leyte, the Philippines. *Am J Trop Med Hyg* 2010;83:416-421
62. Kalkunte S, Boij R, Norris W, Friedman J, Lai Z, **Kurtis J**, Lim KH, Padbury JF, Matthiesen L and Sharma S. Sera from preeclampsia patients elicit symptoms of human disease in mice and provide a basis for an in vitro predictive assay. *Am J Pathol* 2010;177:2387-98
 63. Cham GK, Turner L, **Kurtis JD**, Mutabingwa T, Fried M, Jensen AT, Lavstsen T, Hviid L, Duffy PE and Theander TG. Hierarchical, domain type-specific acquisition of antibodies to Plasmodium falciparum erythrocyte membrane protein 1 in Tanzanian children. *Infect Immun* 2010;78:4653-9
 64. **Kurtis JD**, Higashi A, Wu HW, Gundogan F, McDonald EA, Sharma S, Pondtor S, Jarilla B, Sagliba MJ, Gonzal A, Olveda R, Acosta L and Friedman JF. Maternal schistosomiasis japonica is associated with maternal, placental, and fetal inflammation. *Infect Immun* 2011;79:1254-61
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INVITED PRESENTATIONS

1) Walter Reed Army Institute of Research	WRAIR, Washington, DC. May 1996. Title- "Vaccine development for schistosomiasis japonica"
2) 15th Annual Joint Scientific Conference- National Institute for Medical Research	NIMR, Dar es Salaam, Tanzania. March 1997. Title- "Age dependence and stability of naturally acquired immunity to <i>Plasmodium falciparum</i> following chemotherapy in a holoendemic area of western Kenya"
3) Kenya Medical Research Institute (KEMRI)	KEMRI, Nairobi, Kenya. Feb 1997. Title- "Associations among age, time to reinfection, parasite density and frequency of parasitemia with <i>Plasmodium falciparum</i> following chemotherapy in a holoendemic area of western Kenya"
4) Walter Reed Army Institute of Research	WRAIR, Washington, DC. Nov 1998. Title- "Anti-LSA-1 immune responses and resistance to falciparum malaria"
5) University of Pennsylvania, Lenard Jarret Research Symposium	Philadelphia, PA. 1999. Title- "Immunity and puberty in falciparum malaria"
6) New England Association of Parasitologists	University of Massachusetts, Amherst. Oct 2000. Title- "Vaccine development for falciparum malaria"
7) Hematology/Oncology Grand Rounds	Brown University School of Medicine. Dec 2000. Title- "Diagnostic and therapeutic approach to the acutely hemolyzing patient"
8) Brown University	Department of Pathology and Laboratory Medicine. Jan 2000. Title- "Puberty, immunity and resistance in human falciparum malaria"
9) "Voyages of Discovery" forum series commemorating the inauguration of	Brown University. 13 Oct 2001. Title- "Tropical diseases and delayed development"

Brown University's new President, Ruth Simmons	
10) WHO Panel of Experts for Environmental Management of Vectors schistosomiasis japonica (PEEM)	Research Institute of Tropical Medicine, the Philippines. 19 Oct 2001. Title- "Immune responses to cercarial elastase as a measure of parasite exposure"
11) Pathobiology Program Seminar, Brown University	Brown University. 7 Feb 02. Title- "Immunity, Puberty and Malnutrition in <i>P. falciparum</i> infection"
12) Pathology CME Seminar, LifeSpan AMC	Brown University. 12 March 02. Title- "Liver stage immunity in <i>P. falciparum</i> infection"
13) Watson Institute Scholars Lecture	Brown University, 13 March 02, Title- "Global impact of malaria"
14) Pathology Grand Rounds	University of Pennsylvania. 15 March 02. Title- "Vaccine development for human malaria"
15) Hematology/Oncology Grand Rounds	Brown University School of Medicine. 5 Sept 2002. Title- "Malaria pathogenesis, morbidity and vaccine development"
16) Rhode Island Blood Center	RIBC. 12 Dec 2002. Title- "Diagnostic and therapeutic approach to the acutely hemolyzing patient"
17) Pathobiology, Oncology and Molecular Medicine Seminar Series	University of Rochester 24 Feb 03. Title- "Immunity, Puberty and malnutrition in human malaria"
18) Reproductive Immunology Seminar	Woman and Infants Hospital, 19 Aug 03. Title- "Malaria and Schistosomiasis in Pregnancy"
19) Seminar in Malarial Pathogenesis and Epidemiology	University of Amsterdam Academic Medical Center, 17 Oct 03. Title- "Immunity, pubertal development and resistance to <i>Plasmodium falciparum</i> "
20) Lifespan Internal Medicine Morning Report	Rhode Island Hospital, 17 March 04. Title- "Acquired von Willebrand's Disease in Pregnancy"
21) Surgical Research Seminar Series	Rhode Island Hospital, 13 April 04. Title- "Maladaptive pro-inflammatory response to falciparum malaria predicts anemia and malnutrition"
22) Guest Lecture- Portsmouth Abbey	Portsmouth Abbey School, 21 May 04. Title "Pathobiology and vaccine development for falciparum malaria"
23) Hematology/Oncology Grand Rounds	Brown University School of Medicine. 17 Feb 2005. Title- "Pathogenesis and vaccine development for falciparum malaria"
24) Pathobiology Recruitment Seminar	Brown University School of Medicine. 25 Feb 2005. Title- "Vaccine development for falciparum malaria"
25) Schistosomiasis Research Symposium	Research Institute for Tropical Medicine, Manila, The Philippines, 1 Aug 05. Title "Development of protective immunity in <i>S. japonicum</i> - the Puberty Project"
26) Schistosomiasis in Pregnancy Stakeholders Meeting	Research Institute for Tropical Medicine, Manila, The Philippines, 2 Aug 05. Title "Impact of schistosomiasis on pregnancy outcomes- a pilot

	project”
27) Pathology Teaching and Research Rounds	Brown University School of Medicine. 28 Sept 2005. Title- "Mechanisms of Poor Pregnancy Outcome In Schistosome Infected Women”
28) SBRI East African Training Workshop- Vaccines for Parasitic Diseases	Morogoro Regional Hospital. 4 July 2006. Title- “Sample size calculations for vaccine trials”
29) SBRI East African Training Workshop- Vaccines for Parasitic Diseases	Morogoro Regional Hospital. 6 July 2006. Title- “Vaccine identification using protective human immune responses”
30) SBRI East African Training Workshop- Vaccines for Parasitic Diseases	Morogoro Regional Hospital. 7 July 2006. Title- “Vaccine trial design”
31) Liver Research Center	Rhode Island Hospital, 8 March 2007. Title- “Mechanisms of morbidity in schistosomiasis”
32) Hematology/Oncology Grand Rounds	Brown University School of Medicine. 6 Sept 2007. Title-“Pathogenesis and vaccine development for falciparum malaria”
33) Pathology Grand Rounds	Brown University School of Medicine. 26 Feb 2008. Title-“Malaria vaccine development”
34) RI Rotary Club	Rotary Club- 26 Feb 2008. Title-“Vaccine development for schistosomiasis”
35) Pediatric Resident Rounds	Brown University School of Medicine.16 June 2008. Title-“Malaria pathogenesis”
36) Medical Technology Association, 70 th Annual National Meeting	Providence Convention Center, 8 July 2008. Title-“Anemia of Inflammation”
37) Keynote Address to Annual MD/PhD retreat	Brown University School of Medicine. 10 Sept 2008. Title-“Translational research gap and malaria vaccine development”
38) Microbiology Seminar Series	Boston University School of Medicine 20 Oct 2008. Title-“Vaccines development for pediatric falciparum malaria”
39) SCORE symposium	University of Georgia, Athens, GA. 8 July 09. Title-“Mechanisms of morbidity in human schistosomiasis”
40) LifeSpan Infectious Disease Grand Rounds	Brown University School of Medicine. 14 April 2010. Title-“Malaria, Iron and Infant Mortality”
41) New Frontiers in Transfusion Medicine	Brown University School of Medicine. 24 April 2010. Title-“Malaria, Iron, Hepcidin and Infant Mortality”
42) National Blood Foundation	American Academy of Blood Banks Annual Meeting, 9 Oct 2010. Title- “Malaria vaccine development”
43) BRIGHT Scholars Program	Brown University School of Medicine, 9 Nov 2010. Title- “Iron Deficiency and Protective Immunity in Falciparum Malaria”
44) TRIAD Symposium on NTDs	University of Rhode Island, 11 Jan 2011. Title- “Rational vaccine development for falciparum malaria”
45) Pathology Grand Rounds	Columbia University, 31 May, 2011. Title- “Iron

	deficiency decreases the risk of Plasmodium falciparum malaria and death in children”
46) Gordon Research Conference- The Science Behind Malaria Control and Eradication	Il Ciocco Hotel and Resort, Lucca (Barga), Italy. 31 July- 5 August, 2011. Title- “Whole proteome screening for vaccine identification”
47) Combined ID, Pathology, Global Health Grand Rounds	UMASS Worchester, May 17 April 2012. Title- “Vaccine identification for pediatric falciparum malaria”
48) Grand Rounds- Joint Program in Transfusion Medicine	Brigham and Women's Hospital, May 16, 2012. Title- “Vaccine identification for pediatric falciparum malaria”
49) Research Seminar Series in the Department of Pathology	Boston Children's Hospital/Harvard Medical School, August 16, 2012. Title- “SEP-1, a novel vaccine candidate for falciparum malaria”
50) Bruce Seyla Research Award- Keynote speech	Rhode Island Hospital, 11 October, 2012. Title- “Vaccine identification for pediatric falciparum malaria”
51) COBRE Investigators Seminar	Women and Infants Hospital, 6 Dec, 2012. Title- “Schizont egress as a target for malaria vaccines”
52) Grand Rounds, Dept. of Pathology	Yale University, 9 May, 2013. Title- “Vaccine development for falciparum malaria”
53) VacRen	University of Rhode Island, 15 Oct 2014. Title- “Malaria Vaccines”
54) Keynote for Annual Research Celebration, College of Medicine	University of Urbana, 16 April 2015. Title-“ PfSEA-1 vaccines for malaria”
55) Keynote for New England Association of Parasitologists Annual meeting	Tufts University, 14 November, 2015. Title- “Vaccine development for human malaria”
56) Dom Luke Child’s Lecture	Portsmouth Abbey, 3 December, 2015. Title- “Vaccines for pediatric falciparum malaria”
57) Keynote for Annual Research Celebration, Wellesley College	Wellesley College, 7 March, 2016. Title- “Malaria pathogenesis and vaccine development”
58) WINDREF Research Seminar	St. Georges University, Grenada, 23 March, 2016. Title- “Malaria vaccine development”
59) US Naval Medical Research Center	Genomics and Bioinformatics, Biological Defense Research Directorate, Frederick, MD 22 July, 2016. Title- “Particulated vaccines for falciparum malaria”
60) Parasitology Lecture Series	School of Veterinary Medicine, University of Pennsylvania ,26 Sept, 2016. Title- “Malaria Vaccines”
61) Distinguished Lecturer Series	Charles E. Schmidt College of Medicine, Florida Atlantic University, 2 December, 2016. Title- “Malaria vaccines”
62) Transfusion Medicine Lecture Series	University of Pennsylvania Medical School, Department of Pathology Grand Rounds, April 12, 2017. Title-“Vaccine development for falciparum malaria”

63) Laboratory Medicine Grand Rounds	Yale University, Department of Laboratory Medicine, April 18, 2018. Title-“Malaria Vaccine Development”
64) Ruth Sauber Memorial Lecture	Brown University Commencement, May 26, 2018. Title-“Toward a Malaria Vaccine”
65) Department of Epidemiology Lecture Series	Yale School of Public Health, Nov 15 th , 2018. Title-“Malaria vaccine development”
66) Provost’s Faculty Lecture Series	Brown University, Nov 27 th , 2018. Title- “Vaccine Development for Falciparum Malaria”
67) International Schistosomiasis Research Forum	Research Institute for Tropical Medicine, Manila, the Philippines, March 12 th , 2019. Title- “Schistosomiasis Persistence and Subtle Morbidities”
68) Life Science Seminar Series	Assumption College, Mass, 21 October, 2019. Title-“Malaria vaccine discovery”
69) Department of Medicine Grand Rounds	UMASS Worchester Medical School, 31 Oct, 2019. Title- “PfGARP- a novel vaccine candidate for pediatric falciparum malaria”

GRANTS

Completed

1) Bowman Scholarship “Population regulation of the rock boring sea urchin *Echinometra mathaei* (de Blainville)” 1989, **\$2,500**. Dr. Kurtis is the PI.

2) Brown University Foreign Studies Fellowship “Population regulation of the rock boring sea urchin *Echinometra mathaei* (de Blainville)” 1989, **\$1,400**. Dr. Kurtis is the PI.

3) Brown University Independent Study Award “Population regulation of the rock boring sea urchin *Echinometra mathaei* (de Blainville)” 1989, **\$400**. Dr. Kurtis is the PI.

4) Watson Institute Fellowship “Longitudinal assessment of the association between schistosomiasis japonica and cardiovascular fitness in school aged children” 1992, **\$3,000**. Dr. Kurtis is the PI.

5) Brown University Foreign Studies Fellowship “Human immune responses to recombinant *Schistosoma mansoni* antigens: correlation with resistance/susceptibility to reinfection following chemotherapy” 1995, **\$3,000**. Dr. Kurtis is the PI.

6) Becton-Dickinson Tropical Medicine and Tropical Public Health Fellowship “Correlation between phenotypic T and B cell immune responses against Liver Stage Antigen 1 and the expression of

naturally acquired resistance to falciparum malaria in Western Kenya” June 1996-June 1997, **\$28,000**. Dr. Kurtis is the PI.

7) National Research Council Fellowship “Correlation between phenotypic T and B cell immune responses against Liver Stage Antigen 1 and the expression of naturally acquired resistance to falciparum malaria in Western Kenya” June 1996-June 1997, **\$50,000**. Dr. Kurtis is the PI.

8) Watson Institute Faulty Research Initiative “Identification of novel vaccine candidates for human falciparum malaria.” 2001-2002 **\$2,500**. Dr. Kurtis is the PI.

9) Rhode Island Foundation “Identification of novel vaccine candidates for human falciparum malaria.” 2001-2002. **\$10,000**. Dr. Kurtis is the PI.

10) National Blood Foundation “Novel erythrocyte invasion proteins as vaccines for human falciparum malaria” 2001-2002. **\$50,000**. Dr. Kurtis is the PI.

11) NIH/NIAID R03-AI054394 “Novel Vaccine Candidates for Falciparum Malaria” 2003-2005. Total Direct Costs: **\$100,000**. Dr. Kurtis is the PI at 5% effort.

12) NIH/NIAID R01-AI48123 “Puberty, immunity and malnutrition in *S. japonicum*” 2001-2007. Total Direct Costs: **\$2,219,991**. Dr. Kurtis is the PI at 45% effort.

13) NIH/NIAID R03-AI0647354-01 “Inflammation, Iron and Cognition in *S. japonicum*” 2005-2007. Total Direct Costs: **\$100,000**. Dr. Kurtis is a Co-Investigator at 5% effort.

14) W&I COBRE sub-project “Mechanisms of trophoblast injury in *S. Japonicum*” 2006-2007. Total Direct Costs: **\$70,000**. Dr Kurtis is the PI at 5% effort.

15) NIH/Fogarty International Center 1 D43 TW05509-01 “Malaria at the Mother-Child Interface” 2002-2007. Total Direct Costs: **\$694,445**. Dr. Kurtis is a trainer.

16) Gates Foundation Grand Challenges in Global Health/FNIH “Protective Immunity against Severe Malaria in Young Children” 2005-2012. Total Direct Costs for Kurtis’ Sub-Contract: **\$576,744**. Dr. Kurtis is the PI of the sub-contract at 20% effort.

17) NIH/NIAID U01-AI066050 “*S. japonicum* and pregnancy outcomes: an RCT”. 2006-2013. Total Direct Costs: \$ **\$4,159,137** . Dr Kurtis is a Co-Investigator at 25% effort.

18) Thrasher Research Foundation “Infant Hemoglobin, Nutritional Status and Neuro-Cognitive Development Following Maternal Treatment for *S. japonicum* during Pregnancy” 2007-2013. Total Direct Costs **\$270,552** Dr Kurtis is the Co-PI at 5% effort.

19) NIH/NIAID 1R01AI076353 “Targeted Vaccine Development for Pediatric Falciparum Malaria” 2008-2013. Total Direct Costs: **\$2,470,732**. Dr. Kurtis is the PI at 30% effort.

20) NIH/NHLBI RC2 HL101740 “Molecular Phenotypes of Rapidly Progressive Idiopathic Pulmonary Fibrosis” 2009-2012. Total Costs of Subcontract: **\$765,342**. Dr. Kurtis is the Co-

Investigator at 10% effort.

21) R56-AI091753-01A1 “Vaccines for human Schistosomiasis japonica” 2011-2013. Total Direct Costs: **\$504,884**. Dr. Kurtis is the PI at 30% effort.

22) Bill and Melinda Gates Foundation BMGF:00707000157 "Fetal inflammation, cachexia, iron uptake, and LBW" 2012-2013. Total Direct Costs: **\$100,000**. Dr. Kurtis is the Co-Investigator at 3% effort.

23) NIH/NIAID R21AI09A17963-01A1 “Adjuvant and Dose Optimization of Paramyosin based Vaccines for Schistosomiasis” 2012-2014. Total Costs: **\$343,898**. Dr. Kurtis is the PI at 10% effort.

24) NIH/NIAID R03 AI099724-01A1 “Fibrosin: a candidate biomarker of schistosomal liver fibrosis in humans”. 2013-2015. Total Direct Costs: **\$100,000**. Dr. Kurtis is the Co-Investigator at 1% effort.

25) NIH/NHLBI R01 HL109118-01A1 “Matrix Biomarkers and Compartmentalization in IPF” 2012-2017 Total Direct Costs of Sub-Contract: **\$336,903**. Dr. Kurtis is the Co-Investigator at 10% effort.

26) NIH TMRC P50 AI098481-01 “Schistosomiasis vaccine development and morbidity throughout the life course” 2012-2017. Total Direct Costs: **\$1,864,898**. Dr. Kurtis is the North American PI at 10% effort.

27) NIH/NIAID R01 AI101274-01A1 “Schistosome Vaccines” 2013-2018. Total Costs: **\$2,275,391**. Dr. Kurtis is the PI at 20% effort.

28) NIH/NIGMS COBRE P20GM104317 “Immune-based interventions against infectious diseases”. 2012-2017. Dr Kurtis is the R1H PI of the Administrative Core (Total Costs: **\$240,280**), the PI of the High Throughput Multiplexed Immunology Core (Total Costs: **\$475,593**) and the Mentor for Project 1 “Development of novel vaccine candidates for pediatric falciparum malaria” (Total Costs: **\$1,452,603**) and Project 4.

29) March of Dimes “Pre-clinical evaluation of a novel vaccine for pediatric falciparum malaria” 2015-2018. Total Costs: **\$419,000**. Dr. Kurtis is the PI at 10% effort

30) NIH/NIAID R01 AI110699-01A1 “PfSEA-1 based vaccines for falciparum malaria” 2014-2019. Total Costs: **\$2,567,622**. Dr. Kurtis is the PI at 20% effort.

Current

31) NIH/NIAID R01HD092301-01 “One Health- Vaccine Development for Bovine and Human Schistosomiasis” 2017-2022. Total Costs **\$2,340,562**. Dr. Kurtis is the PI at 10% effort.

32) NIH/NIAID 1R01AI127699-01-A1 “Tfh responses to novel vaccine candidates and protection from pediatric falciparum malaria” 2017-2022. Total Costs: **\$3,385,048**. Dr. Kurtis is the PI at 25% effort.

33) Warren Alpert Foundation “mRNA vaccines for Pediatric Falciparum Malaria” 2021-2026 Total Costs **\$4.6M**. Dr Kurtis is PI at 20% effort.

34) NIH/NIAID TMRC U01AI168560-01 “Biomarkers to Identify Individuals at Risk for Progression of S. Japonicum Associated Hepatic Fibrosis with Point of Care Test Development” 2022-2027. Total Costs \$ **3,057,250**. Dr. Kurtis is a Co-Investigator at 10% effort.

Pending

NIH/NIAID R01 “Identifying the targets of protective immunity to severe falciparum malaria” 2022-2027. Total Costs \$ **3,548,648**. Dr. Kurtis is the PI at 30% effort.

34) NIH/NIAID R01 “Apoptosis-inducing anti-malaria drugs targeting PfGARP” 2019-2024. Total Costs \$ **3,879,629**. Dr. Kurtis is the PI at 30% effort.

UNIVERSITY TEACHING ROLES

In 2004-2005, Dr. Kurtis served as the **Co-Course Leader for BIO254a- Immunology**. Dr. Kurtis gave 21 lecture hours to 38 MS students.

Dr. Kurtis gives 1-7 lectures per course per year on International Health, Parasitology, Coagulation and Pharmacology in the following University courses: BC107, BIO158, BIO54, BIO273. BIO350

Dr. Kurtis directed the Parasitology section of the integrated BIO365 course from 2008-2012.

Year	Course
1999-2000	BC107- Malaria Pathogenesis and Burden of Disease BIO54- Malaria vaccine development
2000-2001	BC107- Malaria Pathogenesis and Burden of Disease BC107- Introduction to Immunology Watson Institute Scholars Program- Malaria Pathogenesis and Control BIO158- Malaria- Pathogenesis and Maternal Malaria
2001-2002	BIO285- Vaccine development for Schistosomiasis and Malaria BIO158- Malaria- Pathogenesis and Maternal Malaria
2002-2003	BIO350- Anti-Parasitic Drugs BIO158- Malaria- Pathogenesis and Maternal Malaria BC107- Malaria Pathogenesis and Burden of Disease
2003-	BIO350- Anti-Coagulants Part 1

2004	BIO350- Anti-Platelet agents Part 2 BIO350- Anti-Thrombotic agents Part 3 BIO54- Malaria vaccine development BC107- Malaria Pathogenesis and Burden of Disease BIO350- Anti-malarial Drugs BIO160- Vaccine Development for Malaria BIO350- Anti-Parasitic Drugs
2004- 2005	BC107- Malaria Pathogenesis and Burden of Disease
	BIO254a-Immunology BIO273-Infections and Hematology BIO350- Anti-Coagulants Part 1 BIO350- Anti-Platelet agents Part 2 BIO350- Anti-Thrombotic agents Part 3 Tropical Topics Elective- Malaria vaccine development
2005- 2006	BC107- Malaria Pathogenesis and Burden of Disease BIO273-Infections and Hematology
2006- 2007	BC107- Malaria Pathogenesis and Burden of Disease
	BIO350- Anti-Coagulants Part 1
	BIO350- Anti-Platelet agents Part 2
	BIO350- Anti-Thrombotic agents Part 3
	Tropical Topics Elective- Malaria vaccine development
	BIO155-Malarial Immunology
2007- 2008	BC107- Malaria Pathogenesis and Burden of Disease
	BIO350- Anti-Coagulants Part 1
	BIO350- Anti-Platelet agents Part 2
	BIO350- Anti-Thrombotic agents Part 3
	BIO365- Parasitology Part 1
	BIO365- Parasitology Part 2
	BIO365- Parasitology Part 3
	BIO365- Parasitology Part 4
	BIO365- Parasitology Part 5
	BIO365- Parasitology Part 6
2008- 2009	BC107- Malaria Pathogenesis and Burden of Disease
	BIO350- Anti-Coagulants Part 1
	BIO350- Anti-Platelet agents Part 2
	BIO350- Anti-Thrombotic agents Part 3
	BIO365- Parasitology Part 1

	BIO365- Parasitology Part 2
	BIO365- Parasitology Part 3
	BIO365- Parasitology Part 4
	BIO365- Parasitology Part 5
	BIO365- Parasitology Part 6
	BIO365- Parasitology Part 7
2009-2010	BC107- Malaria Pathogenesis and Burden of Disease
	BIO350- Anti-Coagulants Part 1
	BIO350- Anti-Platelet agents Part 2
	BIO350- Anti-Thrombotic agents Part 3
	BIO365- Parasitology Part 1
	BIO365- Parasitology Part 2
	BIO365- Parasitology Part 3
	BIO365- Parasitology Part 4
	BIO365- Parasitology Part 5
	BIO365- Parasitology Part 6
	BIO365- Parasitology Part 7
2010-2011	BC107- Malaria Pathogenesis and Burden of Disease
	BIO350- Anti-Coagulants Part 1
	BIO350- Anti-Platelet agents Part 2
	BIO350- Anti-Thrombotic agents Part 3
	BIO365- Parasitology Part 1
	BIO365- Parasitology Part 2
	BIO365- Parasitology Part 3
	BIO365- Parasitology Part 4
	BIO365- Parasitology Part 5
	BIO365- Parasitology Part 6
	BIO365- Parasitology Part 7
2011-2012	BC107- Malaria Pathogenesis and Burden of Disease
	BIO365- Parasitology Part 1
	BIO365- Parasitology Part 2

Dr. Kurtis has supervised the independent senior thesis work of 8 Brown undergraduate students. Six of these individuals have received independent funding by university sponsored UTRA awards.

Student	Year	Title of project
Julie Solomon	2000-2001	Expression and purification of rSj67, a vaccine candidate for Schistosomiasis japonica
Brenda Anosike	2001-2002	Expression and purification of rSj22, a vaccine candidate for

		Schistosomiasis japonica
Kristine Treanor	2001-2002	Identification of vaccine candidates for Plasmodium falciparum
Hemal Kanzaria	2002-2003	Environmental Anthropogenic Change and Malarial Transmission in the Highlands of Western Kenya
Linda Wang	2002-2003	Environmental Anthropogenic Change and Malarial Transmission in the Highlands of Western Kenya
Christina Mair	2002-2003	Microspatial distribution of Anophaline mosquitoes is associated with spatial patterns of human infection with Plasmodium falciparum and anemia
Lauren Pischel	2010-2011	Heterogeneity in PfSEP-1 sequences from field isolates- implication for vaccine development
Marie Siwicki	2010-2011	Growth inhibition antibodies targeting PfSEP-1

Dr. Kurtis has served as a reader for the independent senior thesis work of 5 Brown undergraduate students.

Student	Year	Title of project
Anzette Were	2004-2005	Comparison of herbal anti-malarial drugs with conventional western anti-malarial drugs in the treatment of malaria
Sheena Mukkada	2004-2005	Ribonuclease H localization in Trypanosoma brucei
Tereen Alireza	2005-2006	The Relationship Between TNF- α Made in Response to Malaria Specific Antigens And Change in Hemoglobin during a Malaria High Transmission Season
Anna Rothchild	2006-2007	Malaria in an invasive lizard host
Si-Han Hai	2007-2008	Novel function of complement C3d as an autologous T-helper cell target

Dr. Kurtis supervised the rotation work for 5 PhD graduate students (Chris Nixon-2001, Mindy Reynolds- 2002, Johnna Wesley-2002, Mario Jiz-2005, Katie Helfin-2007, Jenna Zuromski-2017, Amanda Ruiz-2018, Janet Joseph-2022) in the Pathobiology Program.

Dr. Kurtis supervised the rotation work for 3 MD/PhD graduate students in the Pathobiology Program (Chris Nixon- 2001, Dylan Dean-2004, Eden Kahle-2004).

Dr. Kurtis served as the thesis mentor for one MD/PhD graduate student in the Pathobiology Program (Chris Nixon-2001-2005).

Dr. Kurtis served as the thesis mentor for one PhD graduate student in the Pathobiology Program (Mario Jiz-2005-2009).

Dr. Kurtis has served as the expert outside reader for the PhD thesis of Dr. Megna Desai who defended and received her PhD from the University of Amsterdam on 16 Oct 03.

Dr. Kurtis has served as the expert outside reader for the PhD thesis of Dr. Dylan Davey who defended and received her PhD from the Yale University 1 Feb 13.

As part of an NIH/Fogarty training grant **1 D43 TW05509-01** “Malaria at the Mother-Child Interface”, Dr. Kurtis has supervised a portion of the post-doctoral work of Dr. Edward Kabyemela, MD from 2003 to present. Dr. Kabyemela is examining the impact of malarial infection on markers of anemia and inflammation in pregnant mothers and their newborn children.

As part of an NIH/Fogarty training grant **1 D43 TW05509-01** “Malaria at the Mother-Child Interface”, Dr. Kurtis has supervised a portion of the post-doctoral work of Dr. Moses Gwamaka, DVM from 2004 to present. Dr. Gwamaka is examining the relationship between maternal inflammation and birth outcomes.

Dr. Kurtis has supervised the post-doctoral work of Dr. Haiwei Wu, MD/PhD from 2001-2003. Dr. Wu’s project examined the relationship between antigen specific cytokine production and resistance to Schistosomiasis japonica.

Dr. Kurtis has supervised a component of the post-doctoral work of Dr. Tjalling Leenstra, MD/PhD from 2002-2003. Dr. Leenstra’s projects examined the role of pubertal development in mediating resistance to malaria infection as well as the role of iron metabolism in malarial anemia.

Dr. Kurtis supervised the post-doctoral work of Dr. Tjalling Leenstra, MD/PhD from 2004-2006. Dr. Leenstra’s project examined the role of altered iron metabolism in mediating schistosomiasis-associated anemia.

Dr. Kurtis supervised the post-doctoral work of Dr. Hannah Coutinho, MD from 2004-2006. Dr. Coutinho’s project examined the impact of schistosomiasis on nutritional measures and liver fibrosis.

Dr. Kurtis was the second reader for the MPH thesis of Priya Mital from 2004-2006.

Dr. Kurtis served as a member of the PhD thesis committee of April Schiflett (PhD 2006). Ms Schiflett’s project examined virulence factors in trypanosomes.

Dr. Kurtis supervised the post-doctoral work of Dr. Valeria Fabre, MD from 2008-2009. Dr. Fabre’s project examines the impact of mechanisms and mediators of schistosomiasis associated fibrosis.

Dr. Kurtis supervised the MPH thesis work of Ashley Sohn from 2009-2010. Ms Sohn’s project examines the role of schistosome induced inflammation in mediating poor birth outcomes.

Dr. Kurtis supervised the MPH summer internship work of Danielle Eskens in 2009. Ms Eskens’ project examine the mechanisms and determinants of fibrosis in *S. japonicum* infection.

Dr. Kurtis served on the PhD thesis committee of Lisa Longato in the Pathobiology Program (2009-2012).

Dr. Kurtis served on the PhD thesis committee of Danielle Gutelius in the Pathobiology Program (2009-2012).

Dr. Kurtis served as the second reader for the MPH thesis of Julia Shaw from 2010-2011.

In 2010, Dr. Kurtis supervised the summer research of Angelique Mole, an undergraduate student participating in an NIH funded Leadership Alliance program.

In 2010, Dr. Kurtis supervised the summer research of Camia Crawford, a medical student studying malaria vaccine development.

Dr. Kurtis served as the expert outside reader for the PhD thesis of Dylan Davey in May 2013 at Yale University.

Dr. Kurtis served as the expert outside reader for the PhD thesis of Henry Driguez in June 2013 at University of Queensland.

Dr. Kurtis served as the expert outside reader for the PhD thesis of Catherine Amy Gordon in April 2014 at University of Queensland.

Dr. Kurtis served on the PhD thesis committee of Jenna Perry at Brown University (2014-2018)

Dr. Kurtis served as the expert outside reader for the PhD thesis of Kosala Weerakoon in July 2018 at University of Queensland.

Dr. Kurtis supervised the post-doctoral work of Dr. Dipak Raj, PhD from 2010-2013. Dr. Raj's projects focused on vaccine development for malaria.

Dr. Kurtis supervised the post-doctoral work of Dr. Alok Das Mohaptra, PhD from 2017-2020. Dr. Das Mohaptra's projects focused on cellular responses to vaccine candidates and mechanisms of parasite apoptosis.

Dr. Kurtis co-supervised the post-doctoral work of Dr. Emily McDonald's, PhD from 2010-2014. Dr. McDonald's projects focused on vaccine development for malaria.

Dr. Kurtis supervises the post-doctoral work of Dr. Tanbir Najrana, PhD from 2020-. Dr. Najrana's projects focus on drug development for malaria.

HOSPITAL TEACHING ROLES

Beginning in 2000, Dr. Kurtis has given 6 formal lectures per year to residents and fellows on topics in Transfusion Medicine as part of their Monday morning didactic sessions.

Beginning in 2002, Dr. Kurtis gives an additional 6 formal lectures in alternate years to residents and fellows on topics in Transfusion Medicine as part of a Transfusion Medicine lecture series.

Dr. Kurtis supervises the Transfusion Medicine /Coagulation clinical rotation for 4-6 Pathology residents and 4-6 Hematology/Oncology fellows per year. This activity includes 2 hours per day of formal didactic teaching with addition time spent in clinical supervision.