

CURRICULUM VITAE
Ernesto T Marques, M.D; Ph.D.
University of Pittsburgh

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Birthplace: Recife, Brazil

Citizenship: American, Brazilian and Portuguese

EDUCATION and TRAINING

Undergraduate

1987 - 1993

Universidade Federal de Pernambuco - UFPE
Recife, Brazil

M.D.
Medicine
Jose Luiz de Lima Filho
Summa cum laude - Top academic performance in the 1993 class

Graduate

1994 - 1999

The Johns Hopkins University
School of Medicine
Baltimore, Maryland

Ph.D.
Pharmacology and Molecular Sciences
Mette Strand, Gerald Hart and Ronald Schnaar

Postgraduate

1993 - 1994

Universidade Federal de Pernambuco - UFPE
Recife, Recife

Anesthesiology
Tereza Maciel

APPOINTMENTS and POSITIONS

Academic

1999 - 2005	School of Medicine The Johns Hopkins University Baltimore, Maryland	Research Faculty Pharmacology and Molecular Sciences
2003 – Present	FIOCRUZ-Pernambuco Fundação Oswaldo Cruz - FIOCRUZ Recife, Brazil	Senior Public Health Scientist Department of Virology and Experimental Therapeutics
2005 - 2009	School of Medicine The Johns Hopkins University Baltimore, Maryland	Assistant Professor Medicine
2009 - Present	Graduate School of Public Health University of Pittsburgh Pittsburgh	Associate Professor Infectious Diseases and Microbiology
2020 - 2022	Institute Alberto Ferreira da Costa at Real Hospital Português de Beneficência de Pernambuco	Volunteer

Non-Academic

1993 - 1994	Pernambuco State Health Secretary Catende, Pernambuco, Brazil	General Medical Practitioner Internal Medicine
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CERTIFICATION and LICENSURE

Medical or Other Professional Licensure

1993 - Present	National Medical Certificate - Brazil National Medical Council - CREMEPE, 10615
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MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES

1995 - Present	Member, The American Society of Tropical Medicine and Hygiene
1995 - Present	Member, Brazilian Society of Biotechnology
2001 - Present	Member, The American Association of Immunologists

HONORS and AWARDS

1988 - 1993	Prize Professor Otavio de Freitas - Best Medical Student at the Universidade Federal de Pernambuco - UFPE Class of 1993. (Among 60 Graduates)
1988 - 1993	Academic Excellence during medical school National Medical

1988 - 1993	Counsel - CREMEPE Undergraduate Research Scholarship (Conselho Nacional de Pesquisa e Desenvolvimento – CNPq)
1992	Honor's Certificate Associação Brasileira de Química - ABQ
1994 - 1999	Advance Scientific Education Scholarship (Coordenação de Aperfeiçoamento de Pessoal de Nível Superior-CAPES)
2012	Pittsburgh Magazine Best Doctors April, 2014. 10 Ways Pittsburgh's Medical Community is Changing the World

PUBLICATIONS

Peer-reviewed Publications

1. **Marques E T**, Netto FA, Filho JL. A Low-cost Oxygen Meter. *Biochemical Education*. 1991 Mar; 19 (2):77-78.
2. **Marques Jr E T A**, Lima Filho JL. Ascorbic acid biosensor using ascorbate oxidase immobilized on alkylamine glass beads. *Applied Biochemistry and Biotechnology*. 1992; 32:73-78. PMID: 1416950.
3. Parente AH, **Marques ET**, Azevedo WM, Diniz FB, Melo EH, Lima Filho JL. Glucose biosensor using glucose oxidase immobilized in polyaniline. *Applied biochemistry and biotechnology*. 1992 Dec; 37 (3):267-73. PMID: 1303064.
4. Marques ID, **Marques ETA**, Silva AC, Ledingham WM. Ascorbic acid determination in biological fluids using ascorbate oxidase immobilized on alkylamine glass beads in a flow injection potentiometric system. *Applied Biochemistry and Biotechnology*. 1994 Jan; 44 (1):81-89.
5. Nadruz W Jr, **Marques ET**, Azevedo WM, Lima-Filho JL, Carvalho LB Jr. Immobilization of xanthine oxidase on a polyaniline silicone support. *Brazilian journal of medical and biological research = Revista brasileira de pesquisas médicas e biológicas / Sociedade Brasileira de Biofísica ... [et al.]*. 1996 Mar; 29 (3):347-50. PMID: 8736128.
6. **Marques ET**, Weiss JB, Strand M. Molecular characterization of a fucosyltransferase encoded by *Schistosoma mansoni*. *Molecular and biochemical parasitology*. 1998 Jun 1; 93 (2):237-50. PMID: 9662708.
7. **Marques ET**, Ichikawa Y, Strand M, August JT, Hart GW, Schnaar RL. Fucosyltransferases in *Schistosoma mansoni* development. *Glycobiology*. 2001 Mar; 11 (3):249-59. PMID: 11320063.
8. Raviprakash K, **Marques E**, Ewing D, Lu Y, Phillips I, Porter KR, Kochel TJ, August TJ, Hayes CG, Murphy GS. Synergistic neutralizing antibody response to a dengue virus type 2 DNA vaccine by incorporation of lysosome-associated

membrane protein sequences and use of plasmid expressing GM-CSF. *Virology*. 2001 Nov 10; 290 (1):74-82. PMID: 11883007.

9. Nascimento E, **Marques E T**, Leao IC, Pereira VR, Gomes YM, Chikhlikar PR, August JT, Lucena-Silva N. Protective immunity of single and multi-antigen DNA vaccines against schistosomiasis. *Memorias do Instituto Oswaldo Cruz*. 2002; 97 (1):105-109. PMID: 12426603.
10. Akasaki K, Nakamura N, Tsukui N, Yokota S, Katoh R, MICHIHARA, A, Tsuji H, **Marques E T A**, August JT. Biochemical characterization and immunohistochemical localization of a lysosomal membrane glycoprotein, TSC403/DC-LAMP, enriched in the lung and lymphatic tissues. *Seikagaku*. 2003; 75 (8):942.
11. Lu Y, Raviprakash K, Leao IC, Chikhlikar PR, Ewing D, Anwar A, Chougnet C, Murphy G, Hayes CG, August TJ, **Marques ET**. Dengue 2 PreM-E/LAMP chimera targeted to the MHC class II compartment elicits long-lasting neutralizing antibodies. *Vaccine*. 2003 May 16; 21:2178-89. PMID: 12706709.
12. **Marques ET**, Chikhlikar P, de Arruda LB, Leao IC, Lu Y, Wong J, Chen JS, Byrne B, August JT. HIV-1 p55Gag encoded in the lysosome-associated membrane protein-1 as a DNA plasmid vaccine chimera is highly expressed, traffics to the major histocompatibility class II compartment, and elicits enhanced immune responses. *The Journal of biological chemistry*. 2003 Sep 26; 278 (39):37926-36. PMID: 12824194.
13. de Arruda LB, Chikhlikar PR, August JT, **Marques ET**. DNA vaccine encoding human immunodeficiency virus-1 Gag, targeted to the major histocompatibility complex II compartment by lysosomal-associated membrane protein, elicits enhanced long-term memory response. *Immunology*. 2004 May; 112 (1):126-33. PMID: 15129672. PMCID: PMC1782456.
14. Akasaki K, Nakamura N, Tsukui N, Yokota S, Murata S, Katoh R, Michihara A, Tsuji H, **Marques ET**, August JT. Human dendritic cell lysosome-associated membrane protein expressed in lung type II pneumocytes. *Archives of biochemistry and biophysics*. 2004 May 15; 425 (2):147-57. PMID: 15111122.
15. Chikhlikar P, Barros de Arruda L, Agrawal S, Byrne B, Guggino W, August JT, **Marques ET**. Inverted terminal repeat sequences of adeno-associated virus enhance the antibody and CD8(+) responses to a HIV-1 p55Gag/LAMP DNA vaccine chimera. *Virology*. 2004 Jun 1; 323 (2):220-32. PMID: 15193918.
16. Anwar A, Chandrasekaran A, Ng ML, **Marques E**, August JT. West Nile premembrane-envelope genetic vaccine encoded as a chimera containing the transmembrane and cytoplasmic domains of a lysosome-associated membrane protein: increased cellular concentration of the transgene product, targeting to the

MHC II co. *Virology*. 2005 Feb 5; 332 (1):66-77. PMID: 15661141.

17. Chikhlikar P, Barros de Arruda L, Maciel M, Silvera P, Lewis MG, August JT, **Marques ET**. DNA encoding an HIV-1 Gag/human lysosome-associated membrane protein-1 chimera elicits a broad cellular and humoral immune response in Rhesus macaques. *PLoS one*. 2006; 1:e135. PMCID: PMC1762437. PMID: 17205139.
18. Gupta V, Tabiin TM, Sun K, Chandrasekaran A, Anwar A, Yang K, Chikhlikar P, Salmon J, Brusica V, **Marques ET**, Kellathur SN, August TJ. SARS coronavirus nucleocapsid immunodominant T-cell epitope cluster is common to both exogenous recombinant and endogenous DNA-encoded immunogens. *Virology*. 2006 Mar 30; 347 (1):127-39. PMID: 16387339.
19. Braga-Neto UM, **Marques ET**. From functional genomics to functional immunomics: new challenges, old problems, big rewards. *PLoS computational biology*. 2006 Jul 28; 2 (7):e81. PMCID: PMC1523295. PMID: 16863395.
20. Arruda LB, Sim D, Chikhlikar PR, Maciel M Jr, Akasaki K, August JT, **Marques ET**. Dendritic cell-lysosomal-associated membrane protein (LAMP) and LAMP-1-HIV-1 gag chimeras have distinct cellular trafficking pathways and prime T and B cell responses to a diverse repertoire of epitopes. *Journal of immunology (Baltimore, Md. : 1950)*. 2006 Aug 15; 177 (4):2265-75. PMID: 16887987.
21. Khan AM, Miotto O, Heiny AT, Salmon J, Srinivasan KN, Nascimento EJ, **Marques ET**, Brusica V, Tan TW, August JT. A systematic bioinformatics approach for selection of epitope-based vaccine targets. *Cellular immunology*. 2006 Dec; 244 (2):141-7. PMCID: PMC2041846. PMID: 17434154.
22. Moreira KA, Chaves AC, **Marques E T A**, Prazeres DM, Azevedo WM, Porto AL, Lima Filho JL. Extraction of dengue 2 plasmid DNA vaccine (pD2) from cell lysates by aqueous two-phase systems. *Biotechnology*. 2007; 6:520-526.
23. Gomes AL, Silva AM, Cordeiro MT, Guimarães GF, **Marques ET**, Abath FG. Single-tube nested PCR using immobilized internal primers for the identification of dengue virus serotypes. *Journal of virological methods*. 2007 Oct; 145 (1):76-9. PMCID: PMC1993823. PMID: 17573132.
24. Cordeiro MT, Silva AM, Brito CA, Nascimento EJ, Magalhães MC, Guimarães GF, Lucena-Silva N, de Carvalho EM, **Marques ET**. Characterization of a dengue patient cohort in Recife, Brazil. *The American journal of tropical medicine and hygiene*. 2007 Dec; 77 (6):1128-34. PMID: 18165535.
25. Khan AM, Miotto O, Nascimento EJ, Srinivasan KN, Heiny AT, Zhang GL, **Marques ET**, Tan TW, Brusica V, Salmon J, August JT. Conservation and variability of dengue virus proteins: implications for vaccine design. *PLoS neglected tropical*

- diseases. 2008; 2 (8):e272. PMCID: PMC2491585. PMID: 18698358.
26. Acioli-Santos B, Segat L, Dhalia R, Brito CA, Braga-Neto UM, **Marques ET**, Crovella S. MBL2 gene polymorphisms protect against development of thrombocytopenia associated with severe dengue phenotype. *Human immunology*. 2008 Feb; 69 (2):122-8. PMID: 18361938.
 27. **Marques ET**, Maciel Filho R, August PN. Overcoming health inequity: potential benefits of a patient-centered open-source public health infrastructure. *Cadernos de saúde pública*. 2008 Mar; 24 (3):547-57. PMID: 18327442.
 28. Maciel M Jr, Kellathur SN, Chikhlikar P, Dhalia R, Sidney J, Sette A, August TJ, **Marques ET**. Comprehensive analysis of T cell epitope discovery strategies using 17DD yellow fever virus structural proteins and BALB/c (H2d) mice model. *Virology*. 2008 Aug 15; 378 (1):105-17. PMCID: PMC2615555. PMID: 18579176.
 29. Rosati M, Valentin A, Jalah R, Patel V, von Gegerfelt A, Bergamaschi C, Alicea C, Weiss D, Treece J, Pal R, Markham PD, **Marques ET**, August JT, Khan A, Draghia-Akli R, Felber BK, Pavlakis GN. Increased immune responses in rhesus macaques by DNA vaccination combined with electroporation. *Vaccine*. 2008 Sep 19; 26 (40):5223-9. PMID: 18468743.
 30. Nascimento EJ, Braga-Neto U, Calzavara-Silva CE, Gomes AL, Abath FG, Brito CA, Cordeiro MT, Silva AM, Magalhães C, Andrade R, Gil LH, **Marques ET**. Gene expression profiling during early acute febrile stage of dengue infection can predict the disease outcome. *PloS one*. 2009; 4 (11):e7892. PMCID: PMC2775946. PMID: 19936257.
 31. da Silva AN, Nascimento EJ, Cordeiro MT, Gil LH, Abath FG, Montenegro SM, **Marques ET**. Identification of continuous human B-cell epitopes in the envelope glycoprotein of dengue virus type 3 (DENV-3). *PloS one*. 2009; 4 (10):e7425. PMCID: PMC2760205. PMID: 19826631.
 32. Nascimento EJ, Silva AM, Cordeiro MT, Brito CA, Gil LH, Braga-Neto U, Marques ET. Alternative complement pathway deregulation is correlated with dengue severity. *PloS one*. 2009; 4 (8):e6782. PMCID: PMC2728508. PMID: 19707565.
 33. Cordeiro MT, Braga-Neto U, Nogueira RM, **Marques ET**. Reliable classifier to differentiate primary and secondary acute dengue infection based on IgG ELISA. *PloS one*. 2009; 4 (4):e4945. PMCID: PMC2660412. PMID: 19340301.
 34. Valentin A, Chikhlikar P, Patel V, Rosati M, Maciel M, Chang KH, Silvera P, Felber BK, Pavlakis GN, August JT, **Marques ET**. Comparison of DNA vaccines producing HIV-1 Gag and LAMP/Gag chimera in rhesus macaques reveals antigen-specific T-cell responses with distinct phenotypes. *Vaccine*. 2009 Jul 30; 27 (35):4840-9. PMCID: PMC2743166. PMID: 19539586.

35. Lemos RR, Castelletti CH, Lima Filho JL, **Marques ET**, Oliveira JR. In silico identification of new genetic variations as potential risk factors for Alzheimer's disease in a microarray-oriented simulation. *Journal of molecular neuroscience* : MN. 2009 Sep; 39:242-7. PMID: 19290494.
36. Yang K, Sun K, Srinivasan KN, Salmon J, **Marques ET**, Xu J, August JT. Immune responses to T-cell epitopes of SARS CoV-N protein are enhanced by N immunization with a chimera of lysosome-associated membrane protein. *Gene therapy*. 2009 Nov; 16 (11):1353-62. PMID: 19727132.
37. Calzavara-Silva CE, Gomes AL, Maia RC, Acioli-Santos B, Gil LH, **Marques ET**. Early molecular markers predictive of dengue hemorrhagic fever. *Anais da Academia Brasileira de Ciências*. 2009 Dec; 81 (4):671-7. PMID: 19893893.
38. Dhalia R, Maciel M Jr, Cruz FS, Viana IF, Palma ML, August T, **Marques ET**. Membrane and envelope virus proteins co-expressed as lysosome associated membrane protein (LAMP) fused antigens: a potential tool to develop DNA vaccines against flaviviruses. *Anais da Academia Brasileira de Ciências*. 2009 Dec; 81 (4):663-9. PMID: 19893892.
39. Gomes AL, Wee LJ, Khan AM, Gil LH, **Marques ET**, Calzavara-Silva CE, Tan TW. Classification of dengue fever patients based on gene expression data using support vector machines. *PloS one*. 2010; 5 (6):e11267. PMCID: PMC2890409. PMID: 20585645.
40. Tan PT, Heiny AT, Miotto O, Salmon J, **Marques ET**, Lemonnier F, August JT. Conservation and diversity of influenza A H1N1 HLA-restricted T cell epitope candidates for epitope-based vaccines. *PloS one*. 2010; 5 (1):e8754. PMCID: PMC2807450. PMID: 20090904.
41. Simon GG, Hu Y, Khan AM, Zhou J, Salmon J, Chikhlikar PR, Jung KO, **Marques ET**, August JT. Dendritic cell mediated delivery of plasmid DNA encoding LAMP/HIV-1 Gag fusion immunogen enhances T cell epitope responses in HLA DR4 transgenic mice. *PloS one*. 2010; 5 (1):e8574. PMCID: PMC2797323. PMID: 20052293.
42. Braga C, Luna CF, Martelli CM, de Souza WV, Cordeiro MT, Alexander N, de Albuquerque Mde F, Júnior JC, **Marques ET**. Seroprevalence and risk factors for dengue infection in socio-economically distinct areas of Recife, Brazil. *Acta tropica*. 2010 Mar; 113 (3):234-40. PMID: 19896921.
43. Guedes DR, Cordeiro MT, Melo-Santos MA, Magalhaes T, **Marques E**, Regis L, Furtado AF, Ayres CF. Patient-based dengue virus surveillance in *Aedes aegypti* from Recife, Brazil. *Journal of vector borne diseases*. 2010 Jun; 47 (2):67-75. PMID: 20539043.

44. Rigato PO, Maciel M Jr, Goldoni AL, Piubelli O, de Brito CA, Fusaro AE, Eurico de Alencar LX, August T, **Azevedo Marques ET**, da Silva Duarte AJ, Sato MN. Immunization of neonatal mice with LAMP/p55 HIV gag DNA elicits robust immune responses that last to adulthood. *Virology*. 2010 Oct 10; 406 (1):37-47. PMID: 20667577.
45. Lund O, Nascimento EJ, Maciel M Jr, Nielsen M, Larsen MV, Lundegaard C, Harndahl M, Lamberth K, Buus S, Salmon J, August TJ, **Marques ET**. Human leukocyte antigen (HLA) class I restricted epitope discovery in yellow fever and dengue viruses: importance of HLA binding strength. *PloS one*. 2011; 6 (10):e26494. PMCID: PMC3198402. PMID: 22039500.
46. Rodriguez-Barraquer I, Cordeiro MT, Braga C, de Souza WV, **Marques ET**, Cummings DA. From re-emergence to hyperendemicity: the natural history of the dengue epidemic in Brazil. *PLoS neglected tropical diseases*. 2011; 5 (1):e935. PMCID: PMC3014978. PMID: 21245922.
47. Goldoni AL, Maciel M Jr, Rigato PO, Piubelli O, de Brito CA, Melo A, **Marques ET**, August JT, Duarte AJ, Sato MN. Mucosal and systemic anti-GAG immunity induced by neonatal immunization with HIV LAMP/gag DNA vaccine in mice. *Immunobiology*. 2011 Apr; 216 (4):505-12. PMID: 20870310.
48. de Melo AB, da Silva Mda P, Magalhães MC, Gonzales Gil LH, Freese de Carvalho EM, Braga-Neto UM, Bertani GR, **Marques ET**, Cordeiro MT. Description of a prospective 17DD yellow fever vaccine cohort in Recife, Brazil. *The American journal of tropical medicine and hygiene*. 2011 Oct; 85 (4):739-47. PMCID: PMC3183786. PMID: 21976581.
49. Rigato PO, Maciel M Jr, Goldoni AL, Piubelli OG, Orii NM, **Marques ET**, August JT, Duarte AJ, Sato MN. Maternal LAMP/p55gagHIV-1 DNA immunization induces in utero priming and a long-lasting immune response in vaccinated neonates. *PloS one*. 2012; 7 (2):e31608. PMCID: PMC3280311. PMID: 22355381.
50. Rust NM, Papa MP, Scovino AM, da Silva MM, Calzavara-Silva CE, **Marques ET** Jr, Peçanha LM, Scharfstein J, Arruda LB. Bradykinin enhances Sindbis virus infection in human brain microvascular endothelial cells. *Virology*. 2012 Jan 5; 422 (1):81-91. PMID: 22047990.
51. McCormick KD, Liu S, Jacobs JL, **Marques ET**, Sluis-Cremer N, Wang T. Development of a robust cytopathic effect-based high-throughput screening assay to identify novel inhibitors of dengue virus. *Antimicrobial agents and chemotherapy*. 2012 Jun; 56 (6):3399-401. PMCID: PMC3370735. PMID: 22391547.
52. Jung KO, Khan AM, Tan BY, Hu Y, Simon GG, Nascimento EJ, Lemonnier F, Brusica V, Miotto O, Tan TW, **Marques ET**, Dhali R, Salmon J, August JT. West

- Nile virus T-cell ligand sequences shared with other flaviviruses: a multitude of variant sequences as potential altered peptide ligands. *Journal of virology*. 2012 Jul; 86 (14):7616-24. PMID: 22573867. PMCID: PMC3416302.
53. Carvalho-Leandro D, Ayres CF, Guedes DR, Suesdek L, Melo-Santos MA, Oliveira CF, Cordeiro MT, Regis LN, **Marques ET**, Gil LH, Magalhaes T. Immune transcript variations among *Aedes aegypti* populations with distinct susceptibility to dengue virus serotype 2. *Acta tropica*. 2012 Nov; 124 (2):113-9. PMID: 22877626.
 54. Xavier Eurico de Alencar L, de Mendonça Braga-Neto U, José Moura do Nascimento E, Tenório Cordeiro M, Maria Silva A, Alexandre Antunes de Brito C, da Silva Mda P, Gil LH, Montenegro SM, **Marques ET**. HLA-B*44 Is Associated with Dengue Severity Caused by DENV-3 in a Brazilian Population. *Journal of tropical medicine*. 2013; 2013:648475. PMID: 23818909. PMCID: PMC3684019.
 55. de Melo AB, Nascimento EJ, Braga-Neto U, Dhalia R, Silva AM, Oelke M, Schneck JP, Sidney J, Sette A, Montenegro SM, **Marques ET**. T-cell memory responses elicited by yellow fever vaccine are targeted to overlapping epitopes containing multiple HLA-I and -II binding motifs. *PLoS neglected tropical diseases*. 2013; 7 (1):e1938. PMID: 23383350. PMCID: PMC3561163.
 56. Jaenisch T, IDAMS (**Ernesto T. A. Marques**), Sakuntabhai A, DENFREE, Wilder-Smith A, DengueTools. Dengue research funded by the European Commission-scientific strategies of three European dengue research consortia. *PLoS Neglected Tropical Diseases*. 2013; 7 (12):e2320. PMID: 24349584. PMCID: PMC3861113.
 57. Garcia-Bates TM, Cordeiro MT, Nascimento EJ, Smith AP, Soares de Melo KM, McBurney SP, Evans JD, **Marques ET**, Barratt-Boyes SM. Association between magnitude of the virus-specific plasmablast response and disease severity in dengue patients. *Journal of immunology (Baltimore, Md. : 1950)*. 2013 Jan 1; 190 (1):80-7. PMID: 23203929. PMCID: PMC3529775.
 58. Carter DM, Bloom CE, Nascimento EJ, **Marques ET**, Craigo JK, Cherry JL, Lipman DJ, Ross TM. Sequential seasonal H1N1 influenza virus infections protect ferrets against novel 2009 H1N1 influenza virus. *Journal of virology*. 2013 Feb; 87 (3):1400-10. PMID: 23115287. PMCID: PMC3554183.
 59. Queiroz SR, Silva AN, Santos JJ, **Marques ET**, Bertani GR, Gil LH. Construction of yellow fever virus subgenomic replicons by yeast-based homologous recombination cloning technique. *Anais da Academia Brasileira de Ciências*. 2013 Mar; 85 (1):159-68. PMID: 23460439.
 60. Homma A, Tanuri A, Duarte AJ, **Marques E**, de Almeida A, Martins R, Silva-Junior JB, Possas C. Vaccine research, development, and innovation in Brazil: a translational science perspective. *Vaccine*. 2013 Apr 18; 31:B54-60. PMID: 23598493.

61. Castanha PM, Cordeiro MT, Martelli CM, Souza WV, **Marques ET** Jr, Braga C. Force of infection of dengue serotypes in a population-based study in the northeast of Brazil. *Epidemiology and Infection*. 2013 May; 141 (5):1080-8. PMID: 22800513.
62. Viana IF, Soares TA, Lima LF, **Marques E T A**, Krieger M, Dhalia R, Lins RD. De novo design of immunoreactive conformation-specific HIV-1 epitopes based on Top7 scaffold. *RSC Advances*. 2013 May 14; 3:11790.
63. Pastor AF, Rodrigues Moura L, Neto JW, Nascimento EJ, Calzavara-Silva CE, Gomes AL, Silva AM, Cordeiro MT, Braga-Neto U, Crovella S, Gil LH, **Marques ET**, Acioli-Santos B. Complement factor H gene (CFH) polymorphisms C-257T, G257A and haplotypes are associated with protection against severe dengue phenotype, possible related with high CFH expression. *Human Immunology*. 2013 Jun 6. PMID: 23747994.
64. Silva MM, Gil LH, **Marques ET**, Calzavara-Silva CE. Potential biomarkers for the clinical prognosis of severe dengue. *Memorias Do Instituto Oswaldo Cruz*. 2013 Sep; 108 (6):755-762. PMID: 24037198.
65. Douradinha B, Reis V, Rogers M, Torres F, Evans J, **Marques E**. Novel insights in genetic transformation of the probiotic yeast *Saccharomyces boulardii*. *Bioengineered*. 2013 Sep 5; 5 (1). PMID: 24013355.
66. Nascimento E, Mailliard R, Khan A, Sidney J, Sette A, Guzman N, Paulaitis M, Melo A, Cordeiro M, Gil L, Lemonnier F, Rinaldo CR, August J, **Marques E T A**. Identification of Conserved and HLA Promiscuous DENV3 T-Cell Epitopes. *PLoS neglected tropical diseases*. 2013 Oct 10; 7 (10):e2497.
67. Santos JJ, Cordeiro MT, Bertani GR, **Marques ET**, Gil LH. Construction and characterisation of a complete reverse genetics system of dengue virus type 3. *Memorias Do Instituto Oswaldo Cruz*. 2013 Oct 11; 108 (8):983-991. PMID: 24402142.
68. Isabelle F. Viana, Rafael Dhalia, Marco A. Krieger, **Ernesto T. Marques**, Roberto D. Lins Influence of Scaffold Stability and Electrostatics on Top7-Based Engineered Helical HIV-1 Epitopes. In, *Advances in Bioinformatics and Computational Biology Volume 8213 LNBI*, 2013. 8th Brazilian Symposium on Bioinformatics, BSB 2013; Code 100552; 2013 Nov 3-7; Recife; Brazil; Springer International Publishing, 2013 Nov 1. p.94-103 doi: 10.1007/978-3-319-02624-4_9.
69. Douradinha B, McBurney SP, Melo KM, Smith AP, Krishna NK, Barratt-Boyes SM, Evans JD, Nascimento EJ, Jr ET. C1q binding to Dengue Virus decreases levels of infection and inflammatory molecules transcription in THP-1 cells. *Virus Research*. 2013 Nov 15. PMID: 24246304.

70. Mailliard R, Smith KN, Fecek RJ, Rappocciolo G, Nascimento E, **Marques E T A**, Watkins SC, Mullins JI, Rinaldo CR. Selective Induction of CTL helper rather than killer activity by natural epitope variants promotes dendritic cell-mediated HIV-1 dissemination. *Journal of Immunology*. PMID: 23913962.
71. Nascimento EJ, Hottz ED, Garcia-Bates TM, Bozza F, **Marques ET**, Barratt-Boyes SM. Emerging concepts in dengue pathogenesis: interplay between plasmablasts, platelets, and complement in triggering vasculopathy. *Critical Reviews in Immunology*. 2014; 34 (3):227-40. PMID: 24941075.
72. van Panhuis WG, Hyun S, Blaney K, **Marques ET**, Coelho GE, Siqueira JB Jr, Tibshirani R, da Silva JB Jr, Rosenfeld R. Risk of Dengue for Tourists and Teams during the World Cup 2014 in Brazil. *PLoS Neglected Tropical Diseases*. 2014; 8 (7):e3063. PMCID: PMC4120682. PMID: 25079960.
73. Godinho RM, Matassoli FL, Lucas CG, Rigato PO, Gonçalves JL, Sato MN, Maciel M Jr, Peçanha LM, August JT, **Marques ET**, de Arruda LB. Regulation of HIV-Gag expression and targeting to the endolysosomal/secretory pathway by the luminal domain of lysosomal-associated membrane protein (LAMP-1) enhance Gag-specific immune response. *PloS One*. 2014; 9 (6):e99887. PMCID: PMC4059647. PMID: 24932692.
74. Batista TM, **Marques ET**, Franco GR, Douradinha B. Draft Genome Sequence of the Probiotic Yeast *Saccharomyces cerevisiae* var. *boulardii* Strain ATCC MYA-796. *Genome Announcements*. 2014; 2 (6). PMID: 25523784. doi: 10.1128/genomeA.01345-14.
75. Piazza P, Campbell D, **Marques E**, Hildebrand WH, Buchli R, Mailliard R, Rinaldo CR. Dengue virus infected human dendritic cells reveal hierarchies of naturally expressed novel NS3 CD8 T cell epitopes. *Clinical and Experimental Immunology*. 2014 May 12. PMID: 24816171.
76. Silva MM, Dias AC, Cordeiro MT, **Marques E**, Goulart MO, Dutra RF. A thiophene-modified screen printed electrode for detection of dengue virus NS1 protein. *Talanta*. 2014 Oct; 128:505-10. PMID: 25059193.
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Books, Book Chapters, Monographs

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3. Book Chapter- History of the 70 years of the Institute Aggeu Magalhaes (IAM)– Fiocruz – Pernambuco- Contributions of the IAM to arboviral research
4. **Marques, ET.** Panorama Geral da Pandemia Covid-19. In: MEDEIROS, Mauricio Zuma; FIALHO, Beatriz de Castro; SOARES, Priscila Ferraz; LACERDA, Daniel Pacheco (org.). *A primeira vacina 100% brasileira contra a Covid-19: a conquista de Bio-Manguinhos/Fiocruz*. Rio de Janeiro: Fundação Oswaldo Cruz/Bio-Manguinhos, 2022. p. 23-49.. ISBN: 978-65-89887-01-0
5. **Marques, ET.** Herpesvirus infections in the human brain: a neural cell model of the complement system derived from induced pluripotent stem cells. In: Savitz, J and Yolken, R. *Microorganisms and Mental Health, Current Topics in Behavioral Neurosciences*. 2022 Springer Nature

Published Abstracts (20 Selected)

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Societies (FOCIS); Federat Clin Immunol Soc, Immunology 2004. 2004 Jul 18-23 ; Montreal, Canada MEDIMOND, 2004. 165-169.

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3. Piazza P, Campbell DM, Mailliard R, Marques E, Hildebrand WH, Buchli R, Rinaldo CR. Dengue NS3 Protein Elicits Heterotypic CD8 Memory T Cell Responses To Dominant and Sub-Dominant Epitopes [abstract]. 2013 May 29-Jun 1; Dubrovnik, Croatia.
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5. Goldoni AL, Maciel M, Rigato PO, Marques E T A. HIV Chimeric Lamp/Gag Vaccine Induces Mucosal and Systemic Immunity in Neonatal Mice [abstract]. Aids Research And Human Retroviruses. 2008; 24:85-85.
6. Rigato P, Goldoni AL, Marques E T A. Effect Of Maternal Immunization With The Dna Chimeric Vaccine Lamp/Gag Of Hiv-1 In The Neonatal Immune Dna Vaccine Response [abstract]. Aids Research And Human Retroviruses. 2008; 24:143-144.
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 15. Goldoni A, Maciel M, Rigato P, Piubelli O, Brito C, Fusaro A, Noemia O, August JT, Marques E T H, Duarte AJ, Sato M. Enhanced CD4+ and CD8+ T Cell Responses Followed HIV DNA Lamp/gag Vaccination in Mice During Early Phase of Life [abstract]. *Clinical Immunology*. 2009 Dec 31; 131:S83.
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 18. High levels of exposure of Zika and Dengue infections detected using plaque reduction neutralization assay in Brazil CMT Martelli, P Castanha, F Cortes, L Rodrigues, ET Marques, M Eder *International Journal of Infectious Diseases* 53, 15 2016
 19. Arbovirus epidemiology in pregnant women in Pernambuco state, Brazil M Eder, LC Bezerra, FS Outtes, GS Dimech, RA Ximenes, R Dhalia, ... *International Journal of Infectious Diseases* 53, 14 2016
 20. Priscila Mayrelle da Silva Castanha, Parichat Duangkhae, Geza Erdos, Simon C Watkins, Louis D Falo Jr, Ernesto T Marques Jr, Simon M Barratt-Boye Preexisting

Immunity Enhances Recruitment And Infection Of Myeloid Cells With Dengue And Zika Viruses In Human Skin American Journal Of Tropical Medicine And Hygiene 101, 419-41

Other Publications

1. Identification of Schistosoma mansoni Fucosyltransferase and their evaluation as therapeutic targets Johns Hopkins University.
2. Mooney G, O'Donnell O, Arber S, Carr-Hill R, Mkandawire T, Sommerfeld J, Thompson R, Marques E T A, Sadana R, Almeida C, Romero RV WHO/TDR/UNRISD Bulletin Equitable access to health care and infectious disease control: Concepts, measurement and interventions. UNRISD/CN19/07/3 ISSN 1020-8054 2007.

RESEARCH

Current research support

Title of Grant: Effect of COVID-19 vaccine in HIV-1 infected and uninfected men and women in the MWCCS
Principal Investigator:PI Rinaldo; Charles
Role on Grant: Co-I
Years Inclusive: 2021 – 2025
Total Budget: \$ 3,500.00

Funding Agency: NIH NOT-OD-21-071(Supplement)
Title of Grant: The maternal hypothalamic-pituitary-PLACENTA axis as a source of biomarkers to quantify and connect race, the COVID-19 prenatal environment and postnatal maternal health and well-being
Principal Investigator: Jennifer Adibi;
Role on Grant: Co-I
Years Inclusive: 2021 – 2022
Total Budget: \$ 500.00

Funding Agency: NIH, Supplement MWCCS (I)
Title of Grant: Kinetics of COVID-19 vaccine antibody responses in People with HIV
Principal Investigator: Rinaldo
Role on Grant: Co-PI
Years Inclusive: 2020/2021

Funding Agency: NIH, Supplement MWCCS (II)
Title of Grant: Kinetics of COVID-19 vaccine antibody responses in People with HIV

Principal Investigator: Rinaldo
 Role on Grant: Co-PI
 Years Inclusive: 2020/2021

Pending research support

None

Past research support

Funding Agency:	ETS Pitt School of Medicine	ETS Pitt School of Medicine
Title of Grant:	Diagnosis of COVID19 clinical outcomes	Diagnosis of COVID19 clinical outcomes
Principal Investigator:	Marques	Marques
Role on Grant:	PI	PI
Years Inclusive:	2020/2021	2020/2021

Funding Agency:	NIH	NIH
Grant Number:	DAIDS-ES ID: 38749	DAIDS-ES ID: 38749
Title of Grant:	NIAID, NIH, CoVPN 5002 SARS-CoV-2 Prevalence Study (CoVPN),	NIAID, NIH, CoVPN 5002 SARS-CoV-2 Prevalence Study (CoVPN),
Years Inclusive:	2020-2021	2020-2021
Role on Grant:	Co-Investigator	Co-Investigator
Percent Effort:	20%	20%
Total Budget:	\$2,168,833.00	\$2,168,833.00

Funding Agency:	NIH, Supplement MWCCS	NIH, Supplement MWCCS
Title of grant:	COVID-19 Seroprevalence Study in people with HIV	COVID-19 Seroprevalence Study in people with HIV
Principal Investigator:	Rinaldo	Rinaldo
Role on Grant:	Co-Investigator	Co-Investigator
Years Inclusive:	2020/2021	2020/2021

Funding Agency:	NIH	NIH
Title of Grant:	Development of a Novel, Sensitive ZIKV-Specific Serologic diagnostic Assay Utilizing Biologically Inspired Synthetic Molecules	Development of a Novel, Sensitive ZIKV-Specific Serologic diagnostic Assay Utilizing Biologically Inspired Synthetic Molecules
Principal Investigator:	Donald Burke	Donald Burke
Marques Role on Grant:	Co-Investigator	Co-Investigator
Years Inclusive:	2016 - 2020	2016 - 2020

Funding Agency:	European Union	European Union
Title of Grant:	Zika Alliance	Zika Alliance
Principal Investigator:	Jens Groll	Jens Groll
Role on Grant:	Brazil-PI	Brazil-PI
Years Inclusive:	2016 - 2019	2016 - 2019

Funding Agency: NIH-FIOCRUZ
 Title of Grant: Zika in Infants and Pregnancy –ZIP
 Principal Investigator: Cristiana Cassette – Administrative Grant
 Marques Role on Grant: Recife-PI
 Years Inclusive: 2016 – 2019

Funding Agency: NIH-FIOCRUZ
 Title of Grant: Zika in infants –ZIP 2.0
 Principal Investigator: Cristiana Cassette – Administrative Grant
 Marques Role on Grant: Recife-PI
 Years Inclusive: 2019 – 2025

Funding Agency: NIH-Butatan
 Title of Grant: Phase III Dengue Vaccine Study
 Principal Investigator: Jorge Kalil
 Marques Role on Grant: Recife-PI
 Years Inclusive: 2016 – 2021

Funding Agency: NIH-R21
 Title of Grant: Zika virus urogenital tropism, pathogenesis and sexual transmission
 Principal Investigator: Brian Foy -
 Role on Grant: Recife-PI
 Years Inclusive: 2016 – 2018

Funding Agency: WHO
 Title of Grant: Persistence of Zika virus in body fluids of patients with Zika virus infection - ZIKABRA
 Principal Investigator: Edna Kara -
 Role on Grant: Recife-Co-I
 Years Inclusive: 2016 – 2018

Funding Agency: Cura Zika - PITT
 Title of Grant: Development of Zika diagnostic markers of recent infection
 Principal Investigator: Ernesto Marques
 Role on Grant: PI
 Years Inclusive: 2016 – 2017

Funding Agency: Sanofi Pasteur
 Title of Grant: Development of a Specific Assay for Detection of Anti-Dengue NS1
 Principal Investigator: Ernesto Marques
 Role on Grant: PI (sole)

Years Inclusive: 1/1/2015 - 8/31/2016
 Percent Effort: 40.0 %
 Total Amount Awarded: \$442,689

Funding Agency: NIH-CNPq
 Grant Number: PA-14-328: Administrative Supplements for U.S. - Brazil
 Biomedical Collaborative Research
 Title of Grant: Identification, characterization and modeling of peptoids
 mimicking epitope-structures with high affinity to HIV-1 pan-
 neutralizing antibodies: Towards a new class of vaccine
 antigens.

Principal Investigator: Charles Rinaldo
 Marques Role on Grant: Co-Investigator
 Years Inclusive: 5/1/2015 - 4/30/2016
 Percent Effort: 5.0 %
 Total Amount Awarded: \$154,000

Funding Agency: CNPq
 Title of Grant: Development of tools for surveillance and control of dengue
 Principal Investigator: Ernesto Marques
 Marques Role on Grant: PI (sole)
 Years Inclusive: 2015 - 2016
 Total Direct Costs: \$25,000

Funding Agency: FACEPE
 Grant Number: APQ-0302-4.01/13
 Title of Grant: Prospective study of acute febrile cases for identification of
 clinical signs, virological genetic factors and host
 immunological factors predictive of severe dengue

Principal Investigator: Ernesto
 Role on Grant: PI (sole)
 Years Inclusive: 2014 - 2016
 Total Direct Costs: \$95,138

Funding Agency: CFAR - PILOT GRANT - IDM
 Title of Grant: Engineering Highly Stable Proteins Expressing Structurally
 Correct HIV Epitopes

Principal Investigator: Ernesto
 Role on Grant: PI
 Years Inclusive: 2014 - 2016
 Total Direct Costs: \$112,569

Funding Agency: CDC

Grant Number: 05.35259.5100.00000.124853.00000.00000.
Title of Grant: CORE Influenza surveillance and vaccine effectiveness in a large diverse network
Years Inclusive: 8/1/2014 - 7/31/2015
Percent Effort: 5.0 %

Funding Agency: European Union FP7
Title of Grant: International Research Consortium on Dengue Risk Assessment, Management, and Surveillance - IDAMS
Principal Investigator: Thomas Jaenish - UniversitätsKlinikum Heidelberg
Role on Grant: Co-Investigator
Years Inclusive: 2013 - 2015

Funding Agency: Bill and Melinda Gates Foundation
Grant Number: OPP1068374
Title of Grant: Detection Of Recent Hiv-1 Infections Based On Naturally Inspired Synthetic Oligomers

Principal Investigator: Donald Burke
Marques Role on Grant: PI (multiple)
Years Inclusive: 2012 - 2015
Percent Effort: 15.0 %
Total Direct Costs: \$355,000
Total Amount Awarded: \$390,500

Funding Agency: Sanofi Pasteur
Title of Grant: Development of a Specific Assay for Detection of Anti-Dengue NS1
Principal Investigator: Ernesto Marques
Marques Role on Grant: PI (sole)
Years Inclusive: 2/1/2014 - 1/31/2015
Percent Effort: 40.0 %
Total Amount Awarded: \$254,600

Funding Agency: NIH/NIAID
Grant Number: 5R44AI062177
Title of Grant: Defining T Cell Epitopes in Dengue Virus Infection
Principal Investigator: Ramila Philip
Role on Grant: PI (multiple)
Years Inclusive: 2012 - 2014
Percent Effort: 5.0 %
Total Direct Costs: \$36,936
Total Amount Awarded: \$55,404

Funding Agency: Seeding Labs Foundation
Title of Grant: Equipment infrastructure for a virology lab expansion

Principal Investigator: Ernesto Marques
Role on Grant: PI (sole)
Years Inclusive: 2013 - 2013
Total Direct Costs: \$200,000
Total Amount Awarded: \$200,000

Funding Agency: CNPq
Title of Grant: Pronex-8. Innate immune factors associated with dengue immunopathogenesis.

Principal Investigator: Ernesto Marques
Role on Grant: PI (multiple)
Years Inclusive: 2010 - 2013
Total Direct Costs: \$150,000
Total Amount Awarded: \$150,000

Funding Agency: NIH/NIAID
Grant Number: AI082632
Title of Grant: Center for Immunology of Emerging Infectious Diseases
Principal Investigator: Donald Burke
Role on Grant: PI (multiple)
Years Inclusive: 2009 - 2011
Percent Effort: 10.0 %
Total Direct Costs: \$530,000
Total Amount Awarded: \$795,000

Funding Agency: FIOCRUZ/PDTIS
Title of Grant: Dengue vaccine development - Infrastructure for a clinical virology laboratory
Principal Investigator: Ernesto T. A. Marques
Role on Grant: PI (multiple)
Years Inclusive: 2002 - 2010
Total Direct Costs: \$250,000
Total Amount Awarded: \$250,000

Funding Agency: UNESCO PN-DST/AIDS
Title of Grant: Targeting of immunogenically conserved HIV-1 amino-acid sequences to the major histocompatibility complex class II compartment with LAMP-1

Principal Investigator: Ernesto Marques
Role on Grant: PI (sole)
Years Inclusive: 2008 - 2009
Total Direct Costs: \$150,000
Total Amount Awarded: \$150,000

Funding Agency: NIH/NIAID
Grant Number: AI-40085

Title of Grant: High throughput T-cell epitope discovery (Clinical Core)
Principal Investigator: Thomas August N01; Clinical Core PI Ernesto Marques
Role on Grant: PI (multiple)
Years Inclusive: 2004 - 2009
Percent Effort: 10.0 %
Total Direct Costs: \$72,222
Total Amount Awarded: \$118,444

Funding Agency: NIH/NIAID
Grant Number: AI-40085
Title of Grant: High throughput T-cell epitope discovery (Development of a vaccinee and sample database system)
Principal Investigator: Thomas August N01; Database development PI Ernesto Marques
Marques Role on Grant: PI (multiple)
Years Inclusive: 2004 - 2009
Percent Effort: 5.0 %
Total Direct Costs: \$71,776
Total Amount Awarded: \$118,712

Funding Agency: NIH/NIAID
Grant Number: AI-40085
Title of Grant: High throughput T-cell epitope discovery (T-cell epitope validation in human samples)
Principal Investigator: Thomas August N01; T-cell epitope validation PI Ernesto Marques
Role on Grant: PI (multiple)
Years Inclusive: 2004 - 2009
Percent Effort: 40.0 %
Total Direct Costs: \$470,360
Total Amount Awarded: \$771,390

Funding Agency: NIH/NIAID
Grant Number: U19 AI56541
Title of Grant: T-cell based and MHC targeted tetravalent dengue DNA vaccine (Clinical Core)
Investigator: Thomas August U19; Clinical Core PI Ernesto Marques
Marques Role on Grant: PI (multiple)
Years Inclusive: 2003 - 2008
Percent Effort: 30.0 %
Total Direct Costs: \$336,629
Total Amount Awarded: \$552,074

Funding Agency: NIH/NIAID
Grant Number: AI56541
Title of Grant: T-cell based and MHC targeted tetravalent dengue DNA

Principal Investigator: vaccine (Human T-cell epitope discovery)
Thomas August U19; Human T-cell PI Ernesto Marques
Role on Grant: PI (multiple)
Years Inclusive: 2003 - 2008
Percent Effort: 10.0 %
Total Direct Costs: \$175,654
Total Amount Awarded: \$288,072

Funding Agency: WHO/TDR
Title of Grant: Vaccination with DNA encoding Schistosoma mansoni
tegumental proteins
Principal Investigator: Ernesto T. A. Marques
Role on Grant: PI (sole)
Years Inclusive: 2000 - 2001
Total Direct Costs: \$71,689
Total Amount Awarded: \$79,644

OTHER SCHOLARLY ACTIVITIES

Editorial Board(s)

2001 - 2006 Editor, Archives in Biochemistry and Biotechnology
2012 - 2019 Editor, PLoS ONE
2013 - Present Associate Editor, PLoS NTD
2022 - Present Associate Editor, Frontiers in Immunology
2022 - Present Associate Editor, Frontiers in Public Health

Manuscript Reviewer

1999 - Present Reviewer, Archives in Biochemistry and Biotechnology
2000 - Present Reviewer, The Journal of Biological Chemistry
2000 - Present Reviewer, Glycobiology
2000 - Present Reviewer, Vaccine
2001 - Present Reviewer, The Brazilian Journal of Medical and Biological
Research
2001 - Present Reviewer, Human retrovirology
2003 - Present Reviewer, Journal of General Virology
2003 - Present Reviewer, Journal of Biotechnology
2003 - Present Reviewer, American Journal of Tropical Medicine and Hygiene
2004 - Present Reviewer, Archives of Virology
2006 - Present Reviewer, MBC Immunology
2006 - Present Reviewer, Virus Research
2006 - Present Reviewer, PLoS ONE
2008 - Present Reviewer, PLoS NTD
2008 - Present Reviewer, PLoS Medicine

2009 - Present Reviewer, Immunology
 2009 - Present Reviewer, Journal of Immunology
 7/1/2014 - Present Reviewer, Science Translational Medicine
 7/1/2016 - Present Reviewer, The Lancet
 7/1/2016 - Present Reviewer, The Lancet Infectious Diseases
 7/1/2018 - Present Reviewer, Journal of Virology
 7/1/2018 - Present Reviewer, Journal of Infectious Diseases
 7/1/2018 - Present Reviewer, Science
 5/1/2022 - Present Reviewer, Journal of Chemical Information and Modeling

Grant Reviewer

2010 - 2011 Reviewer, Research Competitiveness Program at the American Association for the Advancement of Science (AAAS) provides review services and guidance to research programs working on a review project advising the Rhode Island Science and Technology Advisory Council
 2012 - Present Reviewer, NIH NIAID for several R01, U19, R21, P01 study sections
 2016 - Present Reviewer, MRC – Medical Research Counsel – UK

Conference Planning & Review

2008 - 2008 Programme Committee Member Reviewer, First Pan-American Dengue Research Meeting, Recife Brazil
 2010 - 2010 Programme Committee Member Reviewer, Second Pan-American Dengue Research Meeting, Cancun Mexico
 2010 - 2011 Reviewer, IDM Diversity poster competition
 2010 - 2011 Reviewer, IDM Research Day Judge
 2010 - 2012 Programme Committee Member for Computational Immunology & Immunoinformatics Stream, 10th International Conference on Artificial Immune Systems
 2012 - 2012 Programme Committee Member Reviewer, Third Pan-American Dengue Research Meeting, Cartagena Colombia
 10/19/2014 - 10/22/2014 Conference Materials Review, Fourth Pan-American Dengue Research Meeting, Belem Brazil
 10/23/2014 International Dengue Vaccine Modeling Workshop
 2016 - 2016 Programme Committee Member, Material Reviewer, Fifth Pan-American Dengue Research Meeting, Panama City, Panama
 2016 - 2016 ABCDE do Zika Virus - First International Workshop on Zika Virus Held by Oswaldo Cruz Foundation FIOCRUZ in Northeast Brazil March 2016
 2018 - 2018 Programme Committee Member, Material Reviewer, Sixth Pan-American Dengue Research Meeting, Galveston, Texas

Other Review Activities

2010 - 2011	Invention Reviewer, Office of Technology Management, University of Pittsburgh.
2020 - 2021	Invention Reviewer, Office of Technology Management, University of Pittsburgh.

PATENTS

1. Marques Jr E T A, Montengro SM, Rangel AN, Abath FG Dengue Linear antibody eptiopes/ EPÍTOPOS LINEARES DO ENVELOPE DO VÍRUS DA DENGUE. BR PI 0704650-2. Filed on 2007 Nov 30.
2. Brasier A, Recinos A, Wiktorowicz J, Spratt H, Hyunsu JU, Vasilakis N, Marques E T H, Tenorio M, Gil L, Nascimento E Method and Biomarkers for the Detection of Dengue Hemorrhagic Fever. 2012170556. Filed on 2012 Dec 14.
3. Marcadores Prognosticos de Resposta Clinica de Pacientes Infectados com Virus da Dengue / Level of gene expression as well as their encoded products as a prognostic tool to predict Dengue virus-infected patient outcome. PI0903187-1 A2. Issued on 2011 Oct 25.
4. Marques E T A, August TJ Chimeric vaccines. 8318173/ 10/474371. Issued on 2012 Nov 27.
5. Dhalia R, Maciel Filho R, Marques E T A DNA Vaccine Against Virus of Yellow Fever. 20120308603/ 13/504464. Issued on 2012 Dec 6.
6. Marques E T, August TJ Chimeric Vaccines comprising the luminal domain of LAMP-1 or LAMP-2. 1385538. Issued on 2013 Jan 30.
7. Marques E T, Nascimento EJM, Use Of A Linear B Cell Epitope Of Ns1 Protein To Treat Dengue Virus. PCT/US2016/059737; Pitt Ref. No. 03722; Klarquist Ref. No. 8123-96075-02
8. Marques E T, Nascimento EJM. Ko Albert. Use of IgG3 anti non-structural (NS) 1 protein for differential diagnosis of recent infection caused by flaviviruses. The USPTO has assigned U.S. Application No. 62/503,201 to this application, and the filing date of May 8, 2017

INVITED PRESENTATIONS (Selected)

1. Marques E T A. Targeting antigens to the MHC II compartment. Presented at: The Johns Hopkins Singapore; The Johns Hopkins University; 1999; Singapore.
2. Marques E T A. Fucosyltransferases in Schistosoma mansoni development. Presented at: Fukuyama University, Department of Pharmacology, Host -Kenji Akasaki; 1999; Fukuyama, Japan.
3. Marques E T A. Targeting dengue antigens to the MHC II compartment. Presented at: Centro de Pesquisa Aggeu Magalhaes, Fundacao Oswaldo Cruz, Department of Immunology Host - Norma Lucena; 2000; Recife, PE, Brazil.

4. Marques E T A. Genetic Vaccines For Emerging Infectious Diseases. Presented at: Universidade Federal de Pernambuco, Department of Biochemistry and The Center for Technological Integration, Host - Eduardo Magalhaes; 2000; Recife, PE Brazil.
5. Marques E T A. MHC II Targeted Genetic Vaccines. Presented at: Instituto Superior Tecnico, Centre for Biological and Chemical Engineering, Host - Joaquim Sampaio; 2001; Lisbon, Portugal.
6. Marques E T A. LAMP-Targeted Schistosome DNA Vaccine. Presented at: 8th International Symposium on Schistosomiasis. Plenary section. Host - Frederico Abath; 2001; Recife, PE, Brazil,.
7. Marques E T A. LAMP-Targeted DNA Vaccines. Presented at: Universidade Federal do Rio de Janeiro. Department of Microbiology and Immunology, Hosts: Dr. Ligia Pecanha and Dr. Leila S. Fonseca; 2001; Rio de Janeiro, RJ, Brazil.
8. Marques E T A. LAMP-Targeted Schistosome DNA Vaccine. Presented at: Institut Paster de Lille. Department of Schistosomiasis, Malaria and Inflammation, Host: Dr. Monique Capron; 2002; Lille, France,.
9. Marques E T A. MHC II Targeted Genetic Vaccines For Emerging Infectious Diseases. Presented at: Fundacao Oswaldo Cruz FIOCRUZ, Instituto Oswaldo Cruz - IOC, Host: Dr. Romulo Maciel; 2002; Rio de Janeiro, RJ, Brazil.
10. Marques E T A. MHC II Targeted Genetic Vaccine For Dengue. Presented at: Universidade de Sao Paulo, Department of Clinical Immunology. Host: Dr. Alberto Duarte; 2002; Sao Paulo, SP, Brazil.
11. Marques E T A. MHC II Targeted Genetic Vaccines. Presented at: XXXIII Reunião Anual da Sociedade Brasileira de Bioquímica e Biologia Molecular SBBq. Plenary section speaker, Host: Dr. Jose Luis de Lima Filho; 2004; Caxambu, MG, Brazil,.
12. Marques E T A. MHC II Targeted Genetic Vaccine For HIV. Presented at: Universidade de Sao Paulo, Department of Dermatology. Host: Dr. Alberto Duarte; 2004; Sao Paulo, SP, Brazil.
13. Marques E T A. Human Immunologic Research in Infectious diseases. Presented at: Meharry Medical College, Tennessee Host F. Villalta; 2004; Nashville Tennessee.
14. Marques E T A. Human Immunologic Research in Primary Immune Deficiencies. Presented at: Primary Immune Deficiency Symposium. Host: Dr. Alberto Duarte; 2005; Sao Paulo, SP, Brazil.
15. Marques E T A. AIDS Vaccine research and development strategies for collaboration between “India, Brazil and South Africa. Presented at: IBSA “India, Brazil and South Africa” cooperative workshop.. Host - Ministry of Health; 2006; Cape Town, South Africa.
16. Marques E T A. Use of open source electronic information systems as a tool for increasing equitable access to Health Care. Presented at: Equitable access to Health Care and Infectious diseases Control: Concepts Measurements and Interventions Symposium WHO/TDR Host Dr. Johannes Sommerfeld; 2006; Rio de Janeiro Brazil.
17. Marques E T A. Dengue epidemiology and immunopathology in Recife - Brazil. Presented at: Weill Cornell - XI Tropical Medicine Research Center Meeting & the III International Collaboration in Infectious Diseases Research Host - Albert Ko; 2007; Ilheus, Bahia Brazil.
18. Marques E T A. Dengue epidemiology and immunopathology in Recife - Brazil.

- Presented at: Third Asian Regional Dengue Research Network Meeting Novartis Institute for Tropical Diseases & PDVI Host Scott Halstead; 2007; Taipei Taiwan.
19. Marques E T A. Innate immune response factors in dengue immunopathology. Presented at: Novartis- Minisymposium on Dengue: Host - Alex Jetzer, and Paul Herrling; 2008; Guarujá, Sao Paulo; Brazil.
 20. Marques E T A. Involvement of host innate immune responses on dengue vasculopathy. Presented at: Second Pan-American Dengue Research Meeting,; 2010; Cancun, Mexico.
 21. Marques E T A. Complement system activation in dengue infection: opportunities for Computational modeling. Presented at: The Eighth Annual Conference of the Mid-South Computational Biology and Bioinformatics Society MCBIOS.; 2010; Texas.
 22. Nascimento E, Marques E. Involvement of Host Innate Immune Responses on Dengue Vasculopathy. Presented at: XXI Brazilian Virology Meeting/V Mercosul Virology Meeting; 2010 Oct 17-20; Gramado, Rio Grande do Sul, Brazil.
 23. Nascimento E, Marques E. COMPREHENSIVE T-CELL EPITOPE MAPPING OF DENV-3 ENVELOPE, NS1, NS3 AND NS5 PROTEINS ON HLA A2, A24, B7, DR2, DR3 AND DR4 TRANSGENIC MICE. Presented at: Second Pan-American Dengue Research Network Meeting; 2010 Nov 16-19; Cancun, Mexico.
 24. Marques E T A. The Role of the Complement System in the Development of Dengue Vasculopathy. Presented at: Center for Tropical Diseases - CTD University of Texas Medical Branch in Galveston.; 2011; Texas.
 25. Marques E T A. Complement System in the Development of Dengue Vasculopathy. Presented at: IV International Symposium on Tropical Arboviruses and Hemorrhagic Fevers; 2011; Belém, Para, Brazil.
 26. Marques E T A. Dengue in Brazil: Critical questions for vaccine introduction. 2011; Sao Paulo, Brazil, Instituto Adolfo Lutz.
 27. Marques E T A. Dengue epidemiology and immunopathology in Brazil. Presented at: Science 2011, University of Pittsburgh.; 2011; Pittsburgh, PA.
 28. Marques E T A. MHC-II targeted genetic vaccines. Presented at: CVR Symposium, University of Pittsburgh.; 2011; Pittsburgh, PA.
 29. Van panhuis W, Marques E, Burke DS. Global access to local dengue surveillance data. Presented at: Vaccine-to-Vaccination meeting; 2011 Nov 5; San Juan, Puerto Rico.
 30. Marques E T A. Development of high throughput tool for seroepidemiology. Presented at: Instituto Adolfo Lutz; 2012; Sao Paulo, SP, Brazil.
 31. Marques E T A. Influence of host genetics on dengue pathogenesis. Presented at: Novartis Institute for Tropical Diseases. Conference On Dengue; 2012; Sao Paulo, Brazil.
 32. Marques E T A. Prognostic biomarkers of dengue Immunopathology. Presented at: International Congress of Tropical Medicine and Malaria; 2012; Rio de Janeiro Brazil.
 33. Moderator. Presented at: Sanofi Pasteur Satellite Symposium on Dengue during the International Congress of Tropical Medicine and Malaria; 2012; Rio de Janeiro Brazil.
 34. Garcia-Bates T, Cordeiro M, Nascimento E, Smith A, Evans JD, Marques E,

- Barratt-Boyes SM. Profound virus-specific plasmablast response in secondary dengue virus infection correlates with disease severity. Presented at: Pan American Dengue Research Network; 2012 Sep 12-15; Cartagena Colombia.
35. Van panhuis W, Marques E, Choisy M, Cummings D, Burke DS. Global sharing of dengue surveillance data. Presented at: Regional meeting in dengue prevention and control; 2012 Sep 17; New Delhi, India.
 36. Burke DS, Marques E T A. Progress Report - Detection of Recent HIV-1 Infections Based on Naturally Inspired Synthetic Oligomers. Presented at: BMGF Recency program progress report; 2013 May; Seattle.
 37. Marques E T A. Complement modulation of cellular responses and dengue-associated vasculopathy. Presented at: Fourth Pan American Dengue Research Network; 2014 Oct 19-25; Belem, Brazil.
 38. Translational approaches to vaccine development. Presented at: III Anual scientific and Technological meeting of Biomanguinhos; 2015 Jun 3-7; Rio de Janeiro.
 39. Programme Committee Member, Material Reviewer, Fith Pan-American Dengue Research Meeting, Panama City, Panama
 40. ABCDE do Zika Virus - First International Workshop on Zika Virus Held by Oswaldo Cruz Foundation FIOCRUZ in Northeast Brazil March 2016
 41. Meeting with the Dengue Collaborating Centers of the World Health Organization and Pan American Health Organization in the Americas Region and selected National Laboratories. Place: National Institute of Epidemiologic Diagnosis and Reference (Instituto Nacional de Diagnóstico y Referencia Epidemiológica, InDRE); Mexico City, Mexico
 42. Participation in the RELDA (Dengue Laboratory Network of the Americas)
 43. WHO/PAHO Meeting to review a plan for global round of proficiency testing and other networking activities, 15-20 February 2016, San Juan, Puerto Rico
 44. WHO/ Consultation on the dossier and laboratory evaluation requirements for the Emergency Use Assessment and Listing procedure for Zika virus in vitro diagnostics, Geneva, Switzerland, 10-15 March 2016
 45. 7th German---Brazilian Symposium for Sustainable Development 04 – 10 October 2015 Interaction between Earth resources and processes and human societies Heidelberg University, Germany
 46. @ASM Conference – Special President's Edition on What Does the Biology of Flaviviruses Tell Us About Zika: The Importance of Fundamental Virus Biology June 1, 2016 | ASM Headquarters
 47. NIH-Fiocruz Arbovirus Seminar: Global Health Challenges and Collaborative Opportunities in Arbovirus Research, to be held November 30-December 3, 2015 in Manaus, Brazil.
 48. NIH-BARDA - Zika Virus in the Americas: An HHS Expert Consultation to Accelerate the Development of Countermeasures Washington DC March 28-29, 2016
 49. Cura Zika Symposium May 5, 2016,
 50. Pittsburgh Stanley meeting 2016 Meeting on Infection, Immunity, Brain and Cognition Sponsored by the Stanley Medical Research Institute (SMRI)Cura Zika Symposium May 5, 2016,
 51. IDAMS and DENFREE Meeting 21-23 November 2016 – institute Pasteur – Paris

- France. Natural History of Dengue, Zika and Chikungunya outbreaks in Brazil. Diagnostic Challenges
52. Zika Alliance Kick-off meeting December 4-5th 2016 CCR – University of Sao Paulo Medical School São Paulo, Brazil – Arboviral Diagnostic approaches
 53. WHO Zika diagnostic Meeting – Presenter and seccion chair – October 8 to 12, 2018
 54. Invited presentation about Zika Diagnostic at the of the Zika in Infants and Pregnancy Study Sections – NIH-ZIP – At the American Society of Tropical Medicine and Hygiene – New Orleans 2018
 55. International Vaccine Initiative Meeting New Orleans October 2018
 56. Sixth Pan-American Dengue Research Meeting, Galveston, Texas
 57. SAMBODHI RESEARCH, May 21, 2020 – COVID-19 Vaccine development – Safety Concerns - Via Zoom
 58. Scientific Symposium Celebrating the 70 years of the Institute Aggeu Magalhães September, 2020 – Via Zoom What we know about COVID-19 infection Immune responses and implications for vaccine development
 59. American Chemical Society (ACS)– COVID-19 Webinar June 2020 –Possibilities for interactions between Universities and Pharmaceutical Industry for development of vaccines, diagnostics and treatment for COVID-19 Via Zoom
 60. MidAtlantic AECT- July 30th 2020 - Roadmap for COVID19 Vaccine Development

OTHER PRESENTATIONS (Selected)

1. Marques E T A. A Biosensor For Ascorbic Acid (Using Ascorbate Oxidase Immobilized On Nylon Net And Gilson Oxygraph). Presented at: XVII Encontro Anual Da Sociedade Brasileira De Bioquimica E Biologia Molecular; 1989.
2. Marques E T A. Biosensor For Ascorbic Acid Using Ascorbate Oxidase Immobilized On Glass Beads. Presented at: V Encontro Anual Da Federacao Das Sociedades De Biologia Experimental; 1990.
3. Marques E T A. Mechanisms Of Ketoconazole Effect In Lipid Composition And Respiration In Paracoccidioide Brasiliensis. Presented at: XI Congress Of The International Society For Human And Animal Mycology; 1991.
4. Marques E T A. Determination Of Glucose Oxidase Activity On Polyaniline. Presented at: XXXI Congresso Brasileiro De Quimica; 1991.
5. Marques E T A. Studies Of Respiration Of Saccharomices Cerevisiae In Batch Fermentation. Presented at: XXXI Congresso Brasileiro De Quimica; 1991.
6. Marques E T A. Low Cost Data Acquisition System For Biological Applications. Presented at: XXI Encontro Anual Da Sociedade Brasileira De Bioquimica E Biologia Molecular; 1992.
7. Marques E T A. Redox Effects Of Polyaniline On The Glucose Oxidase Activity. Presented at: XXI Encontro Anual Da Sociedade Brasileira De Bioquimica E Biologia Molecular; 1992.
8. Marques E T A. Effects Of Ketokonazole On The Oxygen Consumption And Lipid Content In Paracoccidioide Brasiliensis. Presented at: XXI Encontro Anual Da

- Sociedade Brasileira De Bioquimica E Biologia Molecular; 1992.
9. Marques E T H. Glucose Biosensor Using Glucose Oxidase Immobilized In Alkylamine Glass Beads. Presented at: Sixth European Congress On Biotechnology; 1993.
 10. Marques E T A. Ascorbic Acid Determination In Biological Fluids Using Ascorbate Oxidase Immobilized On Glass Beads In A Flow Injection Potenciometric System. Presented at: Sixth European Congress On Biotechnology; 1993.
 11. Marques E T A. Flow Injection Potenciometric System Of Ascorbic Acid Using A Low Cost Home Made Oxygen Electrode. Presented at: Xxii Encontro Anual Da Sociedade Brasileira De Bioquimica E Biologia Molecular; 1993.
 12. Marques E T A. Xanthine Oxidase Immobilized On Polyaniline. Presented at: Xxii Encontro Anual Da Sociedade Brasileira De Bioquimica E Biologia Molecular; 1993.
 13. Marques E T A. Action Of Immobilized Xanthine Oxidase On Polyaniline And Glass On Purines. Presented at: XXII Encontro Anual Da Sociedade Brasileira De Bioquimica E Biologia Molecular; 1993.
 14. Keun OK, Marques E T A, Kun-Young P, August JT. [P10-174] Adjuvant Effects of Zymosan and Lipoteichoic Acid on West Nile DNA Vaccine. Poster presented at: University of South Korea; 2006; Seul, Korea.
 15. Van panhuis W, Cordeiro MT, De Oliveira VF, De Melo WT, Marques E, Burke DS. Spatiotemporal patterns of dengue transmission in Pernambuco Brazil: 2001-2009. Poster presented at: Third Panamerican Dengue Research Network Meeting; 2012 Sep 12; Cartagena, Colombia.

TEACHING

Graduate Courses

Year(s)	Course Number & Title	Role
2001 - 2009	330.600, Medical Pharmacology	Group Instructor
2005 - 2010	330.600, Medical Pharmacology	Lecturer/ Secondary Instructor
2006 - 2006	223.689.01, Biologic Basis of Vaccine Development	Lecturer/ Secondary Instructor
2009 - 2012	IDM 2003, Host Response to Microbial Infection	Lecturer/ Secondary Instructor
2009 - 2012	MSMVM 3440, Vaccines and immunity	Lecturer/ Secondary Instructor
2012 - Present	IDM 2014, Functional Genomics of Microbial Pathogens	Lecturer/ Secondary Instructor
2013 - Present	IDM -2038, Prevention, Treatment, and Control of Global Infectious Diseases	Faculty
4/30/2013 - 5/10/2013	Production, selection, and evaluation of antigenicity and immunogenicity of recombinant antigens	Lecturer
2014 – Present	IDM 2010, Pathogen Biology course	Lecturer/ Secondary

2014 – Present	IDM - 2003, Host Response to Microbial Infection	Instructor Coordinator and Primary Instructor
2016 – 2019	EPIDEM 2160 - Epidemiology Of Infectious Diseases	Lecturer/ Secondary instructor
2016 – 2019	EPIDEM 2720 - Reproductive Epidemiology	Lecturer/ Secondary instructor
2017 – Present	IDM 3440, Vaccines And Immunity	Lecturer/ Secondary instructor
2017 – Present	IDM 2004, Viral Pathogenesis	Lecturer/ Secondary instructor2
2017 – 2019	Changing Science, Changing Society: A Guide to 21st Century Medicine (MSELCT 5700)	Lecturer/ Secondary instructor
2017 – 2019	Hist 1091 - Global Health History:	Lecturer/ Secondary instructor
2022 – present	IDM2035 – Vector-Borne Diseases: Research and Practice	Lecturer/ Secondary instructor

Postgraduate Courses

Year(s)	Course Number & Title	Role
7/15/2013 - 7/19/2013	Vaccines in Public Health	Lecturer

Precepting/Experiential

Year(s)	Course Number & Title	Role
2010	IDM Seminar series	Seminar Speaker
2010	ID Grand rounds	Seminar Speaker
2010	UPMC - CCM CRISMA weekly meeting	Seminar Speaker
2012 - 2018	practical training in translational & field research	Course coordinator
2012 -	PHDL/ International Modeling Program Belem, PA, Brazil	Course preparation

MENTORING AND ADVISING

Undergraduate Students

Year(s)	Student's Name & Department/Degree/Discipline	Role
9/1/2013 - 8/1/2014	Robyn Konicki development of quantitative assays do measure complement factors	Advisor
1/1/2014 - 6/30/2014	Katherine Colington Development of quantitative complement Assays	Advisor
2015 - 2016	Johnathon Scheibel PITT Undergrad - First Experiences in Research Program Probiotic yeast	Advisor
2015 - 2015	Jordan Carter PITT - First Experiences in Research Program Pro-biotic yeast	Advisor

Master's Students

Year(s)	Student's Name & Department/Degree/Discipline	Role
2006 - 2008	Andrea Rangel MSc (2008) Characterization of DENV3 B-cell linear epitopes	Co-Advisor
2009 - 2010	Kevin McCormick MSc (2010) A Cytopathic Effect-Based High-Throughput Screening Assay Identified Two Novel Compounds That Inhibit Dengue Infection: Streptavidin A And Nagilactone C	Service on Masters or Doctoral Committees
2009 - 2010	Keith Atchison MPH (2010) dengue epidemiology	Co-advi
2010 - 2011	Francis M. Still	Service on Masters or

	MSc (2011) Dengue Virus Infection Of B Lymphocytes In Vitro	Doctoral Committees
2010 - 2011	Gisele Lima MSc (2011) Dengue inflammatory responses	Service on Masters or Doctoral Committees
2011 - 2013	Amy Lee Caroline MSc (2013) Non-Human primate Immune responses to infection with rift valley fever virus	Service on Masters or Doctoral Committees
2012 - 2013	Erin Cathcart MPH (2013) Role of host genetics in dengue infection	Co-Advisor
8/1/2013 - 6/1/2014	Nicole Lea Phillips	Service on Masters or Doctoral Committees
2014 - 2015	Lynda Jones Epidemiology, GSPH MPH (expected 2015) Lyme Disease	Essay Reader
6/1/2014 - 5/1/2015	Hanna Anderson Polglase Genetic factors involved in dengue pathogenesis - Global Health track	Adviser
2016 - 2018	Ana Sofia Oliveira PITT – Global Training Program Dengue Peptoid	Advisor
2018- 2019	Justin Dutta IDM – Practicum	Advisor
2019- 2020	Jason Yeung MPH	Advisor
2020- -2021	Mathew Duespohl MPH	Advisor
2020 - 2022	Lawrence Ji PITT – 4 +1 Program BA and MPH Community based COVID-19 seroprevalence study	Advisor

2020 - 2022	Amro Nasser MSc Measurement of the capacity of immune complexes to activate complement	Advisor
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Doctoral Students

Year(s)	Student's Name & Department/Degree/Discipline	Role
1999 - 2003	Luciana Barros de Arruda Hinds PhD (2003) DC-LAMP/HIVgag chimeric DNA vaccine	Co-Advisor
2000 - 2003	Debora Nguyen PhD (2003) HIV co-receptors and host proteins on viral envelop	Service on Masters or Doctoral Committees
2000 - 2003	Lisa Cimakasky PhD (2003) Host proteins on HIV viral envelop	Service on Masters or Doctoral Committees
2000 - 2003	Kakoli Niyogi PhD (2003) HIV co-receptors	Service on Masters or Doctoral Committees
2003 - 2008	Marli Tenorio PhD (2008) Characterization of a dengue cohort in Recife - Brazil	Co-Advisor
2006 - 2008	Ana Maria da Silva MSc (2008) DENV3 kinetics in severe dengue	Advisor
2006 - 2010	Sabrina Ribeiro de Almeida PhD (2010) Dengue Molecular Virology	Co-Advisor
2008 - 2011	Andrea Rangel PhD (2011) Dengue Vaccine	Co-Advisor
2008 - 2012	Liciana Alencar PhD (2012)	Advisor

	Characterization of dengue envelop T-cell epitopes.	
2008 - 2012	Andrea Barbosa PhD (2012) Characterization of yellow fever T-cell epitopes	Advisor
2008 - 2013	Ana Maria Silva PhD (2013) Molecular epidemiology of dengue	Co-Avisor
2009 - 2013	Georgia Guimaraes (expected 2013) Tetravalent dengue DNA vaccine targeted to the MHCII compartment	Co-Advisor
2009 - 2014	Sarah Dickin (2014) Environmental and socio-economic factors determining dengue incidence - EcoHealthNet	Co-Advisor
2009 - 7/30/2014	Heike Erna Brand (expected 2014) Development of diagnostic assays for emerging viral diseases	Advisor
2009 - 2015	Stella Joan Berendam (2014) Innate responses of lymphatic cells - PITT IDM	Service on Masters or Doctoral Committees
2010 - 2012	Klécia Marília Soares de Melo MSc (2012) Development of dengue serological diagnostics	Advisor
2011 - 2014	Isabelle Viana (expected 2015) B-cell epitope delivery platform / Protein Engineering- Fiocruz	Co-Advisor
2011 - Present	Cintia Marinho FIOCRUZ - IOC (expected 2016)	Co-Advisor

	Dengue virus binding to complement receptors	
2012 - 2015	Mariana Palma (expected 2015) HIV Immunotherapy - USP, Brazil	Co-Advisor
2012 - 2016	Sandra Mayer (expected 2016) dengue virus entry - UTMB	Service on Masters or Doctoral Committees
2012 - 2016	Priscila Mayrelle da Silva Castanha (expected 2016) Kinetics of Maternal antibody transfer to neonates - Fiocruz	Co-Adviser
2015 - 2016	Lucianna Oliveria Lima Peptoids ligands to HCV proteins - Fiocruz	Co-Adviser
2016 - 2018	Danilo Coelho Engineering Zika and Dengue protein Antigens - Fiocruz	Co-Adviser
8/1/2013 - 8/30/2014	Yang Gao (expected 2016) Tsinghua University fellow - Dengue NS1 protein expression	Advisor
8/1/2013 - 2015	Guangchao Guo (expected 2017) Tsinghua University Fellow - Dengue serotype specific peptoid biomarkers	Advisor
8/1/2018 – 2020	Chen Yang Tsinghua University Fellow – Complement System in Zika infection	Advisor
9/1/2018 - 2019	Alexandra Miragaia PhD Candidate Epi – GSPH	Co-Advisor
9/1/2019 – Present	Justin Dutta PhD Candidate Human Genetics – GSPH	Co-Advisor
07/1/2020 – Present	Dylan Tuttle Antibody and complement activity in COVID-19 disease pathogenesis	Advisor

PhD Candidate IDM GSPH

07/1/2021 – Present	Delmaliz Barreto-Vazquez Impact of the COVID-19 pandemic on behavior and exposures on children from Surinam	Co-Advisor
07/1/2022 – Present	Maris Wilkins Project to be determined	Advisor

Other Students

Year(s)	Student's Name & Department/Degree/Discipline	Role
2000 - 2006	Nia Banks MD/PhD (2006) Role of host proteins on HIV envelop	Service on Masters or Doctoral Committees
6/1/2013 - 7/30/2014	Andrea Dobbs B-cell activation by dengue virus	Service on Masters or Doctoral Committees
3/1/2014 - 7/30/2014	Sean P Fagan Cytokne responses in dengue pathogenesis - EcohealthNet	Advisor
3/1/2014 - 8/1/2014	John A Rossow Dengue epidemiological data - EcoHealthNet Program	Advisor

Postdoc or Fellow

Year(s)	Student's Name & Department/Degree/Discipline
1999 - 2000	Ihid Carneiro Leao Schistosomiasis vaccine
1999 - 2001	Yang Lu Dengue vaccine
2001 - 2007	Priya Chikhlikar HIV and Dengue Vaccine
2003 - 2005	Patricia Furtado Dengue B-cell epitope mapping
2003 - 2007	Milton Maciel

	Yellow Fever epitope mapping. Yellow fever vaccine
2004 - 2005	Srinivasan Kelatur Computational models of HLA peptide binding
2004 - 2006	Kern-He Chang HLA peptide binding
2004 - 2006	Jerome Salmon Dengue T cell epitope mapping
2004 - 2006	Ulisses Braga-Neto Immunomics & computational biology
2004 - 2007	Laura Gil Dengue molecular virology
2004 - 2008	Rafael Dhalia Antigen engineering
2004 - 2016	Eduardo Nascimento Dengue immunology
2005 - 2009	Vladmir Perovik Rabies virus T-cell epitope mapping
2006 - 2009	Rita Maia Rabies T-cell epitope mapping
2006 - 2009	Carlos Calzavara Functional genomics of dengue immune responses
2006 - 2013	Bartolomeu Acioli Role of host genetics in dengue responses
2008 - Present	Marli Tenorio - Fiocruz Dengue clinical virology
2010 - 2017	Bruno Douradinha Vaccine delivery platform
2014 - 2017	Tereza Magalhaes Lavite- Fiocruz

Dengue Clinical Cohort IDAMS- PPSUS

2015 - 2016	Valeria Carvalho Lima IEC - MOH
2015 - 2016	Jennifer Chang IEC – MOH
2015 - 2016	Isabelle Viana Pitt-IDM- CVR – Co-Rinaldo NIH-CNPq Supplement MACS HIV Antibody binding peptoids
7/15/2014 - 10/15/2014	Athman Mwatondo Dengue Serology and Epidemiology training - Kenya – EcoHealthnet
2018 - Present	Priscila Castanha Pitt-IDM Co-Barratt-Boyes DENV-ZIKV Antibody Cross Reaction – COVID-19 antibody responses and complement activation in disease pathogenesis

Mentored Faculty

Year(s)	Faculty Member's Name & Department/Degree/Discipline
2014 - Present	Lucimeire Antonelli da Silveira Universidade Federal de Goias Study of Follicular T helper cell responses in dengue

SERVICE

Service to Internal Organizations

Department Committees

2010 - 2011 Member, IDM Doctoral student award selection

School/University Committees

2010 - Present Member, IDM Bioscience curriculum committee
2012 Member, Selection of Asst. Professor position for HIV research in
Beira, Mozambique

2012	Member, Search committee member Research Asst. Professor at IDM
2013 - 2016	Member, Faculty Diversity Committee
2020 – Present	Member, FAPTC
2021 - Present	Affiliated Faculty - Center for Latin American Studies (CLAS) Pitt
2021 – Present	CLAS -Faculty Advisory Committee
2019 – Present	Pre-Review of NIH grants application for the Department of Psychiatry
2019 – Present	IDM Program Directors

Other Committees

2009 - 2018	Member, Center for Vaccine Research (CVR) Retreat committee
2016 - Present	CuraZika Scientific Adviser

Service to External Organizations

Public Policy and Programs

2002 - 2004	Consultant, Consultant/Scientific adviser for the Secretary of Epidemiological Surveillance. Brazilian Ministry of Health and United Nations Educational, Scientific and Cultural Organization (UNESCO).
2006 - 2018	Member, AIDS Vaccine Committee at the Brazilian Ministry of Health, Advisory committee for the Ministry of Health
2016 - 2018	Member, AIDS Vaccine Committee at the Brazilian Ministry of Health, Advisory committee for the Ministry of Health
2020 - present	Member, COVID-19 vaccine advisory committee for the Northeast States of Brazil
2012 - present	Science Day Poster Review Committee IDM -Department

External Committees

2008 - Present	Scientific Committee, Pan American Dengue Research Network
10/23/2014 -	Organizing Committee, Public Health Dynamics Laboratory - PHDL
2016 - Present	Participation in the RELDA PAHO (Dengue Laboratory Network of the Americas)
2016 - Present	WHO/PAHO Expert consultant
2016 - Present	WHO/PAHO Expert consultant
2016 - 2020	BARDA - Zika Serology Working Group
	BARDA - Zika Vaccine Clinical Development Working Group
2020	WHO reviewer of the grant proposal Identification of risk factors for, and rate of, infection in index cases and for transmission from index case to contacts
2021	WHO Zika Virus R&D Roadmap
2021	DNDi- Development of Dengue treatments, consultant

Other Professional Activities

2007 - 2008	Consultant ITI-Genoa Biotechnology Scientific Adviser working on a HIV therapeutic vaccine HIV-LAMP
2019 - Present	Adviser Instituto Armando Holanda – Health City Project
2021 - 2121	Scientific Adviser Gamaleya Institute – Sputnik V – COVID-19 vaccine.