

## Gustavo Capatti Cassiano, Ph.D.

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### EDUCATION

- 2010-2014     **Ph.D. in Genetics**  
Universidade Estadual Paulista (UNESP) – São José do Rio Preto, Brazil.
- 2008-2010     **M.Sc. in Genetics**  
Universidade Estadual Paulista (UNESP) – São José do Rio Preto, Brazil.
- 2004-2007     **B.Sc. in Biology**  
Universidade Estadual Paulista (UNESP) – São José do Rio Preto, Brazil.
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### RESEACHER TRAINING

- 2020 -2022     **Postdoctoral Research**  
Advisor: Prof. Dr. Pedro Vitor Lemos Cravo  
Project: “Identification of new antimalarial treatments through a target-centered drug repurposing approach”  
Skills: drug repurposing approaches, cultivation of the liver stage of malaria parasites, *Plasmodium* artificial infection of *Anopheles* mosquitoes
- 2016-2020     **Postdoctoral Research**  
Advisor: Prof. Dr. Fabio Trindade Maranhão Costa  
Project: “Identifying protein kinase inhibitors as antimalarial agents using chemogenomic, bioinformatics and phenotypic strategies: focus in *Plasmodium vivax*”  
Skills: cell culture, malaria parasite culture, biological drug assays, animal handling, molecular docking, QSAR, pharmacophore, homology modeling, virtual screening
- Training in “Computer-Aided Drug Design methods” under supervision of Dra. Carolina Horta Andrade at Universidade Federal de Goiás. Period: April-June, 2016.
  - Joint Postdoctoral at Instituto de Higiene e Medicina Tropical de Lisboa under supervision of Dr. Pedro Vitor Lemos Cravo. Period: September 2018-September 2019.
- 2010-2014     **Doctoral Research**  
Advisor: Prof. Dr. Ricardo Luiz Dantas Machado  
Project: “Polymorphisms of genes associated with humoral response in individuals naturally infected with *Plasmodium vivax* in Pará”  
Skills: PCR-RFLP, DNA sequencing, protein expression, ELISA, bioinformatics, statistics

- Training in “Assessing individual interethnic admixture and population substructure by Multiplex PCR” under supervision of Dr. Sidney Emanuel Batista dos Santos at Universidade Federal do Pará. Period: April 7-30, 2013.
- Training in “protein purification by affinity chromatography and ELISA” under supervision of Dr. Paulo Afonso at FIOCRUZ/ Manaus. Period: November 25 - December 6, 2013.

2008-2010

**Master Research**

Advisor: Prof. Dr. Ricardo Luiz Dantas Machado

Project: “Identification of *Plasmodium* infection in *Anopheles* mosquitoes using molecular tools”

Skills: primer design, PCR, RFLP, microscopy

- Training in “Capture and identification of *Anopheles* species” under supervision of Dra. Marinete Póvoa at Laboratório de Pesquisas Básicas em Malária of Instituto Evandro Chagas. Periods: November 7-20, 2008; September 27 - October 3, 2009.

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**RESEARCH GRANTS**Contributions to ongoing funded research

2018-2023      Development of new tools for search and validation of molecular targets for therapy against *Plasmodium vivax*  
Principal Investigator: Dr. Fabio Trindade Maranhão Costa  
Funded by FAPESP (São Paulo Research Foundation)  
Funding: R\$ 3,479,107 (~ € 538,500)  
Role: Project Team Member

2018-2022      Identification of new antimalarial treatments through a target-centred "drug repositioning" approach  
Principal Investigator: Dr. Pedro Vitor Lemos Cravo  
Funded by FCT (Portuguese Foundation for Science and Technology)  
Funding: € 224,291  
Role: Project Team Member

Contributions to prior funded research

2017-2018      Identifying protein kinase inhibitors as antimalarial agents using chemogenomic, bioinformatics and phenotypic strategies: focus in *Plasmodium vivax*  
Principal Investigator: Dr. Gustavo Capatti Cassiano  
Funded by FAEPEX (Fund for Support to Teaching, Research and Outreach Activities)  
Funding: R\$ 2,000 (~ € 310)

2012-2014      Polymorphisms of genes associated with humoral response in individuals naturally infected with *Plasmodium vivax* in Pará  
Principal Investigator: Dr. Ricardo Luiz Dantas Machado

Funded by CNPq (Brazilian Council for Scientific and Technological Development)  
 Funding: R\$ 108,000 (~ € 16,700)  
 Role: Student

#### Contributions to submitted grants

- 2021- Unravelling the biology of resistance to primaquine and tafenoquine in malaria parasites through experimental evolution, genomics and transgenesis  
 Principal Investigator: Dr. Pedro Vitor Lemos Cravo  
 Funding request to FCT  
 Funding: € 156, 987  
 Role: co-PI
- 2021- Rational design, computational, and in vivo strategies to combat drug-resistant *Plasmodium vivax*  
 Principal Investigator: Dr. Per Sunnerhagen  
 Funding request to SRC (Swedish Research Council)  
 Funding: kr 4,494,000 (~ € 444,900)  
 Role: Project Team Member

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#### **FELLOWSHIPS**

- 2020-2022 **FCT (Portuguese Foundation for Science and Technology)**  
 Role: Postdoctoral Fellowship. € 67,000
- 2018-2019 **FAPESP – BEPE (Research Internship Scholarships Abroad)**  
 Role: Postdoctoral Fellowship in foreign Institution. US\$ 45,879 (~ € 37,620)
- 2016-2020 **FAPESP (São Paulo Research Foundation)**  
 Role: Postdoctoral Fellowship. R\$ 274,713 (~ € 42,500)
- 2010-2014 **CNPq (Brazilian Council for Scientific and Technological Development)**  
 Role: Doctoral Fellowship. R\$ 102,000 (~ € 15,800)
- 2008-2010 **FAPESP (São Paulo Research Foundation)**  
 Role: Master Fellowship. R\$ 25,231 (~ € 3,900)

#### **HONORS**

- 2017 Best poster presentation award at the XV Seminário de Patologia Tropical e Saúde Pública
- 2011 Best student participation at the XVI Seminário Laveran & Deane

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#### **PUBLICATIONS**

Published in peer-reviewed journals

1. Salles PF, Perce-da-Silva DS, Rossi AD, Raposo LR, Ramirez Ramirez AD, Pereira Bastos OM, Pratt-Riccio LR, **CASSIANO GC**, Baptista ARS, Cardoso CC, Banic DM, Machado RLD. CYP2D6 Allele Frequency in Five Malaria Vivax Endemic Areas From Brazilian Amazon Region. *Front Pharmacol*. 12:542342. **2021**.
2. Tavella TA, da Silva NSM, Spillman N, Kayano ACAV, **CASSIANO GC**, Vasconcelos AA, Camargo AP, da Silva DCB, Fontinha D, Salazar Alvarez LC, Ferreira LT, Peralis Tomaz KC, Neves BJ, Almeida LD, Bargieri DY, Lacerda MVG, Lemos Cravo PV, Sunnerhagen P, Prudêncio M, Andrade CH, Pinto Lopes SC, Carazzolle MF, Tilley L, Bilsland E, Borges JC, Maranhão Costa FT. Violacein-Induced Chaperone System Collapse Underlies Multistage Antiplasmodial Activity. *ACS Infect Dis*, 7(4):759-776, **2021**.
3. Lima MNN, Borba JVB, **CASSIANO GC**, Mottin M, Mendonça SS, Silva AC, Tomaz KCP, Calit J, Bargieri DY, Costa FTM, Andrade CH. Artificial Intelligence Applied to the Rapid Identification of New Antimalarial Candidates with Dual-Stage Activity. *ChemMedChem*, 16(7):1093-1103, **2021**.
4. Arruda JEG, Freitas FB, **CASSIANO GC**, Ishak R, Machado RLD, Póvoa MM, Vallinoto ACR. The Polymorphism rs2234767 (-1377 G>A) in the *FAS* Gene May be Associated with Plasmodium vivax Infection in the Brazilian Amazon. *Braz J Dev* 7:7605-7613, **2021**.
5. Capobianco MP, **CASSIANO GC**, Storti-Melo LM, Pimenta TS, Rodrigues APD, Arruda JEG, Pinto MR, Baptista ARS, Pratt-Riccio LR, Bonini-Domingos CR, de Oliveira-Ferreira J, Machado RLD. Polymorphism in the IL-1 $\beta$  promoter is associated with IgG antibody response to circumsporozoite protein repeats of Plasmodium vivax. *Trans R Soc Trop Med Hyg*, 114(11):858-865, **2020**.
6. Ferreira LT, Rodrigues J, **CASSIANO GC**, Tavella TA, Tomaz KCP, Baia-da-Silva DC, Souza MF, Lima MNDN, Mottin M, Almeida LD, Calit J, Puça MCSB, Melo GC, Bargieri DY, Lopes SCP, Lacerda MVG, Bilsland E, Sunnerhagen P, Neves BJ, Andrade CH, Cravo PVL, Costa FTM. Computational Chemogenomics Drug Repositioning Strategy Enables the Discovery of Epirubicin as a New Repurposed Hit for Plasmodium falciparum and P. vivax. *Antimicrob Agents Chemother*, 64(9):e02041-19, **2020**.
7. Neves BJ, Braga RC, Alves VM, Lima MNN, **CASSIANO GC**, Muratov EN, Costa FTM, Andrade CH. Deep Learning-driven research for drug discovery: Tackling Malaria. *PLoS Comput Biol*, 16(2):e1007025, **2020**.
8. Lima MNN, **CASSIANO GC**, Tomaz KCP, Silva AC, Sousa BKP, Ferreira LT, Tavella TA, Calit J, Bargieri DY, Neves BJ, Costa FTM, Andrade CH. Integrative Multi-Kinase Approach for the Identification of Potent Antiplasmodial Hits. *Front Chem*, 7:773, **2019**.
9. Lima MN, Neves BJ, **CASSIANO GC**, Gomes MN, Tomaz KC, Ferreira LT, Tavella TA, Calit J, Bargieri DY, Muratov EN, Costa FT, Andrade CH. Chalcones as a basis for

- computer-aided drug design: innovative approaches to tackle malaria. *Future Med Chem*, 11(20):2635-2646, **2019**.
10. Pratt-Riccio LR, Baptista BO, Torres VR, Bianco-Junior C, Perce-Da-Silva DS, Riccio EKP, Lima-Junior JDC, Totino PRR, **CASSIANO GC**, Storti-Melo LM, Machado RLD, de Oliveira-Ferreira J, Banic DM, Carvalho LJM, Daniel-Ribeiro CT. Chloroquine and mefloquine resistance profiles are not related to the circumsporozoite protein (CSP) VK210 subtypes in field isolates of *Plasmodium vivax* from Manaus, Brazilian Amazon. *Mem Inst Oswaldo Cruz*, 114:e190054, **2019**.
  11. Bastos MF, Albrecht L, Gomes AM, Lopes SC, Vicente CP, de Almeida RP, **CASSIANO GC**, Fonseca RJ, Werneck CC, Pavão MS, Costa FT. A new heparan sulfate from the mollusk *Nodipecten nodosus* inhibits merozoite invasion and disrupts rosetting and cytoadherence of *Plasmodium falciparum*. *Mem Inst Oswaldo Cruz*, 114:e190088, 2019.
  12. Pippione AC, Sainas S, Goyal P, Fritzson I, **CASSIANO GC**, Giraudo A, Giorgis M, Tavella TA, Bagnati R, Rolando B, Caing-Carlsson R, Costa FTM, Andrade CH, Al-Karadaghi S, Boschi D, Friemann R, Lolli ML. Hydroxyazole scaffold-based *Plasmodium falciparum* dihydroorotate dehydrogenase inhibitors: Synthesis, biological evaluation and X-ray structural studies. *Eur J Med Chem*, 163:266-280, **2019**.
  13. Bittencourt NC, Leite JA, Silva ABIE, Pimenta TS, Silva-Filho JL, **CASSIANO GC**, Lopes SCP, Dos-Santos JCK, Bourgard C, Nakaya HI, da Silva Ventura AMR, Lacerda MVG, Ferreira MU, Machado RLD, Albrecht L, Costa FTM. Genetic sequence characterization and naturally acquired immune response to *Plasmodium vivax* Rhoptry Neck Protein 2 (PvRON2). *Malar J*, 17(1):401, **2018**.
  14. Lima MNN, Melo-Filho CC, **CASSIANO GC**, Neves BJ, Alves VM, Braga RC, Cravo PVL, Muratov EN, Calit J, Bargieri DY, Costa FTM, Andrade CH. QSAR-driven design and discovery of novel compounds with antiplasmodial and transmission blocking activities. *Front Pharmacol*, 9:146, **2019**.
  15. Bittencourt Chaves L, Perce-da-Silva DS, Rodrigues-da-Silva RN, Martins da Silva JH, **CASSIANO GC**, Machado RL, Pratt-Riccio LR, Banic DM, Lima-Junior JD. *Plasmodium vivax* Cell Traversal Protein for Ookinetes and Sporozoites (PvCeITOS) gene sequence and potential epitopes are highly conserved among isolates from different regions of Brazilian Amazon. *PLoS Negl Trop Dis*, 11(2):e0005344, **2018**.
  16. **CASSIANO GC**, Furini AA, Capobianco MP, Storti-Melo LM, Cunha MG, Kano FS, Carvalho LH, Soares IS, Santos SE, Póvoa MM, Machado RL. Polymorphisms in B cell co-stimulatory genes are associated with IgG antibody responses against blood-stage proteins of *Plasmodium vivax*. *PLoS One*, 11(2):e0149581, **2016**.
  17. Furini AA, **CASSIANO GC**, Petrolini Capobianco M, Dos Santos SE, Dantas Machado RL. Frequency of TNFA, INFG, and IL10 Gene polymorphisms and their association with malaria vivax and genomic ancestry. *Mediators of Inflamm*, 2016:5168363, **2016**.

18. **CASSIANO GC**, Furini AA, Capobianco MP, Storti-Melo LM, Almeida ME, Barbosa DR, Póvoa MM, Nogueira PA, Machado RL. Immunogenetic markers associated with a naturally acquired humoral immune response against an N-terminal antigen of Plasmodium vivax merozoite surface protein 1 (PvMSP-1). *Malar J*, 15:306, **2016**.
19. Gomes MD, Vieira JL, **CASSIANO GC**, Musset L, Legrand E, Nacher M, Couto VS, Machado RL, Couto AA. Evaluation of circumsporozoite protein of Plasmodium vivax to estimate its prevalence in Oiapoque, Amapá state, Brazil, bordering French Guiana. *Rev Inst Med Trop Sao Paulo*, 58:72, 2016.
20. Furini AA, Capobianco MP, Storti-Melo LM, Cunha MG, **CASSIANO GC**, Machado RL. Cytokine gene polymorphisms are not associated with anti-PvDBP, anti-PvAMA-1 or anti-PvMSP-119 IgG antibody levels in a malaria-endemic area of the Brazilian Amazon. *Malar J*, 15(1):374, **2016**.
21. Ribeiro B de P, **CASSIANO GC**, de Souza RM, Cysne DN, Grisotto MA, de Azevedo dos Santos AP, Marinho CR, Machado RL, Nascimento FR. Polymorphisms in Plasmodium vivax Circumsporozoite Protein (CSP) Influence Parasite Burden and Cytokine Balance in a Pre-Amazon Endemic Area from Brazil. *PLoS Negl Trop Dis*, 10(3):e0004479, **2016**.
22. Santos E de A, Primo DG, Sucupira IMC, **CASSIANO GC**, Barbosa DRL, Viana GMR, Machado RLD, Póvoa MM. Frequency of Plasmodium vivax circumsporozoite protein genotypes in humans and anopheline mosquitoes in an endemic area of southeastern Pará State, Brazil. *Rev Pan-Amaz Saude*, 4(7), 57-64, **2016**.
23. **CASSIANO GC**, Santos EJ, Maia MH, Furini Ada C, Storti-Melo LM, Tomaz FM, Trindade PC, Capobianco MP, Amador MA, Viana GM, Póvoa MM, Santos SE, Machado RL. Impact of population admixture on the distribution of immune response co-stimulatory genes polymorphisms in a Brazilian population. *Hum Immunol*, 76(11):836-42, **2015**.
24. Tomaz FM, da Cruz Furini AA, Capobianco MP, Póvoa MM, Trindade PC, Fraga VD, Conceição LM, de Azevedo LR, Oliani SM, **CASSIANO GC**, Cavasini CE, Dos Santos SE, Machado RL. Humoral immune responses against the malaria vaccine candidate antigen Plasmodium vivax AMA-1 and IL-4 gene polymorphisms in individuals living in an endemic area of the Brazilian Amazon. *Cytokine*, 74(2):273-8, **2015**.
25. Capobianco MP, **CASSIANO GC**, Furini AA, Storti-Melo LM, Pavarino EC, Galbiatti AL, Fraga VD, Conceição LM, Couto VS, Couto AA, Machado RL. No evidence for association of the CD40, CD40L and BLYS polymorphisms, B-cell co-stimulatory molecules, with Brazilian endemic Plasmodium vivax malaria. *Trans R Soc Trop Med Hyg*, 107(6):377-83, **2013**.
26. de Godoy EAM, Junior JES, Belloto MVT, de Moraes MVP, **CASSIANO GC**, Volotão ACC, Luvizotto MCR, Carareto CMA, Silva MCM, Machado RLD. Molecular investigation of zoonotic genotypes of Giardia intestinalis isolates in humans, dogs and

- cats, sheep, goats and cattle in Araçatuba (São Paulo State, Brazil) by the analysis of  $\beta$ -giardin gene fragments. *Microbiol Res*, v. 4:e6, **2013**.
27. Storti-Melo LM, da Costa DR, Souza-Neiras WC, **CASSIANO GC**, Couto VS, Póvoa MM, Soares Ida S, de Carvalho LH, Arevalo-Herrera M, Herrera S, Rossit AR, Cordeiro JA, de Mattos LC, Machado RL. Influence of HLA-DRB-1 alleles on the production of antibody against CSP, MSP-1, AMA-1, and DBP in Brazilian individuals naturally infected with *Plasmodium vivax*. *Acta Trop*, 121(2):152-5, **2012**.
28. **CASSIANO GC**, Storti-Melo LM, Póvoa MM, Galardo AK, Rossit AR, Machado RL. Development of PCR-RFLP assay for the discrimination of *Plasmodium* species and variants of *P. vivax* (VK210, VK247 and *P. vivax*-like) in *Anopheles* mosquitoes. *Acta Trop*, 118(2):118-22, **2011**.
29. Storti-Melo LM, Souza-Neiras WC, **CASSIANO GC**, Taveira LC, Cordeiro AJ, Couto VS, Póvoa MM, Cunha MG, Echeverry DM, Rossit AR, Arévalo-Herrera M, Herrera S, Machado RL. Evaluation of the naturally acquired antibody immune response to the Pv200L N-terminal fragment of *Plasmodium vivax* merozoite surface protein-1 in four areas of the Amazon Region of Brazil. *Am J Trop Med Hyg*, 84(2 Suppl):58-63, **2011**.
30. Carvalho DB, de Mattos LC, Souza-Neiras WC, Bonini-Domingos CR, Cósimo AB, Storti-Melo LM, **CASSIANO GC**, Couto AA, Cordeiro AJ, Rossit AR, Machado RL. Frequency of ABO blood group system polymorphisms in *Plasmodium falciparum* malaria patients and blood donors from the Brazilian Amazon region. *Genet Mol Res*, 9(3):1443-9, **2010**.
31. Storti-Melo LM, da Costa DR, Souza-Neiras WC, **CASSIANO GC**, Bonini-Domingos CR, Rossit ARB, de Mattos LC, Machado RLD. The frequency of HLA-DRB1 polymorphisms in Brazilian *Plasmodium vivax* malaria patients and in blood donors from the Amazon Region. *Rev Pan-Amaz Saude*, 1(4), 51-55, 2010.
32. Souza-Neiras WC, Storti-Melo LM, **CASSIANO GC**, Couto VS, Couto AA, Soares IS, Carvalho LH, Cunha MG, Póvoa MM, Herrera S, Herrera MA, Rossit AR, Carareto CM, Machado RL. *Plasmodium vivax* circumsporozoite genotypes: a limited variation or new subspecies with major biological consequences? *Malar J*, 9:178, **2010**.
33. Storti-Melo LM, de Souza-Neiras WC, **CASSIANO GC**, Joazeiro AC, Fontes CJ, Bonini-Domingos CR, Couto AA, Póvoa MM, de Mattos LC, Cavasini CE, Rossit AR, Machado RL. *Plasmodium vivax* circumsporozoite variants and Duffy blood group genotypes in the Brazilian Amazon region. *Trans R Soc Trop Med Hyg*, 103(7):672-8, **2009**.

#### Book Chapter

1. **CASSIANO GC**, Tavella TA, Nascimento MN, Rodrigues DA, Cravo PVL, Andrade CH, Costa FTM. Targeting malaria protein kinases. *Adv Protein Chem Struct Biol*. 124:225-274, **2021**.

2. Tavella TA, **CASSIANO GC**, Costa FTM, Sunnerhagen P, Bilsland E. Yeast-based high-throughput screens for discovery of kinase inhibitors for neglected diseases. *Adv Protein Chem Struct Biol*, 124:275-309, **2021**.
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## SELECTED PRESENTATIONS

### Invited Talks

1. “Artificial intelligence to accelerate anti-malarial drug discovery” in Fourth GHTM Antimicrobial Resistance Awareness Day. Portugal, November **2020**.
2. “Identifying drugs against malaria” in X Simpósio de Biomedicina. Brazil, October **2020**.
3. Computer-aided drug discovery approaches against malaria” in Global Health & Tropical Medicine Sessions. Portugal, December **2018**.

### Talks

1. “Polymorphisms in B cell co-stimulatory genes are associated with IgG antibody responses against blood-stage proteins of *Plasmodium vivax*” in XIV Reunião Nacional de Pesquisa em Malária. Brazil, September **2015**.

### Posters

1. **CASSIANO GC**, Tomaz KCP, Lima MNN, Ferreira LT, Tavella TA, Mottin M, Lopes D, Clarys D, Lopes SCP, Lacerda MV, Braga R, Andrade CH, Cravo PVL, Costa FTM. *Search for Plasmodium cGMP-dependent protein kinase inhibitors identifies a highly effective benzoquinoline against different life-stages*. In: 7<sup>th</sup> International Conference on Plasmodium vivax Research, France, **2019**.
2. **CASSIANO GC**, Neves BJ, Tavella, TA, Ferreira LT, Tomaz KCP, Braga R, Calit J, Bargieri DY, Amino R, Andrade CH, Costa FTM. *Discovery of new naphthoquinones as a promising antimalarial agent*. In: 54 Congresso da Sociedade Brasileira de Medicina Tropical, Brazil, **2018**.
3. **CASSIANO GC**, Tavella TA, Braga RC, Mottin M, Neves BJ, Nascimento MN, Cravo PV, Andrade CH, Costa FTM. *Protein kinases as potential drug targets for new antimalarial drugs*. In: 6<sup>th</sup> International Conference on Plasmodium vivax Research. Brazil, **2017**.
4. **CASSIANO GC**, Braga R, Mottin M, Neves BJ, Nascimento MN, Tavella, TA, Cravo PVL, Andrade CH, Costa FTM. *Identification of novel kinase inhibitors of Plasmodium PK9 through structure-based virtual screening*. In: 8<sup>th</sup> Brazilian Symposium on Medicinal Chemistry. Brazil, **2016**.



5. Furini AAC, **CASSIANO GC**, Tomaz FM, Capobianco MP, Póvoa MM, Encinas M, Madi DL, Trindade PC, Fraga VD, Conceição LM, Machado RLD. *Study on association between genetic polymorphisms of Tumor Necrosis Factor-alpha, interleukin-10, Interferon-gama, and malaria vivax in Brazil*. In: American Society of Tropical Medicine and Hygiene 63<sup>rd</sup> Annual Meeting. USA, **2014**.
  6. **CASSIANO GC**, Capobianco MP, Furini AAC, Tomaz FM, Trindade PC, Melo LMS, Póvoa MM, Machado RLD. *Polymorphisms in costimulatory genes do not affect Plasmodium vivax parasite density*. In: American Society of Tropical Medicine and Hygiene 62<sup>st</sup> Annual Meeting. USA, **2013**.
  7. **CASSIANO GC**, Capobianco MP, Furini AAC, Storti-Melo LM, Fraga VD, Conceição LM, Machado RLD. *Individual and epistatic effects of genetic polymorphisms of CD40, CD40L and BLYS genes, co-stimulatory molecules on susceptibility to Plasmodium vivax malaria*. In: American Society of Tropical Medicine and Hygiene 61<sup>st</sup> Annual Meeting. USA, **2012**.
  8. **CASSIANO GC**, Storti-Melo LM, Souza-Neiras WC, Rossit ARB, Zamaro PJA, Torres FR, Chakraborty A, Bonini-Domingos CR, Machado RLD. *Association between alpha thalassemia and Plasmodium vivax blood infection levels in Brazilian Amazon region*. In: XVIII International Congress for Tropical Medicine and Malaria. Brazil, **2012**.
  9. **CASSIANO GC**, Storti-Melo LM, Póvoa MM, Rossit ARB, Machado RLD. *HLA-DRB-1 alleles and immune response against MSP-1, AMA-1 and DBP in Brazilian individuals naturally infected with Plasmodium vivax*. In: XIV Congreso Latinoamericano de Genética. Chile, **2010**.
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## SERVICE

### Reviewer in scientific journals

1. Cells (IF = 4.83), **2021**.
2. Computational and Structural Biotechnology Journal (IF = 7.27), **2021**.
3. Gene Reports (IF = 0.72), **2021**.
4. Microbial Pathogenesis (IF = 2.91), **2018**.
5. Clinical and Experimental Immunology (IF = 3.53), **2016**.
6. Revista do Instituto de Medicina Tropical de São Paulo (IF = 1.46), **2012**.

### Jury of academic degree

1. Lana Bitencourt Chaves. Ph.D. examination at Fundação Oswaldo Cruz (FIOCRUZ), **2022**.
2. Juliana Aline de Souza Lemos. Master examination at Fundação Oswaldo Cruz (FIOCRUZ), **2021**.
3. Sabrina Silva Mendonça. Ph.D. examination at Universidade Federal de Goiás (UFG), Brazil, **2021**.
4. Letícia Cardoso Orlandini. Master examination at Universidade Estadual Paulista (UNESP), Brazil, **2018**.

5. Juliana Rodrigues. Ph.D. examination at Universidade Federal de Goiás (UFG), Brazil, **2018**.
6. Patricia Pereira do Nascimento. Ph.D. examination at Universidade Estadual Paulista (UNESP), Brazil, **2018**.
7. Marina Neves Ferreira. Bachelor's examination at Universidade Estadual Paulista (UNESP), Brazil, **2015**.
8. Mariana Salvarani. Bachelor's examination at Universidade Estadual Paulista (UNESP), Brazil, **2015**.
9. Vanessa Leiko Oikawa Cardoso. Bachelor's examination at Universidade Estadual Paulista (UNESP), Brazil, **2015**.
10. Amanda Priscila de Oliveira. Ph.D. examination at Faculdade de Medicina de São José do Rio Preto (FAMERP), Brazil, **2014**.

#### Member of event organization committees

1. XIII Simpósio de genética. Universidade Estadual Paulista (UNESP), Brazil. November 10-12, **2010**.
2. XI Simpósio de genética. Universidade Estadual Paulista (UNESP), Brazil. October 30 – November 01, **2008**.

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## TEACHING

1. Invited teaching assistant  
Title: Updated Approaches in Immunology  
Course ministered by the Post-graduation program in Genetics at Universidade Estadual de Campinas (UNICAMP). Campinas, Brazil.  
Assisting the Prof. Dr. Fabio Trindade Maranhão Costa.  
Duration: May 5-19, **2018**.
2. Tutoring  
Title: Primer in Computer-Aided Drug Design for Tropical Diseases  
Course ministered during the 1º Workshop New Approaches to Drug Discovery against Tropical Diseases, organized by the Universidade Estadual de Campinas (UNICAMP) and the University of Gothenburg. Campinas, Brazil.  
Assisting the Profs. Drs. Pedro Cravo and Carolina Horta Andrade.  
Duration: June 6-10, **2016**.
3. Invited teaching assistant  
Title: Bioinformatic tools applied to parasitology  
Course ministered by the Post-graduation program in Genetics at Universidade Estadual Paulista (UNESP). São José do Rio Preto, Brazil.  
Assisting the Prof. Dr. Ricardo Luiz Dantas Machado  
Duration: May 22-29, **2015**.
4. Instructor  
Title: Training in Molecular Biology and Bioinformatic Techniques  
Training ministered to research team of Laboratório de Pesquisas Básicas em Malária at Instituto Evandro Chagas (IEC). Belém, Brazil.

Duration: October 14-30, **2013**.

5. Instructor

Title: Identifying *Plasmodium vivax* CS-variants in *Anopheles* mosquitoes by PCR-RFLP  
Training ministered to research team of Laboratório de Pesquisas Básicas em Malária at  
Instituto Evandro Chagas (IEC). Belém, Brazil.

Duration: October 12-21, **2011**.

6. Teaching Assistantship

Evolution I

Course ministered (60h) to graduate students of Biology at Universidade Estadual  
Paulista (UNESP). São José do Rio Preto, Brazil.

Assisting the Profa. Dra. Lilian Madi Ravazzi.

Duration: First semester **2011**.

7. Teaching Assistantship

Parasitology

Course ministered (60h) to graduate students of Biology at Universidade Estadual  
Paulista (UNESP). São José do Rio Preto, Brazil.

Assisting the Profa. Dra. Lilian Cassati.

Duration: First semester **2009**.

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## SUPERVISION

1. NEK family protein kinases as drug targets in malaria. Luis Carlos Salazar Alvarez. Ph.D. thesis – ongoing. Universidade Estadual de Campinas (UNICAMP). Role: Co-advisor. Begin: **2018**.
2. Virtual screening and experimental validation of Casein kinases (CK) inhibitors from *Plasmodium* spp. with antimalarial potential. Kaira Cristina Peralis Tomaz. M.Sc. thesis. Universidade Estadual de Campinas (UNICAMP). Role: Co-advisor. **2018-2021**.
3. The Plasmodium cGMP-dependent protein kinase (PKG) as potential drug target for new antimalarial drugs. Kaira Cristina Peralis Tomaz. Undergraduate research. Universidade Estadual de Campinas (UNICAMP). Role: Advisor. **2017**.
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## INDICATORS OF SCIENTIFIC ACTIVITY

Papers published: 32

Currently Doctoral thesis supervisions: 1

Completed Masters thesis supervisions: 1

Posters presentations: 52

Web of Science Citations: 189, H-Factor 8

