

CURRICULUM VITAE

Celia R. S. Garcia, PhD

Professor

Department of Clinical and Toxicological Analyses

School of Pharmaceutical Sciences, University of São Paulo

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Education:

Undergraduate

- Institute of Chemistry - Universidade Federal do Rio de Janeiro, 1982 (Bs Chemistry)

Graduate

- Institute of Biophysics - Universidade Federal do Rio de Janeiro, M. Sc., 1987 (Biochemistry)
- Institute of Biophysics Universidade Federal do Rio de Janeiro, PhD, 1990 (Biochemistry)

University Appointments

- Physiology, Pharmacology and Neurosciences Department – Rutgers Medical School New Jersey- US Professor 2013 – present.
- Department of Clinical and Toxicological Analyses- FCF- University of São Paulo – Brazil Professor 2018 – present.
- Department of Physiology – University of Sao Paulo – Brazil Professor 2001- 2018.
- Physiology and Pharmacology Department –Medical School New Jersey- US Adjunct Professor 2011 – 2013.
- New York University, Pathology Department – New York – USA. Visiting Professor 2004 – 2005.
- Department of Physiology - University of Sao Paulo – Brazil Associated Professor 1999 – 2001.
- Department of Physiology - University of Sao Paulo – Brazil Assistant Professor 1995 - 1998.

Awards and Honors:

- John Simon Guggenheim Memorial Foundation Fellow 2003
- Member of the Brazilian Academy of Sciences 2018
- CNPq productivity Fellow – 1 A (2019)

Research Training

Postdoctoral Fellow - Fellowships

Lucas Borges Pereira	FAPESP
Manesh Singh	FAPESP
Myna Nakabashi	Procontes

PhD training

Barbara Dias	CNPq
Mateus Fila Pecenin	FAPESP
Pedro Henrique Scarpelli Pereira	FAPESP

Master training

Benedito Santos	CNPq
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Predoctoral Students (thesis Advisor) –fellowships awarded

PhD Thesis

2005	Flávio Henrique Beraldo de Paiva	FAPESP
2005	Marcos Leoni Gazarini Dutra	FAPESP
2006	Luciana Madeira da Silva	FAPESP
2009	Piero Bagnaresi	FAPESP
2009	Robson Sartorelo	FAPESP
2010	Laura Nogueira	FAPESP
2012	Fernanda Koyama	FAPESP
2013	Alexandre Budu	FAPESP

2013	Desiree Schuck	CAPES
2013	Eduardo Alves	FAPESP
2016	Lucas Borges	FAPESP
2018	Maneesh Kumar Singh	CAPES

MSc Thesis

2001	Flávio Henrique Beraldo de Paiva	FAPESP
2001	Marcos Leoni Gazarini Dutra	FAPESP
2002	Fernando Pilla Varotti	FAPESP
2002	Carlos Takeshi Hotta	FAPESP
2003	Robson Sartorello	FAPESP
2010	Ramira Yuri Ribeiro	CAPES
2014	Gepoliano Santos	CAPES
2016	Fahyme Costa	CAPES

Postdocs

2005	Marcos Leoni Gazarini Dutra	FAPESP
2006	Mauro Ferreira de Azevedo	FAPESP
2009	Dario Passos	FAPESP
2009	Robson Sartorello	CNPq
2012	Chiara Curra	FAPESP
2012	Pratibha Gaur	CNPq
2012	Abhinay Sharma	CNPq
2013	Julio Levano Garcia	FAPESP
2013	Wania Rezende Lima	FAPESP
2013	Alexandre Budu	CNPq
2015	Laura Nogueira Cruz	FAPESP
2016	Giulliana Tessarin e Almeida	FAPESP
2017	Kenia Lopes Viçoso	FAPESP
2018	Miriam Moraes	FAPESP

STUDENTS AND POSTDOCS GO INTERNATIONAL

Laura Nogueira Cruz (PhD student). Internship in the laboratory of Prof. Michael Nathanson, Yale University, Yale, USA. 2008-2009 Funding agency: Fapesp and NIH.

Eduardo Alves (PhD student). Internship in the laboratory of Prof. Andrew P. Thomas, Rutgers University, Newark, USA. 2009-2010. Funding agency: FAPESP and NIH.

Alexandre Budu (PhD student). Internship in the laboratory of Prof. Tulio Pozzan, Padova University. 02/2010 to 03/2010. Funding agency: FAPESP

Fernanda K. Koyama (PhD student). Internship in the laboratory of Prof. Debopam Chakrabarti, Burnett School of Biomedical Sciences, Orlando, USA 2010 Funding agency: FAPESP

Julio Levano Garcia. (Postdoctoral fellow) Internship in the laboratory of Prof. Andrew P. Thomas, Rutgers University. 2011 Funding agency: NIH.

Lucas Borges Pereira (PhD student). Internship in the laboratory of Prof Silvia Moreno, Center for Tropical and Emerging Global Diseases, UGA, Georgia, USA. 05/2012 to 10/2012. Funding agency: FAPESP

Alexandre Budu (PhD student). Internship in the laboratory of Prof. Silvia Moreno, Center for Tropical and Emerging Global Diseases, UGA, Georgia, USA. 12/2012 to 04/2013. Funding agency: CNPq- INCT

Miriam Santos de Moraes (Postdoctoral fellow). Internship at laboratory of Prof. Andrew P. Thomas, Rutgers University. Newark, USA. January / 2013. Funding agency: NIH

Lucas Borges Pereira (PhD student). Internship in the Prof. Rosario Rizzuto, Padova University, Padova, Italy. 05/2015 to 08/2015. Funding agency: CNPq

Laura Nogueira Cruz (Postdoctoral fellow). Internship in the laboratory of Prof. Alister Craig University of Liverpool, England. 2012-2013. Funding agency: FAPESP

Giulliana Tessarin Almeida. (Postdoctoral fellow) Internship in the laboratory of Prof. Jude Przyborski. Philipps University of Marburg (Marburg, Germany). 2015-2016. Funding agency: FAPESP

Lucas Borges Pereira (Postdoctoral fellow). Internship at laboratory of Prof. Andrew P. Thomas, Rutgers University. Newark, USA. 04/2016 to 09/2016. Funding agency: NIH

Pedro Scarpelli Pereira (PhD student). Internship in the laboratory of Prof. David Fidock. Columbia University, New York, USA. 12/2016 to 06/2017 Funding agency: FAPESP

Maneesh Kumar Singh (PhD student). Internship in the laboratory of Prof. Andrew P. Thomas, Rutgers University. Newark, USA. : 2018 Funding agency: NIH.

Undergraduated students

- Flávio Henrique Beraldo de Paiva. March 1997 - March 1999. CNPq.
- Marcos Leoni Gazzarini Dutra. March 1997 - March 1999. CNPq.

- Carlos Alexandre Oliveira Sígolo. October 1997 - July 2000, PIBIC/CNPq. April 2001 - December 2001, FAPESP.
- Fernando Del Pilla Varotti. March 1998 - March 1999.
- Carlos Takeshi Hotta. September 1998 - July 2000, PIBIC / CNPq. August 2000 - December 2000, FAPESP.
- Renata D. Lanari. February 1999 - December 2000.
- Robson Sartorello. May 2000 - December 2000, FAPESP.
- Rafael Peres. 2003-2004, PIBIC/CNPq.
- Piero Bagnaresi. 2003-2005, CNPq.
- Eduardo Alves dos Santos. October 2003 - December 2005, PIBIC/CNPq.
- Mônica Teixeira Leal. November 2003 - November 2004.
- Henrique Borges. 2006, PIBIC/CNPq.
- Alexandre Budu. April 2006 - December 2006, FAPESP.
- Saulo Henrique Pires de Oliveira. 2008, PIBIC/CNPq.
- Bruna Rafaela Koresch. August 2012 – July 2013, PIBIC/CNPq.
- Gabriela dos Santos Brito. September 2014 - September 2015, FAPESP
- Ricardo Mendes Cresta. June 2016 – May 2017, FAPESP.
- Camila Lie Kiyann. June 2016 – October 2017, FAPESP.

Alumni (data from 2016)

1. Dr Eduardo Alves, Researcher -A*STAR SigN, The Agency for Science, Technology and Research, Singapore Immunology Network, Singapore
2. Dr Wania Rezende Lima, Professor Instituto de Ciências Federal University of Mato Grosso, Campus Rondonópolis, Mato Grosso, Brazil
3. Dr Abhinay Sharma, Alexander Von Humboldt Post-Doc Department of Vaccinology and Applied Microbiology, Helmholtz Center for Infection Research, Germany
4. Dr Carlos Takeshi Hotta, Professor, Departamento de Bioquímica, IQ- USP, São Paulo, Brazil.
5. Dr Desiree Schuck, Researcher, Grupo Boticário, Porto Alegre, Rio Grande do Sul, Brazil
6. Dr Fernanda Koyama, Researcher -Hospital Sírio-Libanês, São Paulo, Brazil
7. Dr Fernando Pilla Varotti, Professor, Federal University of São João Del-Rei, Minas Gerais, Brazil
8. Dr Flávio Henrique Beraldo de Paiva, Researcher, Robarts Research Institute, Canadá.
9. Ms Gepoliano Santos PhD, Genome Techonology Center, Santa Cruz, California, USA.

10. Dr Luciana Madeira da Silva, Professor, University of South Alabama, Mitchell Cancer Institute, USA.
11. Dr Mauro Ferreira de Azevedo, Young investigator FAPESP, UNIFESP, Santos, Brazil
12. Dr Marcos Leoni Gazarini Dutra, Professor, UNIFESP, Campus Santos, Brazil
13. Dra Pratibha Gaur, Post-doc, Department of Vaccinology and Applied Microbiology, Helmholtz Center for Infection, Germany.

Editorial board and advisory member*

- Tropical Biomedicine (2008-)
- Molecular and Biochemical Parasitology (2010-)
- Cellular and Molecular Life Sciences (2012-2018)
- Cellular and Molecular Life Sciences (2019-2021)
- Current Opinion in Microbiology (2014-)
- Methods X (2014-)
- Current Topics in Medicinal Chemistry (2018-)

Other Professional activities:

Reviewer for the Journals: Cell Calcium, Journal of Eukaryotic Microbiology, Molecular Biochemical Parasitology, Experimental Parasitology, Plos Medicine, Plos One, Molecular Microbiology, Cellular Microbiology, Microbiology, Nature Medicine, Nature, European Journal of Medicinal Chemistry, Scientific Reports.

International Liaison for South American Programs. Graduate School of Biomedical Science at New Jersey Medical School, Rutgers, The State University of New Jersey (2015- present).

Director of the Nucleus for Research on Cellular Signaling on Pathogen- Host Cell Interaction (2012-2018) – University of São Paulo

Committees:

International Member of Health Sciences Advisory Committee - Molecular and Genetic Medicine and

Immunology. Foundation of Science and Technology, Ministry of Science and Technology of Portugal. Portugal. September, 2000, November, 2001 and 2002.

Evaluation Committee of Graduate Programs of the Biological Sciences Area – CAPES – Brasília October, 2001.

Advisory committee for Ministry of Health, Department of Science and Technology for discussing Research priorities for neglected diseases. Brasília, April, 2006.

Evaluation Committee in the judgment of the proposals submitted to FAPERJ, November 2006 and September, 2007.

Evaluation Committee in the judgment of the proposals submitted to FAPERJ. May - November 2008.

Member of CNPq External Committee for selective process of undergraduate program PIBIC of the Pontifical Catholic University (PUC) Campinas, SP. 2008.

Evaluation Committee in the judgment of the proposals submitted to FAPERJ, May-September 2009.

Committee for CAPES Triennial Evaluation of the Biological Sciences I Area. Brasília, DF. August, 2010.

Member of the Graduate program at the Physiology Department- Biosciences Institute USP, 2008-2010

Evaluation Committee in the judgment of the proposals submitted to FAPERJ March-October 2010.

Evaluation Committee in the judgment of the proposals submitted to FAPERJ. April, 2011.

Member of the Committee of Science without Borders Program – Young Talents Fellowship (BJT) and MEC/MCTI/CAPES/CNPq/FAPs - Brasília, April, 2012.

Evaluation Committee in the judgment of the proposals submitted to FAPERJ August, 2012.

Member of the Committee of MEC/MCTI/CAPES/ CNPq/FAPs 70/2013 - Science without Borders Program – Young Talents Fellowship – Brasília - 2013.

Evaluation Committee in the judgment of the proposals submitted to FAPERJ July-August 2013.

Member of the Committee of MEC/MCTI/CAPES/ CNPq/FAPs 70/2013 – Science without Borders Program –Brasília, September 2013 to November 2014.

Triennial Evaluation Committee CAPES 2013 for Biological Sciences Area. Brasília, DF. October, 2013.

Evaluation Committee in the judgment of the proposals submitted to FAPERJ April- December 2015.

International Committee at SNSF (Swiss National Science Foundation). Bern, Switzerland. November, 2015.

Member of USP (University of São Paulo) Research Office Advisory Group of Programs and Events. São Paulo, SP. 2016 2017

Council member for Physiology Department Biosciences Institute USP (University of São Paulo) 2000-

2017.

Council Member of Biosciences Institute, USP (University of São Paulo) 2000-2015.

Member of the Publishing evaluation Committee for the Brazilian Journals MCTI/CNPq/MEC/CAPES, Brasilia -2013-2016.

Member of the Publishing evaluation Committee for the Brazilian Journals MCTI/CNPq/MEC/CAPES, Brasilia 2017-2019.

Member of Undergraduate committee for the Clinical Analysis and Toxicology at the School of Pharmaceutical Sciences- USP (University of São Paulo) 2019-2021.

Grant History

Research project; Cell biology of *Plasmodium*

FAPESP: Project 93/4751-5 (1993-1995)

Research project: Molecular and cell Biology aspects of malarial parasites

FAPESP: Project 95/9996-1 (1996-1998)

Research Project: Molecular and cell Biology aspects of malarial parasites: Comparatives Aspects of Signal Transduction on parasite-host

FAPESP Thematic: Project 98/0410-2 (1998-2003)

Acquisition of confocal Microscopy: Monitoring Calcium in living systems

FAPESP: Project 98/11220-0 (1999-2002)

Research Project: Molecular basis for signal transduction of malarial parasite cell cycle

FAPESP Thematic - Project 02/06194-7 (2003-2007)

Research Project: Functional *Plasmodium* Genome: Aspects of modulation of gene expression

MCT- CNPq - MS Project (2007-2009)

Research Project: Functional *Plasmodium* Genome:

FAPESP Thematic - Project 07/52924-0 (2008-2012)

Research Project: Chloroquine resistance in *Plasmodium falciparum*
FAPESP Thematic – 09/53640-1 (2010- 2013)

Research Project: Functional *Plasmodium* Genome:
FAPESP Thematic - Project 11/51295-5 (2012-2018)

Current funding:

Research Project: Malaria melatonin receptor signaling as a novel drug target
NIH project 1R01AI099277-01 (2012-2018)
Principal Investigator: Andrew Thomas
Co- Investigator: Celia R. S. Garcia

Research Project: FAPESP acquisition of an Imaging system- Project 18/07177-7 (2018-2025)

Research Project: Decoding *Plasmodium* signaling at molecular level as a new tool to the development of new antimalarials
FAPESP Thematic - Project 17/08684/7 (2019-2024)

Publications:

1. SCARPELLI, P.; ALMEIDA, G.T.; VIÇOSO, K. L.; LIMA, W. R.; PEREIRA, L. B.; MEISSNER, K. A.; WRENGER, C.; RAFAELLO, A.; RIZZUTO, R.; POZZAN, T.; **GARCIA, C.R.S.** Melatonin activates FIS1, DYN1 and DYN2 *Plasmodium falciparum* genes for mitochondria fission mitoemerald-GFP as a tool to visualize mitochondria structure. J Pineal Res. jpi.12484. 2019
2. PECENIN, M.F.; BORGES-PEREIRA, L.; LEVANO GARCIA, J.; BUDU, A.; ALVES E.; MIKOSHIBA K.; THOMAS A.; **GARCIA, C.R.S.** Blocking IP3 signal transduction pathways inhibits melatonin-induced Ca²⁺ signals and impairs *P. falciparum* development and proliferation in erythrocytes. Cell Calcium 72:81-90, 2018.
3. SCARPELLI, P.; CURRA, C.; **GARCIA, C.R.S.** Ubiquitin Proteasome System as a Potential Drug Target for Malaria. Current Topic in Medicinal Chemistry 18(5):315-320, 2018.

4. AGUIAR, A.; PANCIERA, M.; SANTOS, E.; SINGH, M.; GARCIA, M.; SOUZA, M.; NAKABASHI, M.; COSTA, J.; **GARCIA, C.R.S.**; OLIVA, G.; CORREA, R.; GUIDO, R. Discovery of Marinoquinolines as Potent and Fast-Acting *Plasmodium falciparum* Inhibitors with In Vivo Activity. *J. Med Chem.* 61(13):5547-5568, 2018.
5. LEE, A.H.L.; DHINGRA, S. K.; LEWIS, IAN A.; SINGH, M.K.; SIRIWARDANA, A.D.; SEEMA M.; RUBIANO, K.; KLEIN, M.S.; BASKA, K.S.; SANJEEV, K.; MICHAEL, K.; ROEPE, P.D.; LLINÁS, M.; **GARCIA, C.R.S.**; FIDOCK, D.A. Evidence for Regulation of Hemoglobin Metabolism and Intracellular Ionic Flux by the *Plasmodium falciparum* Chloroquine Resistance Transporter. *Scientific Reports*, v. 8, p. 1-13, 2018.
6. SIDEN-KIAMOS, I; PACE, T; KLONIZAKIS, A.; NARDINI, M.; **GARCIA, C.R.S.**; CURRÀ, C. Identification of *Plasmodium berghei* Oocyst Rupture Protein 2 (ORP2) domains involved in sporozoite egress from the oocyst. *INTERNATIONAL JOURNAL FOR PARASITOLOGY*, v. 7519, p. 30247-30249, 2018.
7. MORAES, M.S.; BUDU, A.; SINGH, M.K.; BORGES-PEREIRA, L.; LEVANO-GARCIA, J.; CURRÀ, C.; PICCI, L.; PACE, T.; PONZI, M.; POZZAN, T.; **GARCIA, C.R.S.** *Plasmodium falciparum* GPCR-like receptor SR25 mediates extracellular K⁺ sensing coupled to Ca²⁺ signaling and stress survival. *Scientific Reports*, v. 7, p. 1-13, 2017.
8. **GARCIA, C.R.S.**; ALVES, E.; PEREIRA, P.H.S.; BARLETT, P.J.; THOMAS, A.; MIKOSHIBA, K.; PLATTNER, H.; SIBLEY, L.D. InsP₃ Signaling in Apicomplexan Parasites. *Current Topics in Medicinal Chemistry (Print)*, v. 17, p. 1-1, 2017.
9. PEREIRA, L. B.; MEISSNER, K. A.; WRENGER, C.; **GARCIA, C.R.S.** *Plasmodium falciparum* GFP-E-NTPDase expression at the intraerythrocytic development stages and its inhibition blocks RBCs invasion by the human malaria parasite. *Purinergic Signalling*, v. 17, p. 1-11, 2017.
10. AGUIAR, A.C.; SOUSA, L. R. F.; **GARCIA, C. R. S.**; OLIVA, G.; GUIDO, RAFAEL V. C. New Molecular Targets and Strategies for Antimalarial Discovery. *CURRENT MEDICINAL CHEMISTRY*, v. 1, p. 1-10, 2017.

11. LIMA, W.R.; MARTINS, D.C.; PARREIRA K.S.; SCARPELLI. P.; MORAES, M.S.; TOPALIS, P.; HASCHIMOTO, R.F.; **GARCIA, C.R.S.** Genome-wide analysis of the human malaria parasite *Plasmodium falciparum* transcription factor PfNF-YB shows interaction with CCAATT motif. *Oncotarget*. Dec 9;8(69):113987, 2017.
12. SODERO, A.C.R.; ABRAHIM-VIEIRA, B.; TORRES, P.H.M.; PASCUTTI, P.G.; **GARCIA, C. R. S.**; FERREIRA, V.F.; ROCHA, D.R.; FERREIRA, S.B.; SILVA-JR, F.P. Insights into cytochrome bc1 complex binding mode of antimalarial 2-hydroxi-1,4-naphthoquinones through molecular modelling. *Memórias do instituto Oswaldo Cruz* v. 112, p. 299-308, 2017.
13. CURRÀ, C.; GESSMANN, R.; PACE, T.; PICCI, L.; PERUZZI, G.; VARAMOGIANNI-MAMATSI, V.; SPANOS, L.; **GARCIA, C.R.S.**; SPACCAPELO, R.; PONZI, M.; SIDEN-KIAMOS, I. Release of Plasmodium sporozoites requires proteins with histone-fold dimerization domains. *Nat Commun*. Dec 16;7:13846. 2016.
14. LIMA, W.R.; TESSARIN-ALMEIDA, G.; ROZANSKI, A.; PARREIRA, K.S.; MORAES, M.; MARTINS-JR, D.C.; HASHIMOTO, R.F.; GALANTE, P.A.F.; **GARCIA, C.R.S.** Signaling Transcript profile of asexual intraerythrocytic development cycle of *Plasmodium falciparum* induced by melatonin and cAMP. *Genes & Cancer*, 7(9-10) 323-339, 2016.
15. CRUZ, L.N.; WU, Y.; ULRICH; H.; CRAIG, A.G.; **GARCIA, C.R.S.** Tumor necrosis factor reduces *Plasmodium falciparum* growth and activates calcium signaling in human malaria parasites. *BBA*. 1860(7)1489-97.2016.
16. GONÇALVES, F.; MORAES, M.; FERREIRA, L.B.; CARREIRA, A.C.O.; KOSSUGUE, P.M.; BOARO, L.C.C.; BENTINI, R.; **GARCIA, C.R.S.**; SOGAYAR, M.C.; ARANA-CHAVEZ, V.E.; CATALANI, L.H. Combination of Bioactive Polymeric Membranes and Stem Cells for Periodontal Regeneration: *In Vitro* and *In Vivo* Analyses. *PLOS One*. 2016 Mar 31;11(3):e0152412. /journal.pone.0152412, 2016.
17. ALVES E.; MALUF, F.V.; BUENO, V.B.; GUIDO, R.V.C.; OLIVA, G.; SINGH M., SCARPELLI, P.; COSTA, F.; SARTORELLO, R.; CATALANI, L.H.; BRADY, D., TEWARI, R.; **GARCIA, C.R.S.** Biliverdin targets enolase and eukaryotic initiation factor 2 (elf2 α) to reduce the growth of

- intraerythrocytic development of the malaria parasite *Plasmodium falciparum*. *Sci. Rep.* 6, 22093; 2016.
18. WU, Y.; CRUZ, L.N.; SZESTAK, T.; LAING, G.; MOLYNEUX, G.R.; **GARCIA, C.R.S.** An external sensing system in *Plasmodium falciparum*-infected erythrocytes. *Malar J.* 2016 Feb 19;15(1):103, 2016.
19. ALVES, E.; IGLESIAS, B.A.; DEDA, D.K.; BUDU, A.; MATIAS, T.A.; BUENO, V.; MALUF, F.V.; GUIDO, R.V.C.; OLIVA, G.; CATALANI, L.H.; ARAKI, K.; **GARCIA, C.R.S.** Encapsulation of metalloporphyrins improves their capacity to block the viability of the human malaria parasite *Plasmodium falciparum*. *Nanomedicine* 11(2):351-8, 2015.
20. BORGES-PEREIRA, L.; BUDU, A.; MCKNIGHT, C.A.; MOORE, C.A.; VELLA, S.A.; HORTUA, T.M.A.; LIU, J.; **GARCIA, C.R.S.**; PACE, D.A.; MORENO, S.N.J. Calcium Signaling Throughout the *Toxoplasma gondii* Lytic Cycle. A Study Using Genetically Encoded Calcium Indicators. *The Journal of Biological Chemistry* v. 15, p. jbc.M115.652511, 2015.
21. LAVOGINA, D.; BUDU, A.; ENKVIST, E.; HOPP, C.S.; BAKER, D.A.; LANGSLEY, G.; **GARCIA, C.R.S.**; URI, A. Targeting *Plasmodium falciparum* protein kinases with adenosine analogue-oligoarginine conjugates. *Experimental Parasitology* v. 138, p. 55-62, 2014.
22. PINTO, M.E.; BATISTA JUNIOR, J.M.; KOEBACH, J.; GAUR, P.; SHARMA, A.; NAKABASHI, M.; CILLI, E.; GIESEL, G.; VERLI, H.; GRUBER, C.; BLANCH, E.; TAVARES, J.; SILVA, M.; **GARCIA, C.R.S.**; BOLZANI, V.S. Ribifolin, an Orbitide from *Jatropha ribifolia*, and Its Potential Antimalarial Activity. *Journal of Natural Products* v. 78, p. 374-380, 2015.
23. DEDA, D.; BUDU, A.; CRUZ, L.; ARAKI, K.; **GARCIA, C.R.S.** Strategies for Development of Antimalarials Based on Encapsulated Porphyrin Derivatives. *Mini-Reviews in Medical Chemistry* v. 14, p. 1055-1071, 2015.
24. SILVA, G.N.S.; MARIA, N.R.G.; SCHUCK, D.C.; CRUZ, L.N.; MORAES, M.S.; NAKABASHI, M.; GOSMANN, G.; **GARCIA, C.R.S.**; GNOATTO, S.C.B. Investigation of anti-malarial activity, cytotoxicity and action mechanism of piperazine derivatives of betulinic acid. *Tropical Medicine and International Health* v. 20, p. 29, 2015.

25. SHUCK, D.C.; JORDÃO, A.K.; NAKABASHI, M; CUNHA, A.C.; FERREIRA, V.F.; **GARCIA, C.R.S.** Synthetic indole and melatonin derivatives exhibit antimalarial activity on the cell cycle of the human malaria parasite *Plasmodium falciparum*. *European Journal of Medicinal Chemistry* v. 78, p. 375-382, 2014.
26. PIVATTO, M.; BACCINI, L.; SHARMA, A.; NAKABASHI, M.; DANUELLO, A.; JUNIOR, C.; **GARCIA, C.R.S.**; BOLZANI, V.S. Antimalarial Activity of Piperidine Alkaloids from *Senna spectabilis* and Semisynthetic Derivatives. *Journal of the Brazilian Chemical Society* p. 1900, 2014.
27. PEREIRA, L.B.; CAMPOS, B.R.K.L.; **GARCIA, C.R.S.** The GCaMP3 - a GFP-based Calcium Sensor for Imaging Calcium Dynamics in the Human Malaria Parasite *Plasmodium falciparum*. *MethodsX* v. 1, p. 151, 2014.
28. LIMA, W.R.; MORAES, M.S.; ALVES, E.; AZEVEDO, M.F.; PASSOS D.O.; **GARCIA, C.R.S.** The PfNF-YB transcription factor is a downstream target of melatonin and cAMP signalling in the human malaria parasite *Plasmodium falciparum*. *Journal of Pineal Research*, v. 54, p. 145-153, 2013.
29. SHARMA, A.; SANTOS, I.O.; GAUR, P.; FERREIRA, V.F.; **GARCIA, C.R.S.**; ROCHA, D.R. Addition of Thiols to o-Quinone Methide: New 2-Hydroxy-3-phenylsulfanylmethyl[1,4] naphthoquinones and Their Activity Against the Human Malaria Parasite *Plasmodium falciparum* (3D7). *European Journal of Medicinal Chemistry*, v. 59, p. 48-53, 2013.
30. SILVA, G.N.S.; MARIA, N.R.G.; SCHUCK, D.C.; CRUZ, L.N.; MORAES, M.S.; NAKABASHI, M.; GRAEBIN, C.; GOSMANN, G.; **GARCIA, C.R.S.**; GNOATTO, S.C.B. Two series of new semisynthetic triterpene derivatives: differences in anti-malarial activity, cytotoxicity and mechanism of action. *Malaria Journal* v. 12, p. 89, 2013.
31. SCHUCK, D.C.; FERREIRA, S.B.; CRUZ, L.N.; ROCHA, D.R.; MORAES, M.; NAKABASHI, M.; ROZENTHAL, P.J.; FERREIRA, V.F.; **GARCIA, C.R.S.** Biological evaluation of hydroxynaphthoquinones as anti-malarials. *Malaria Journal* v. 12, p. 234, 2013.

32. KOYAMA, F.C.; CARVALHO, T.L.; ALVES, E.; SILVA, H.B.; AZEVEDO, M.F.; HEMERLY, A.S.; **GARCIA, C.R.S.** The Structurally-Related Auxin and Melatonin Tryptophan-Derivatives and their Roles in *Arabidopsis thaliana* and in the Human Malaria Parasite *Plasmodium falciparum*. The Journal of Eukaryotic Microbiology v. 80, p. 646-651, 2013.
33. BAGNARESI, P.; NAKABASHI, M.; THOMAS, A.; REITER, R.; **GARCIA, C.R.S.** The role of melatonin on parasite biology. Molecular and Biochemical Parasitology, v. 181, p. 1-6, 2012.
34. KOYAMA, F.; RIBEIRO, R.Y.; LEVANO-GARCIA, J.; AZEVEDO, M.F.; CHAKRABARTI, D.; **GARCIA, C.R.S.** Ubiquitin Proteasome System and the atypical kinase PfPK7 are involved in melatonin signaling in *Plasmodium falciparum*. Journal of Pineal Research, v. 53, p. 147-153, 2012.
35. CRUZ, L.N.; JULIANO, M.A.; BUDU, A.; JULIANO, L.; HOLDER T.; BLACKMAN, M.; **GARCIA, C.R.S.** Extracellular ATP triggers proteolysis and cytosolic Ca²⁺ rise in *Plasmodium berghei* and *Plasmodium yoelli* malaria parasites. Malaria Journal v. 11, p. 69, 2012.
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- Comment on the article GAZARINI, M.L.; THOMAS, A; POZZAN, T; **GARCIA, C.R.S.** Calcium signaling in a low calcium environment: how the intracellular malaria parasite solves the problem. *The Journal of Cell Biology*, v. 161, p. 103-110, 2003. Editorial of *The Journal of Cell Biology*, v. 161, p.17-19, 2003.
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Invited speaker abroad (5 years)

- PfSR25 in anti-malarial action and stress survival. 6th International Conference and the 3rd ASCB Local Meeting on Cellular Dynamics & Chemical Biology. Hefei, China. October, 2018.
- Unraveling signaling transduction pathways in *P. falciparum* for the development of new antimalarials. University of Bonn. Bonn, Germany. May, 2018.
- *Plasmodium falciparum* GPCR- like receptor SR25 mediates extracellular K⁺ sensing coupled to Ca²⁺ signaling, antimalarial action and stress survival. 6th Annual Meeting of GDR3545. Paris, France. November, 2017.
- *Plasmodium falciparum* GPCR- like receptor SR25 mediates extracellular K⁺ sensing coupled to Ca²⁺ signaling, antimalarial action and stress survival. 18th annual GPCR Retreat. Ottawa, Canada. October, 2017.
- The role of PfSR25 a *Plasmodium falciparum* GPCR-like receptor. Université Paris-Descartes. Paris, France. September, 2017.
- Decoding Signaling pathways in host-*Plasmodium* interactions. Pasteur Institute. Paris, France. September, 2017.

- Calcium signaling pathways in the human malaria parasite *P. falciparum*. St George's, University of London. London, England. April, 2017.
- Signaling transduction and the ubiquitin-proteasome system in malaria parasites. London School of Hygiene and Tropical Medicine. London, England. April, 2017.
- *Plasmodium* signaling sensors. Weill Cornell Medical College. New York, US. July, 2016.
- Decoding signaling pathways in malaria parasites. Department of Pharmacology, Physiology and Neuroscience, Rutgers University. Newark, US. June, 2015.
- Next generation sequencing for detecting differentially expressed genes in *Plasmodium falciparum* within infected RBCs. Workshop CAPES –CIC. Ohio State University. Columbus, US. May, 2015.
- *Plasmodium* senses the environment. Leibniz-Institut für Molekulare Pharmakologie. Berlin, Germany. 2014.
- *Plasmodium* signaling pathways. University of Marburg, Department of Parasitology. Marburg, Germany. November, 2014.
- *Plasmodium* perception of extracellular milieu. 13th International Congress of Parasitology - **Presidential Symposium ICOPA**. Mexico City, Mexico. August, 2014.
- The role cAMP on modulating PfNF-YB. 13th International Congress of Parasitology ICOPA. Mexico, Mexico. August, 2014.
- Calcium Signaling in *Plasmodium*. FASEB Calcium and Cell Function. Nassau, Bahamas. June, 2014.
- IP₃ and NF-YB signaling in the human malaria parasite *Plasmodium falciparum*. Liverpool School of Tropical Medicine. Liverpool, UK. May, 2014.
- Modulation of the *Plasmodium falciparum* Transcription factor PfNF-YB by second messengers. Asian Pacific Organization for Cell biology- ASCB (7th APOCB). Singapore. February, 2014.
- Melatonin signaling in malaria. Gordon Research Conference: Pineal Cell Biology, Pineal melatonin: comparative approaches to human health and disease. Galveston, US. January, 2014.

Meeting organization and session coordination:

- The 37th Annual Meeting of the Brazilian Society for Biochemistry and Molecular Biology and 10th International Union of Biochemistry and Molecular Biology. Infectious Disease: Biochemistry of parasites, vectors and hosts, Salvador - Bahia Coordination of the Symposium Plasmodium Molecular and Cellular Interactions- from mosquito vector to infected erythrocytes. Salvador, Brazil. May 21-25, 2007.
- Chairperson -International Cell Biology of Pathogens- Guarujá –São Paulo- August 7-10th 2011
- The 42th Annual Meeting of the Brazilian Society for Biochemistry and Molecular Biology (SBBq) Chair of the session on Signaling in Parasites: Iguazu Falls, Paraná, Brazil. May 2013.
- Workshop – The Interface between Physics and Biology – FAPESP- São Paulo, Brazil – April 2014
- Rutgers, Ohio and USP – The Tripartite Institute of Americas (TIA) workshop at University of São Paulo, São Paulo, Brazil – November 2015
- The 48th Annual Meeting of the Brazilian Society for Biochemistry and Molecular Biology (SBBq) Chair of the session on Signaling on host- pathogen interactions, Aguas de Lindoias, Brazil 2017
- American Society for Cell Biology Meeting: *ASCB International Affairs Committee*: cell biology research in Brazil: Opportunities for research in Brazil, resources and interactions. US - (2012.- 2019)
- The São Paulo School for Advanced Science in Cell Biology (SPCELL). In collaboration with EMBO, ASCB and FAPESP. 3rd -13th March 2018
- GDR-USP – GPCR Signaling and Drug Discovery – University of São Paulo – SP- Brazil. March 2019

Professional Society Memberships:

- American Society for Cell Biology (ASCB) 2003
- Brazilian Society for Biochemistry and Molecular Biology (SBBQ) 2003
- Brazilian Society of Chemistry (SBQ) 2011
- Brazilian Society for Cell Biology (SBBC) 2013

Others Publications

Books chapters:

- Borges-Pereira L, **Garcia C.R.S.** Employing Transgenic Parasite Strains to Study the Ca^{2+} Dynamics in the Human Malaria Parasite *Plasmodium falciparum*. *Methods Mol Biol.* 1925:157-162. 2019.
- Barlett P.J.; Budu, A.; Thomas, A.; **Garcia, C.R.S.** Calcium signaling in malaria parasites. Single cell imaging and fluorimeter assessment of calcium in subcellular compartments of malaria parasites. In: Kirsten Moll. (Org.). *Methods in Malaria Research.* 6ed.: p. 192-196. 2012.
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- Invited Guest Editor: **GARCIA, C.R.S.** Molecular and cellular approaches to understanding pathogen host interactions in neglected diseases. *Current Opinion in Microbiology*, v. 12, p. 392-393, 2009.

Patents and patent applications:

- MALNIC B.; MADEIRA, L.; GALANTE, P.A.F.; GARCIA, C.R.S. PHARMACEUTICAL COMPOSITION, DRUG SCREENING METHOD AND METHOD FOR TREATING MALARIA. 2009, China. Patente: Privilégio de Inovação. Número do registro: ZL 200980139052., título: "PHARMACEUTICAL COMPOSITION, DRUG SCREENING METHOD AND METHOD FOR TREATING MALARIA" , Instituição de registro: State Intellectual Property Office of the People's Republic of China, Depositante (s): Célia Regina da Silva Garcia;Universidade de São Paulo, Depósito: 02/10/2009.
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