

Laboratório de Bioquímica e Fisiologia de Insetos

2006

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Silva AC, Meide WD, Schoone G, Gontijo CMF, Schallig H, Brazil RP 2006. Diagnosis of Canine Leishmaniasis in the endemic area of Belo Horizonte, Minas Gerais by Parasite, Antibody and DNA assays.. *Vet Res Commun* 30: 637-643.

Indexado (fator de impacto > 0,65 a 2,0)

Oliveira AG, Galati EAB, Oliveira O, Oliveira GR, Espindola IAC, Dorval MEC, Brazil RP 2006. Abundance of Lutzomyia longipalpis (Diptera:Psychodidae:Phlebotominae) and urban transmission of visceral leishmaniasis in Campo Grande, state of Mato Grosso do Sul, Brazil. *Mem I Oswaldo Cruz (impresso)* 101: 869-874.

Gonzales MS, Hamed A, Albuquerque-Cunha JM, Nogueira NF, Souza W, Ratcliffe NA, Azambuja P, Garcia ES, Mello CB 2006. Antiserum against perimicrovillar membranes and midgut tissue reduces the development of *Trypanosoma cruzi* in the insect vector, *Rhodnius prolixus*.. *Exp Parasitol* 114: 297-304.

Andrade-Coelho CA, Souza NA, Feder MD, Silva CE, Garcia ES, Azambuja P, Gonzales MS, Rangel EF 2006. Effects of azadirachtin on the development and mortality of *Lutzomyia longipalpis* larvae (Diptera: Psychodidae: Phlebotominae).. *J Med Entomol* 43: 262-266.

Andrade Filho J, Falcão AL, Galati EAB, Brazil RP 2006. *Pintomyia (Pifanomyia) paleotownsendi*, a new sand fly from the Miocene amber of Dominican Republic. *Mem I Oswaldo Cruz (impresso)* 101: 57-58.

Brazil RP, Passos WL, Fuzari AA, Falcão AL, Andrade Filho JD 2006. The peridomiciliar sand fly fauna (Diptera:Psychodidae) in areas of cutaneous leishmaniasis in Além Paraíba, Minas Gerais, Brazil. *J Vector Ecol* 31: 418-420.

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Garcia ES, Castro DP, Ribeiro IM, Tomassini TC, Azambuja P 2006. *Trypanosoma rangeli*: effects of physalin B on the immune reactions of the infected larvae of *Rhodnius prolixus*.. *Exp Parasitol* 112: 37-43.

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Figueiredo MB, Castro DP, Nogueira NF, Garcia ES, Azambuja P 2006. Cellular immune response in *Rhodnius prolixus*: role of ecdysone in hemocyte phagocytosis.. *J Insect Physiol* 52: 711-716.

Machado EMM, Azambuja P, Garcia ES 2006. WEB 2086, a platelet-activating factor antagonist, inhibits prophenoloxidase-activating system and hemocyte microaggregation reactions induced by *Trypanosoma rangeli* infection in *Rhodnius prolixus* hemolymph.. *J Insect Physiol* 52: 685-692.

2007

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Andrade Filho JD, Brazil RP, Falcão AL, Galati EAB 2007. Description of Pintomyia (Pifanomyia) paleotrichia, a Miocene period new species from the Dominican Republic (Diptera: Psychodidae: Phlebotominae). Mem I Oswaldo Cruz (impresso) 102: 901-903.

Azevedo-Pereira, RL, Pereira MCS, Oliveira Junior FOR, Brazil RP, Cortes LMC, Madeira MF, Santos ALS, Toma L, Alves CR 2007. Heparin binding proteins from Leishmania (Viannia) braziliensis promastigotes. Vet Parasitol 145: 234-239.

Castro DP, Moraes CS, Garcia ES, Azambuja P 2007. Inhibitory effects of d-mannose on trypanosomatid lysis induced by *Serratia marcescens*. Exp Parasitol 115: 200-204.

Corrêa JR, Brazil RP, Soares MJ 2007. Leishmania (Viannia) lainsoni (Silveira et al. 1987): ultrastructural aspects of the parasite and skin lesion in experimentally infected hamster (*Mesocricetus auratus*).. Parasitol Res 100: 1227-1232.

Dorval MEC, Alves TP, Oliveira AG, Brazil RP, Galati EAB, Cunha RV 2007. Modification of Disney trap for capture of sand flies (Diptera: Psychodidae: Phlebotominae). Mem I Oswaldo Cruz (impresso) 102: 877-878.

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Nogueira NF, Gonzalez MS, Gomes JE, Souza W, Garcia E, Azambuja P, Nohara LL, Almeida IC, Zingales B, Colli W 2007. Trypanosoma cruzi: Involvement of glycoinositolphospholipids in the attachment to the luminal midgut surface of *Rhodnius prolixus*. Exp Parasitol 116: 120-128.

Castro DP, Seabra SH, Garcia ES, Souza W, Penna PA 2007. Trypanosoma cruzi: ultrastructural studies of adhesion, lysis and biofilm formation by *Serratia marcescens*.. Exp Parasitol 117: 201-207.

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 Filho JDA, Galati EAB, Falcão AL, Brazil RP 2008. Description of *Micropygomyia brandaoi*

sp. n. (Diptera: Psychodidae: Phlebotominae), a fossil phlebotomine from the Dominican Republic. Mem I Oswaldo Cruz (impresso) 103: 344-346.

doi: Pereira P, Cardoso MA, Alves CR, Brazil RP, Britto CFPC 2008. Detection of natural infection in *Lutzomyia cruzi* and *Lutzomyia forattinii* (Diptera: Psychodidae: Phlebotominae) by *Leishmania infantum chagasi* in an endemic area of visceral leishmaniasis in Brazil using a PCR multiplex assay. Acta Trop 107: 66-69.

doi: Moraes CS, Seabra SH, Castro DP, Brazil RP, Souza W, Garcia ES, Penna PA 2008. *Leishmania* (*Leishmania*) chagasi interactions with *Serratia marcescens*: Ultrastructural studies, lysis and carbohydrate effects. Exp Parasitol 118: 561-568.

doi: Oliveira AG, Marassá AM, Consales CA, Dorval ME, Fernandes CE, Oliveira GR, Brazil RP, Galati EA 2008. Observations on the feeding habits of *Lutzomyia longipalpis* (Lutz & Neiva, 1912) (Diptera: Psychodidae: Phlebotominae) in Campo Grande, an endemic area of visceral leishmaniasis in Mato Grosso do Sul, Brazil. Acta Trop 107: 238-241.

doi: Oliveira AG, Galati EA, Fernandes CE, Dorval ME, Brazil RP 2008. Seasonal variation of *Lutzomyia longipalpis* (Lutz & Neiva, 1912) (Diptera: Psychodidae: Phlebotominae) in endemic area of visceral leishmaniasis, Campo Grande, state of Mato Grosso do Sul, Brazil.. Acta Trop 105: 55-61.

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doi: Figueiredo MB, Garcia ES, Penna PA 2008. Blockades of phospholipase A(2) and platelet-activating factor receptors reduce the hemocyte phagocytosis in *Rhodnius prolixus*: in vitro experiments. J Insect Physiol 54: 344-350.

doi: Blanes L, Saito RM, Genta FA, Donegá J, Terra WR, Ferreira C, do Lago CL 2008. Direct detection of underivatized chitooligosaccharides produced through chitinase action using capillary zone electrophoresis. Anal Biochem 373: 99-103.

doi: Castro DP, Figueiredo MB, Ribeiro IM, Tomassini TCB, Penna PA, Garcia ES 2008. Immune depression in *Rhodnius prolixus* by seco-steroids, physalins. J Insect Physiol 54: 555-562.

doi: Figueiredo MB, Genta FA, Garcia ES, Penna PA 2008. Lipid mediators and vector infection: *Trypanosoma rangeli* inhibits *Rhodnius prolixus* hemocyte phagocytosis by modulation of phospholipase A2 and PAF-acetylhydrolase activities. J Insect Physiol 54: 1528-1537.

2009

Indexado (fator de impacto < 0,65 ou sem FI)

doi: Filho JD, Serra e Meira PC, Sanguinette CC, Brazil RP 2009. Description of a new species, *Pintomyia dissimilis* nov. sp., a phlebotomine fossil from Dominican Republic amber (Diptera:

Psychodidae: Phlebotominae). Parasite Vector 2: - .

doi: Brazil RP, Caballero NN, Hamilton JC 2009. Identification of the sex pheromone of *Lutzomyia longipalpis* (Lutz & Neiva, 1912) (Diptera: Psychodidae) from Asunción, Paraguay. Parasite Vector 2: - .

doi: Garcia ES, Castro DP, Figueiredo MB, Genta FA, Azambuja P 2009. Trypanosoma rangeli: a new perspective for studying the modulation of immune reactions of *Rhodnius prolixus*. Parasite Vector 2: - .

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doi: Albuquerque-Cunha JM, Gonzalez MS, Garcia ES, Mello CB, Azambuja P, Almeida JC, de Souza W, Nogueira NF 2009. Cytochemical characterization of microvillar and perimicrovillar membranes in the posterior midgut epithelium of *Rhodnius prolixus*. Arthropod Struct Dev 38: 31-44.

doi: Dorval ME, Cristaldo G, Rocha HC, Alves TP, Alves MA, Oshiro ET, Oliveira AG, Brazil RP, Galati EA, Cunha RV 2009. Phlebotomine fauna (Diptera: Psychodidae) of an American cutaneous leishmaniasis endemic area in the state of Mato Grosso do Sul, Brazil. Mem I Oswaldo Cruz (impresso) 104: 695-702.

doi: Moraes C, Seabra S, Albuquerque-Cunha J, Castro D, Genta F, Souza W, Brazil R, Garcia E, Azambuja P 2009. Prodigiosin is not a determinant factor in lysis of *Leishmania (Viannia) braziliensis* after interaction with *Serratia marcescens* D-mannose sensitive fimbriae. Exp Parasitol 122: 84-90.

doi: Andrade Filho JD, Galati EA, Brazil RP 2009. Review of American fossil phlebotominae (Diptera: Psychodidae) with a description of two new species. J Med Entomol 46: 969-979.

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doi: Bray DP, Bandi KK, Brazil RP, Oliveira AG, Hamilton JG 2009. Synthetic sex pheromone attracts the leishmaniasis vector *Lutzomyia longipalpis* (Diptera: Psychodidae) to traps in the field . J Med Entomol 46: 428-434.

Indexado (fator de impacto > 2 e < 4)

doi: Castro DP, Figueiredo MB, Genta FA, Ribeiro IM, Tomassini TC, Azambuja P, Garcia ES 2009. Physalin B inhibits *Rhodnius prolixus* hemocyte phagacytosis and microaggregation by the activation of endogenous PAF-acetyl hydrolase activities. J Insect Physiol 55: 532-537.

doi: Genta FA, Bragatto I, Terra WR, Ferreira C 2009. Purification, characterization and sequencing of the major beta-1,3-glucanase from the midgut of *Tenebrio molitor* larvae. Insect Biochem Molec 39: 861-874.

Indexado (fator de impacto > 4)

doi: Araki AS, Vigoder FM, Bauzer LG, Ferreira GEM, Souza NA, Araújo IB, Hamilton JG, Brazil RP, Peixoto AA 2009. Molecular and behavioral differentiation among Brazilian populations of *Lutzomyia longipalpis* (Diptera: Psychodidae: Phlebotominae). Plos Neglect Trop D 3: - .

2010

Indexado (fator de impacto < 0,65 ou sem FI)

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doi: de Carvalho MR, Valença HF, da Silva FJ, de Pita-Pereira D, de Araújo Pereira T, Britto C, Brazil RP, Brandão Filho SP 2010. Natural *Leishmania infantum* infection in *Migonemyia migonei* (França, 1920) (Diptera:Psychodidae:Phlebotominae) the putative vector of visceral leishmaniasis in Pernambuco State, Brazil. Acta Trop 116: 108-110.

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doi: Alves CR, Cortes LM, Brazil RP 2010. The vectorial potential of *Lutzomyia (Nyssomyia) intermedia* and *Lutzomyia (N.) whitmani* in the transmission of *Leishmania (V.) braziliensis* can-

also be related to proteins attaching. J Biomed Biotechnol 2010: - .

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2011

Indexado (fator de impacto > 2 e 4)

doi: Carvalho GM, Brazil RP, Sanguinetti CC, Andrade Filho JD 2011. Description of *Evandromyia spelunca*, a new phlebotomine species of the cortezezzii complex, from a cave in Minas Gerais State, Brazil (Diptera: Psychodidae: Phlebotominae). Parasite Vector 4: - .

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doi: Cortes LM, Silva RM, Pereira BA, Guerra C, Zapata AC, Bello FJ, Finkelstein LC, Madeira MF, Brazil RP, Corte-Real S, Alves CR 2011. Lulo cell line derived from *Lutzomyia longipalpis* (Diptera: Psychodidae): a novel model to assay *Leishmania* spp. and vector interaction. Parasite Vector 4: - .

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Indexado (fator de impacto > 4)

doi: Lucena SA, Lima LS, Cordeiro LS Jr, Sant'anna C, Constantino R, Azambuja P, de Souza W, Garcia ES, Genta FA 2011. High throughput screening of hydrolytic enzymes from termites using a natural substrate derived from sugar cane bagasse. Biotechnol Biofuels 4: - .

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doi: Diaz-Albiter H, Mitford R, Genta FA, Sant'Anna MR, Dillon RJ 2011. Reactive oxygen species scavenging by catalase is important for female *Lutzomyia longipalpis* fecundity and mortality. Plos One 6: - .

Indexado (fator de impacto 0,65 e 2)

doi: Brazil RP, Pontes MC, Passos WL, Rodrigues AA, Brazil BG 2011. The sand fly fauna (Psychodidae: Phlebotominae) in the region of Saquarema, State of Rio de Janeiro, Brazil, an endemic area of cutaneous leishmaniasis transmission. J Vector Ecol 36 Suppl 1: S95-S98.

2012

Indexado (fator de impacto < 1 ou sem FI)

doi: Brazil RP, Pontes MC, Passos WL, Fuzari AA, Brazil BG 2012. *Lutzomyia longipalpis* (Diptera: Psychodidae: Phlebotominae) in the region of Saquarema: potential area of visceral leishmaniasis transmission in the state of Rio de Janeiro, Brazil. *Rev Soc Bras Med Trop* 45: 120-121.

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Indexado (fator de impacto >=1 e < 2,71)

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doi: de Almeida AP, Soares J, Meneses AA, Cardoso SC, Braz D, Garcia ES, Gonzalez MS, Azambuja P, Barroso RC 2012. Phase contrast X-ray synchrotron imaging for assessing external and internal morphology of *Rhodnius prolixus*. *Appl Radiat Isotopes* 70: 1340-1343.

doi: Castro DP, Moraes CS, Gonzalez MS, Ribeiro IM, Tomassini TC, Azambuja P, Garcia ES 2012. Physalin B inhibits *Trypanosoma cruzi* infection in the gut of *Rhodnius prolixus* by affecting the immune system and microbiota. *J Insect Physiol* 58: 1620-1625.

doi: Moraes CS, Lucena SA, Moreira BH, Brazil RP, Gontijo NF, Genta FA 2012. Relationship between digestive enzymes and food habit of *Lutzomyia longipalpis* (Diptera: Psychodidae) larvae: Characterization of carbohydrases and digestion of microorganisms. *J Insect Physiol* 58: 1136-1145.

doi: Cortez MR, Provençano A, Silva CE, Mello CB, Zimmermann LT, Schaub GA, Garcia ES, Azambuja P, Gonzalez MS 2012. *Trypanosoma cruzi*: Effects of azadirachtin and ecdysone on the dynamic development in *Rhodnius prolixus* larvae. *Exp Parasitol* 131: 363-371.

Indexado (fator de impacto >=2,71 e < 4,35)

doi: Henriques C, Castro DP, Gomes LH, Garcia ES, de Souza W 2012. Bioluminescent imaging of *Trypanosoma cruzi* infection in *Rhodnius prolixus*. *Parasite Vector* 5: - .

doi: Araujo GS, Fonseca FL, Pontes B, Torres A, Cordero RJ, Zancopé-Oliveira RM, Casadevall A, Viana NB, Nimrichter L, Rodrigues ML, Garcia ES, de Souza W, Frases S 2012. Capsules from

pathogenic and non-pathogenic *Cryptococcus* spp. manifest significant differences in structure and ability to protect against phagocytic cells. Plos One 7: - .

doi: Lins RM, Souza NA, Brazil RP, Maingon RD, Peixoto AA 2012. Fixed differences in the paralytic gene define two lineages within the *Lutzomyia longipalpis* complex producing different types of courtship songs. Plos One 7: - .

doi: Cardoso AM, Cavalcante JJ, Vieira RP, Lima JL, Grieco MA, Clementino MM, Vasconcelos AT, Garcia ES, de Souza W, Albano RM, Martins O 2012. Gut bacterial communities in the giant land snail *Achatina fulica* and their modification by sugarcane-based diet. Plos One 7: - .

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doi: Sant'Anna MR, Darby AC, Brazil RP, Montoya-Lerma J, Dillon VM, Bates PA, Dillon RJ 2012. Investigation of the bacterial communities associated with females of *Lutzomyia* sand fly species from South America. Plos One 7: - .

doi: de Castro Côrtes LM, de Souza Pereira MC, de Oliveira FO, Corte-Real S, da Silva FS, Pereira BA, de Fatima Madeira M, de Moraes MT, Brazil RP, Alves CR 2012. *Leishmania (Viannia) braziliensis*: insights on subcellular distribution and biochemical properties of heparin-binding proteins. Parasitology 139: 200-207.

doi: Cardoso AM, Cavalcante JJ, Cantão ME, Thompson CE, Flatschart RB, Glogauer A, Scapin SM, Sade YB, Beltrão PJ, Gerber AL, Martins OB, Garcia ES, de Souza W, Vasconcelos AT 2012. Metagenomic analysis of the microbiota from the crop of an invasive snail reveals a rich reservoir of novel genes. Plos One 7: - .

doi: Rosa J, Pereira DP, Brazil RP, Filho JD, Salomón O, Szelag E 2012. Natural infection of *cortelezzii* complex (Diptera: Psychodidae: Phlebotominae) with *Leishmania braziliensis* in Chaco, Argentina. Acta Trop 123: 128-131.

doi: Carreira JC, Machado da Silva AV, Pereira DP, Brazil RP 2012. Natural infection of *Didelphis aurita* (Mammalia: Marsupialia) with *Leishmania infantum* in Brazil. Parasite Vector 5: - .

doi: Garcia ES, Castro DP, Figueiredo MB, Azambuja P 2012. Parasite-mediated interactions within the insect vector: *Trypanosoma rangeli* strategies. Parasite Vector 5: - .

doi: de Castro Côrtes LM, de Souza Pereira MC, da Silva FS, Pereira BA, de Oliveira Junior FO, de Araújo Soares RO, Brazil RP, Toma L, Vicente CM, Nader HB, de Fátima Madeira M, Bello FI, Alves CR 2012. Participation of heparin binding proteins from the surface of *Leishmania (Viannia) braziliensis* promastigotes in the adhesion of parasites to *Lutzomyia longipalpis* cells (Lulo) in vitro. Parasite Vector 5: - .

doi: Pita-Pereira D, Lins R, Oliveira MP, Lima RB, Pereira BA, Moreira OC, Brazil RP, Britto C 2012. SYBR green-based real-time PCR targeting kinetoplast DNA can be used to discriminate

between the main etiologic agents of Brazilian cutaneous and visceral leishmaniases. Parasite Vector 5: - .

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doi: Diaz-Albiter H, Sant'anna MR, Genta FA, Dillon RJ 2012. Reactive oxygen species-mediated immunity against Leishmania mexicana and Serratia marcescens in the phlebotomine sand fly Lutzomyia longipalpis. J Biol Chem 287: 23995-24003.

2013

Indexado (fator de impacto < 1 ou sem FI)

doi: Brazil RP 2013. The dispersion of Lutzomyia longipalpis in urban areas. Rev Soc Bras Med Trop 46: 263-264.

Indexado (fator de impacto >=1 e < 2,71)

doi: Almeida AP, Braz D, Nogueira LP, Colaço MV, Soares J, Cardoso SC, Garcia ES, Azambuja P, Gonzalez MS, Mohammadi S, Tromba G, Barroso SC 2013. Application of the SR-PhC-ict technique with phase retrieval for the characterization of internal and external structures of Rhodnius prolixus. J Instrum 8: - .

doi: de Oliveira EF, Silva EA, Casaril AE, Fernandes CE, Paranhos Filho AC, Gamarra RM, Ribeiro AA, Brazil RP, Oliveira AG 2013. Behavioral aspects of Lutzomyia longipalpis (Diptera: Psychodidae) in urban area endemic for visceral leishmaniasis. J Med Entomol 50: 277-284.

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Indexado (fator de impacto >=2,71 e < 4,35)

doi: Gomez A, Cardoso C, Genta FA, Terra WR, Ferreira C 2013. Active site characterization and molecular cloning of *Tenebrio molitor* midgut trehalase and comments on their insect homologs.. Insect Biochem Molec 43: 768-780.

doi: Antunes LC, Han J, Pan J, Moreira CJ, Azambuja P, Borchers CH, Carels N 2013. Metabolic Signatures of Triatomine Vectors of Trypanosoma cruzi Unveiled by Metabolomics. Plos One 8: - .

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community diversity in the gut of the South American termite *Cornitermes cumulans* (Isoptera: Termitidae).. *Microb Ecol* 65: 197-204.

doi: González-Caballero N, Valenzuela JG, Ribeiro JM, Cuervo P, Brazil RP 2013. Transcriptome exploration of the sex pheromone gland of *Lutzomyia longipalpis* (Diptera: Psychodidae: Phlebotominae). *Parasite Vector* 6: - .

Indexado (fator de impacto >=4,35 e < 7,51)

doi: Gonzalez MS, Souza MS, Garcia ES, Nogueira NFS, Mello CB, Cánepe GE, Bertotti S, Durante IM, Azambuja P, Buscaglia CA 2013. Trypanosoma cruzi TcSMUG L-surface Mucins Promote Development and Infectivity in the Triatomine Vector *Rhodnius prolixus*. *Plos Neglect Trop D* 7: - .

2014

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