

# CURRICULUM VITAE

March, 2019

## **MANOEL BARRAL-NETTO**

Principal Investigator - FIOCRUZ-BA;

Professor, Federal University of Bahia School of Medicine.

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### **Academic life**

- **MD**, Federal University of Bahia School of Medicine, 1971 - 1976;
- **Medical Residence**, 1978;
- **PhD in Pathology** (1988) Federal University of Bahia;
- **Post Doctoral fellow**, National Institutes of Health, NIH, USA (1979-1981);
- **Visiting Professor**, Seattle Biomedical Research Institute, SBRI, USA (1991).

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### **Awards and Titles**

- Knight of the Brazilian National Order of Scientific Merit - 2002;
- Full Member of the Membro Brazilian Academy of Sciences - 1998;
- Award of the Pan American Health Organization (PAHO) and Latin American Association of Immunology (ALAI) in Experimental Immunology 2002;
- Investigator of the Year at Federal University of Bahia, 1994;
- Sendas Award for Health, Honorary Mention 1993.

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### **Administrative experience**

- Director, Centro de Pesq Gonçalo Moniz (CPqGM) FIOCRUZ\_Bahia, 2013 - present;
- Director, Brazilian National Research Council (CNPq) 2003-2006; 2011-2013;
- Director, Faculdade de Medicina da Bahia (UFBA), 2000-2003;
- Dean for Research and Graduate Studies, Federal University of Bahia, 1993-1994;
- Chief, Graduate Course of Pathology Federal University of Bahia, 1996 a 2000;
- Chief, Department of Pathology and Forensic Medicine. Federal University of Bahia School of Medicine

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### **Participation in Councils and Commissions**

- Member of the Council of the Bahia State Foundation for Research (2002 a 2004; 2014 - present);
- Member of the Advisory Committee on Immunology of the Brazilian National Research Council (CNPq) in two occasions;
- Member of the Bahia State Science Council nominated by the State Governor;
- Member of the Steering Committee of Mycobaterioses, World Health Organization (WHO);

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## Academic Positions Abroad

- 2008 Visiting Professor, Universidad Autonoma de Madrid
- 1991 Visiting Scientist, Seattle Biomedical Research Institute, USA.
- 1986 Visiting Scientist, Institute Curie, Paris - France.
- 1984 Visiting Scientist, Immunology Research and Training Center, Institute of Biochemistry, University of Lausanne, Lausanne, Switzerland

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## Affiliation to Scientific Societies

- 1983-present Brazilian Society of Immunology. President 1998-1999 and Secretary General 1989-1991
- 1983-present Brazilian Society of Tropical Medicine.
- 1998-present Brazilian Society of Protozoology.

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## Meetings Organized

- 2007 Co-organizer: International Congress of Immunology, Rio de Janeiro
- 1999 Organizer: Meeting of the Brazilian Society for Immunology, Águas de Linda, São Paulo, Brazil
- 1998 Organizer: Brazilian Society of Protozoology, Caxambu, Minas Gerais Brazil
- 1998 Co-Organizer: Meeting of the Brazilian Society for Immunology, Salvador, Bahia, Brazil

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## Summary of the scientific production

Published **204 scientific papers** and  
**14 scientific book chapters**;

Registered 3 patents;

Advisor of 21 Master's Degree dissertations and  
15 PhD thesis;

His papers received **6.794 citations**, up to June 13, 2015, with a **H index of 46**.  
<http://scholar.google.com.br/citations?user=BKfaRfwAAAAJ&hl=pt-BR&oi=ao>

## Publications in scientific journals

1. CANÁRIO, AMANDA; QUEIROZ, MICHELLE; BARRETO, GUSTAVO; CAVALCANTE, THIAGO; RIESZ, VANESSA; SHARMA, ROHIT; DE NORONHA, ALMÉRIO; CORREIA, THAIZZA; **Barral-Netto, Manoel**; BARRAL, Aldina; Khouri, Ricardo; BOAVENTURA, Viviane. Presence of parasite DNA in clinically unaffected nasal mucosa during Cutaneous Leishmaniasis caused by *Leishmania (V.) braziliensis*. *CLINICAL MICROBIOLOGY AND INFECTION*. v.25, p.e-1e-3 - , 2019.
2. CAMARA, EDMUNDO J.N.; MENDONCA, VITOR R.R.; SOUZA, LIGIA C.L.; CARVALHO, JULIANA S.; LESSA, RUDA A.; GATTO, RAMON; BARRETO, LUAN O.; CHIACCHIO, GIULIANA; AMARANTE, EDUARDO; CUNHA, MONALIZA; ALVES-SILVA, LUIS S.; GUIMARÃES, BENELSON A.C.; **Barral-Netto, Manoel**. Elevated IL-17 levels and echocardiographic signs of preserved myocardial function in benznidazole-treated individuals with chronic Chagas' disease. *INTERNATIONAL JOURNAL OF INFECTIOUS DISEASES*. v.79, p.123 - 130, 2019.
3. CRUZ, LUÍS A. B.; **Barral-Netto, Manoel**; Andrade, Bruno B. Distinct inflammatory profile underlies pathological increases in creatinine levels associated with *Plasmodium vivax* malaria clinical severity. *PLoS Neglected Tropical Diseases*. v. 12, p.e0006306 - , 2018
4. TAVARES, DIVA DA SILVA; SALGADO, VANESSA RIESZ; Miranda, José Carlos; MESQUITA, PAULO R. R.; RODRIGUES, FREDERICO DE MEDEIROS; **Barral-Netto, Manoel**; DE ANDRADE, JAILSON BITTENCOURT; BARRAL, Aldina Attraction of phlebotomine sandflies to volatiles from skin odors of individuals residing in an endemic area of tegumentary leishmaniasis. *PLoS One*. v.13, p.e0203989 - , 2018.
5. GARDE, ESTHER; Ramírez, Laura; CORVO, LAURA; SOLANA, JOSÉ C.; MARTÍN, M. ELENA; GONZÁLEZ, VÍCTOR M.; GÓMEZ-NIETO, CARLOS; BARRAL, Aldina; **Barral-Netto, Manoel**; REQUENA, JOSÉ M.; Iborra, Salvador; Soto, Manuel. Analysis of the Antigenic and Prophylactic Properties of the *Leishmania* Translation Initiation Factors eIF2 and eIF2B in Natural and Experimental Leishmaniasis. *Frontiers in Cellular and Infection Microbiology*. v.8, p.112 - , 2018.
6. FELTRIN, REBECA BUZZO; GUILAM, MARIA CRISTINA RODRIGUES; **Barral-Netto, Manoel**; LIMA, NÍSIA TRINDADE; MORAES, MILTON OZÓRIO For socially engaged science: The dynamics of knowledge production in the Fiocruz graduate program in the framework of the 'Brazil Without Extreme Poverty Plan'. *PLoS One*. v.13, p.e0204232 - , 2018.
7. TEIXEIRA, Clarissa; Santos, C.S.; PRATES, D.; dosSantos R; ARAUJO-SANTOS, T.; SOUZA-NETO, S.; BORGES, V.; **Barral-Netto, M.**; BRODSKYN, Claudia *Lutzomyia longipalpis* Saliva Drives Interleukin-17-Induced Neutrophil Recruitment Favoring *Leishmania infantum* Infection. *Frontiers in Microbiology*. v.9, p.389 - 310, 2018
8. SHARMA, ROHIT; COSTA SANTOS, LARISSA; DA SILVA, ROBSON A.; GONÇALVES, CAROLINE V.; DE MELO CALADO, STÉFANO; SANTOS, DENISAR P.; DE ANDRADE DE MELO, JOSANA P.; DE CÁSSIA PONTELLO RAMPAZZO, RITA; REQUIÃO, LUCIANA; KRIEGER, MARCO A.; **Barral-Netto, Manoel**; de Oliveira, Camila I. Surveillance of donated blood during the 2016 arbovirus outbreak in Brazil. *JOURNAL OF MEDICAL VIROLOGY*. v.2018, p.1 - 5, 2018.
9. ARMSTRONG, ANDERSON DA COSTA; LADEIA, ANA MARICE TEIXEIRA; MARQUES, JURACY; ARMSTRONG, DINANI MATOSO FIALHO DE OLIVEIRA; SILVA, ANTONIO MARCONI LEANDRO DA; MORAIS JUNIOR, JEOVÁ CORDEIRO DE; BARRAL, Aldina; CORREIA, LUIS CLAUDIO LEMOS; **Barral-Netto, Manoel**; LIMA, JOÃO A. C. Urbanization is Associated with Increased Trends in Cardiovascular Mortality Among Indigenous Populations: the PAI Study. *Arquivos Brasileiros de Cardiologia*. v.110, p.240 - 245, 2018.

10. CARVALHO, MAGDA O. S.; ARAUJO-SANTOS, THÉO; REIS, JOÃO H. O.; ROCHA, LARISSA C.; Cerqueira, Bruno A. V.; Luz, Nívea F.; LYRA, ISA M.; LOPES, VALMA M.; BARBOSA, CYNARA G.; FIUZA, LUCIANA M.; SANTIAGO, RAYRA P.; FIGUEIREDO, CAMYLLA V. B.; DA GUARDA, CAROLINE C.; **Barral Neto, Manoel**; Borges, Valéria M.; GONÇALVES, MARILDA S. Inflammatory mediators in sickle cell anaemia highlight the difference between steady state and crisis in paediatric patients. *BRITISH JOURNAL OF HAEMATOLOGY*. v.178, p.500 - , 2017;
11. DE OLIVEIRA, SUSANA; DA ORDEM TRAHAMANE, EVARISTO JOÃO; MONTEIRO, JULIANA; SANTOS, GUSTAVO PIRES; CRUGEIRA, PEDRO; SAMPAIO, FERNANDO; OLIVEIRA, CAMILA; **Neto, Manoel Barral**; PINHEIRO, ANTÔNIO Leishmanicidal effect of antiparasitic photodynamic therapy-ApPDT on infected macrophages. *LASERS IN MEDICAL SCIENCE*. , v.32, p.1 - 6, 2017.
12. SILVA, KLEVERTON RIBEIRO DA; Mendonça, Vitor Rosa Ramos de; SILVA, KELLEN MATUZZY; NASCIMENTO, LEOPOLDO FABRÍCIO MARÇAL DO; MENDES-SOUSA, ANTONIO FERREIRA; PINHO, FLAVIANE ALVES DE; **Barral-Netto, Manoel**; BARRAL, ALDINA MARIA PRADO; CRUZ, MARIA DO SOCORRO PIRES E Scoring clinical signs can help diagnose canine visceral leishmaniasis in a highly endemic area in Brazil. *Memórias do Instituto Oswaldo Cruz*. v.112, p.53 - 63, 2017.
13. SOLANA, J. C.; Ramirez, L; Corvo, L; de Oliveira, C. I.; **Barral-Netto, M.**; Requena, J. M.; Iborra, Salvador; SOTO, M. Vaccination with a *Leishmania infantum* HSP70-II null mutant confers long-term protective immunity against *Leishmania major* infection in two mice models. *PLoS Neglected Tropical Diseases*. v.11, p.0005644 - , 2017.
14. TAVARES, N.; AFONSO, L.; SUAREZ, M.; AMPUERO, M.; PRATES, D. B.; ARAUJO-SANTOS, T.; Barral-Netto, M.; DOSREIS, G. A.; Borges, V. M.; BRODSKYN, C. I. Degranulating Neutrophils Promote Leukotriene B4 Production by Infected Macrophages To Kill *Leishmania amazonensis* Parasites. *The Journal of Immunology (1950)*. v.196, p.000 - 0000, 2016.;
15. BARRETO, MAURICIO L; **Barral-Netto, Manoel**; STABELI, RODRIGO; ALMEIDA-FILHO, NAOMAR; VASCONCELOS, PEDRO F C; TEIXEIRA, MAURO; BUSS, PAULO; GADELHA, PAULO E. Zika virus and microcephaly in Brazil: a scientific agenda. *Lancet (British edition)*, v.387, p.S0140 - , 2016;
16. SALGADO, VANESSA R; QUEIROZ, ARTUR TL DE; SANABANI, SABRI S; OLIVEIRA, CAMILA I DE; CARVALHO, EDGAR M; COSTA, JACKSON ML; **Barral-Netto, Manoel**; Barral A. The microbiological signature of human cutaneous leishmaniasis lesions exhibits restricted bacterial diversity compared to healthy skin. *Memórias do Instituto Oswaldo Cruz (Online)*. v.111, p.241 - 251, 2016;
17. Carneiro, Marcia W.; Fukutani, Kiyoshi F.; Andrade, Bruno B.; CURVELO, REBECCA P.; CRISTAL, JUQUELINE R.; CARVALHO, AUGUSTO M.; BARRAL, Aldina; Van Weyenbergh, Johan; **Barral-Netto, Manoel**; de Oliveira, Camila I.. Gene Expression Profile of High IFN- $\gamma$  Producers Stimulated with *Leishmania braziliensis* Identifies Genes Associated with Cutaneous Leishmaniasis. *PLoS Neglected Tropical Diseases (Online)*. v.10, p.e0005116 - , 2016
18. CONCEIÇÃO, ELISABETE L.; NASCIMENTO-SAMPAIO, FRANCISCO S.; SCHWINGEL, PAULO A.; OLIVEIRA, EVELIN S.; ROCHA, MICHAEL S.; VIEIRA, IGOR; MENDES, CARLOS M. C.; SOUZA-MACHADO, ADELMIR; OLIVEIRA, MARTHA M.; **Barral-Netto, Manoel**; MARINHO, JAMOCYR M.; Barbosa, Theolis Revisiting the Heterogeneous IFN- $\gamma$  Response of Bacille of Calmette-Guérin (BCG)-Revaccinated Healthy Volunteers in a Randomized Controlled Trial: Effect of the Body Mass Index and of the IFNG+874 A/T Polymorphism. *Plos One*, v.11, p.e0160149 - , 2016.
19. SOTO, M., CORVO, L., Ramirez, L., Iniesta, V, BONAY, P., GOMEZ-NIETO, C., Gonzalez, VM, Martin, ME, ALONSO, C., Coelho, EAF, BARRAL, A., **BARRALNETTO, M**, IBORRA, S.Coadministration of the three antigenic *Leishmania infantum* Poly (A) Binding Proteins as a DNA vaccine induces protection against *Leishmania major* infection in BALB/c mice. *PLoS Neglected Tropical Diseases* , v.9, p.e0003751 - , 2015.

20. LANCHOTE, VERA LUCIA, ALMEIDA, ROQUE, BARRAL, Aldina, **Barral-Netto, Manoel**, MARQUES, MARIA PAULA, MORAES, NATÁLIA V., DA SILVA, ANGELA M., SOUZA, TANIA M. V., SUAREZ-KURTZ, GUILHERME Impact of visceral leishmaniasis and curative chemotherapy on cytochrome P450 activity in Brazilian patients. *British Journal of Clinical Pharmacology* . , v.79, p.n/a - n/a, 2015.
21. Duarte, Angelo, QUEIROZ, ARTUR T. L., TOSTA, RAFAEL, CARVALHO, AUGUSTO M., BARBOSA, CARLOS HENRIQUE, BELLIO, MARIA, de Oliveira, Camila I., **Barral-Netto, Manoel** Prediction of CD8+ Epitopes in Leishmania braziliensis Proteins Using EPIBOT: In Silico Search and In Vivo Validation. *Plos One* . , v.10, p.e0124786 - , 2015.
22. PEREIRA, LAIS, ABBEHUSEN, MELISSA, TEIXEIRA, Clarissa, CUNHA, JUREMA, Nascimento, Ivan P., Fukutani, Kyioshi, DOS-SANTOS, WASHINGTON, BARRAL, Aldina, de Oliveira, Camila Indiani, **Barral-Netto, Manoel**, SOTO, MANOEL, Brodskyn, Cláudia Ida Vaccination with Leishmania infantum Acidic Ribosomal P0 but Not with Nucleosomal Histones Proteins Controls Leishmania infantum Infection in Hamsters. *PLoS Neglected Tropical Diseases*. v.10, p.e0003490 - , 2015.
23. Franca-Costa, J., Van Weyenbergh, J., BOAVENTURA, V. S., Luz, N. F., MALTA-SANTOS, H., OLIVEIRA, M. C. S., SANTOS DE CAMPOS, D. C., SALDANHA, A. C., DOS-SANTOS, W. L. C., Bozza, P. T., **Barral-Netto, M.**, BARRAL, A., Costa, J. M., Borges, V. M. Arginase I, Polyamine and Prostaglandin E2 Pathways Suppress the Inflammatory Response and Contribute to Diffuse Cutaneous Leishmaniasis. *The Journal of Infectious Diseases*. , v.211, p.426 - 435, 2014.
24. Mendonça, Vitor R. R., SOUZA, L. C. L., GARCIA, G. C., Magalhães, B. M. L., Lacerda, M. V. G., ANDRADE, Bruno B, GONCALVES, M., **Barral-Netto, M.** DDX39B (BAT1), TNF and IL6 gene polymorphisms and association with clinical outcomes of patients with Plasmodium vivax malaria. *Malaria Journal* . , v.13, p.278 - , 2014.
25. DA SILVA SANTOS, CLAIRE, ATTARHA, SANAZ, SAINI, RAVI KANTH, BOAVENTURA, Viviane, COSTA, Jackson, Khouri, Ricardo, **Barral-Netto, Manoel**, Brodskyn, Cláudia Ida, SOUCHELNITSKYI, SERHIY Proteome Profiling of Human Cutaneous Leishmaniasis Lesion. *Journal of Investigative Dermatology*. v.135, p. 400 - 410, 2014.
26. Fukutani, Kiyoshi F, FIGUEIREDO, VIRGÍNIA, CELES, FABIANA S, CRISTAL, JUQUELINE R, BARRAL, Aldina, **Barral-Netto, Manoel**, DE OLIVEIRA, CAMILA I Serological survey of Leishmania infection in blood donors in Salvador, Northeastern Brazil. *BMC Infectious Diseases (Online)*. , v.14, p.422 - , 2014.
27. Khouri, R., SILVA SANTOS, G., SOARES, G., Costa, J. M., BARRAL, A., **Barral-Netto, M.**, Van Weyenbergh, J. SOD1 Plasma Level as a Biomarker for Therapeutic Failure in Cutaneous Leishmaniasis. *The Journal of Infectious Diseases*. , v.209, p.1 - , 2014.
28. Mendonça, Vitor Rosa Ramos de, ALCÂNTARA, THIAGO, ANDRADE, NILVANO, Andrade, Bruno Bezerril, **Barral-Netto, Manoel**, BOAVENTURA, Viviane Analysis of theoretical knowledge and the practice of science among brazilian otorhinolaryngologists. *Brazilian Journal of Otorhinolaryngology (Impresso)*. , v.79, p.487 - 493, 2013.
29. SANTOS, CLAIRE DA SILVA, BOAVENTURA, Viviane, RIBEIRO CARDOSO, CRISTINA, TAVARES, NATALIA, LORDELO, MORGANA J, NORONHA, ALMÉRIO, COSTA, Jackson, BORGES, VALÉRIA M, DE OLIVEIRA, CAMILA I, Van Weyenbergh, Johan, BARRAL, Aldina, **Barral-Netto, Manoel**, Brodskyn, Cláudia Ida CD8+ Granzyme B+-Mediated Tissue Injury Versus CD4+IFN $\gamma$ +-Mediated Parasite Killing in Human Cutaneous Leishmaniasis. *Journal of Investigative Dermatology*. , v.133, p.1 - 1540, 2013.
30. 12. BARBOSA, Theolis, **Barral-Netto, M.** Challenges in the research and development of new human vaccines. *Brazilian journal of medical and biological research*. , v.46, p.103 - 108, 2013.

31. 13. CARREGARO, VANESSA, COSTA, DIEGO LUIS, BRODSKYN, Claudia, BARRAL, ALDINA MARIA, **Barral-Netto, Manuel**, CUNHA, FERNANDO Q, SILVA, JOÃO SANTANA Dual effect of *Lutzomyia longipalpis* saliva on *Leishmania braziliensis* infection is mediated by distinct saliva-induced cellular recruitment into BALB/c mice ear. *BMC Microbiology (Online)*. , v.13, p.102 - , 2013.
32. 14. COSTA, DIRCEU JOAQUIM, CARVALHO, RAYSSA M. DE ARAUJO, ABBEHUSEN, MELISSA, TEIXEIRA, Clarissa, Pitombo, Maiana, TRIGO, JOELMA, NASCIMENTO, FLÁVIA, AMORIM, LUCILENE, ABREU-SILVA, ANA LUCIA, DO SOCORRO PIRES CRUZ, MARIA, Miranda, José Carlos, FUKUTANI, KYOSHI, de Oliveira, Camila I., BARRAL, Aldina, **Barral-Netto, Manoel**, Brodskyn, Cláudia Experimental Infection of Dogs with *Leishmania* and Saliva as a Model to Study Canine Visceral Leishmaniasis. *Plos One*. , v.8, p.e60535 - , 2013.
33. 15. de Moura, Tatiana R., OLIVEIRA, Fabiano, Carneiro, Marcia W., Miranda, José Carlos, Clarêncio, Jorge, **Barral-Netto, Manoel**, Brodskyn, Cláudia, BARRAL, Aldina, RIBEIRO, JOSÉ M. C., Valenzuela, Jesus G., de Oliveira, Camila I. Functional Transcriptomics of Wild-Caught *Lutzomyia intermedia* Salivary Glands: Identification of a Protective Salivary Protein against *Leishmania braziliensis* Infection. *PLoS Neglected Tropical Diseases (Online)*. , v.7, p.e2242 - , 2013.
34. 16. BARBOSA, T., OLIVEIRA, EVELIN S., MARINHO, JAMOCYR M., Barbosa, Theolis, RODRIGUES, JAQUELINE S, CONCEIÇÃO, ELISABETE L, PEDROSA, MAURICIO R, PETERSEN, ANTONIO LUIS DE O A, MENEZES, JULIANA P BEZERRA, **Barral-Netto, M.**, ARRUDA, SERGIO Interferon-gamma production by mononuclear cells in Bacille Calmette-Guérin-revaccinated healthy volunteers predicted long-term antimycobacterial responses in a randomized controlled trial. *Vaccine (Guildford)*. , v.31, p.3778 - 3782, 2013.
35. 17. MENDONCA, V. R. R., QUEIROZ, A. T. L., Lopes, FM, ANDRADE, B.B., **Barral-Netto, M.** Networking the host immune response in *Plasmodium vivax* malaria. *Malaria Journal* (. , v.12, p.69 - , 2013.
36. 18. SANTOS, DIEGO M., Carneiro, Marcia W., de Moura, Tatiana R., Soto, Manuel, Luz, Nívea F., PRATES, DEBORACI B., IRACHE, JUAN MANUEL, BRODSKYN, Claudia, BARRAL, Aldina, **Barral-Netto, Manoel**, ESPUELAS, SOCORRO, Borges, Valéria M., de Oliveira, Camila I. PLGA nanoparticles loaded with KMP-11 stimulate innate immunity and induce the killing of *Leishmania*. *Nanomedicine*. , v. 2, p.S1549-9634(13)0 - , 2013.
37. 19. Soares, B R, SOUZA, A P A, PRATES, D., de Oliveira, Camila I., **Barral-Netto, Manoel**, Miranda, Jose C., BARRAL, A Seroconversion of sentinel chickens as a biomarker for monitoring exposure to visceral Leishmaniasis. *SCI REP-UK*. , v.3, p. 2352 - , 2013.
38. 20. COSTA, D, Rocha, R. L., Carvalho, RMA, Harhay, M.O., Costa, Carlos Henrique Nery, **Barral-Netto, M.**, BARRAL, A Serum cytokines associated with severity and complications of kala-azar. *Pathogens and Global Health*. , v.107, p.78 - 87, 2013.
39. 21. Souza, Ana Paula, Soto, Manuel, COSTA, JACKSON M. L., Boaventura, Viviane S., de Oliveira, Camila I., CRISTAL, JUQUELINE R., **Barral-Netto, Manoel**, BARRAL, Aldina Towards a More Precise Serological Diagnosis of Human Tegumentary Leishmaniasis Using *Leishmania* Recombinant Proteins. *Plos One*. , v.8, p.e66110 - , 2013.
40. 22. MENDONCA, V. R. R., Luz, N. F., SANTOS, N. J. G., Borges, V. M., Goncalves, M. S., Andrade, B. B., **Barral-Netto, M.** Association between the Haptoglobin and Heme Oxygenase 1 Genetic Profiles and Soluble CD163 in Susceptibility to and Severity of Human Malaria. *Infection and Immunity (Print)*. , v.80, p.1445 - 1454, 2012.
41. 23. **Barral-Netto, M.**, COSTA, A.S.A., COSTA, G, AQUINO, Dorelene Maria Cardoso, MENDONCA, V. R. R., BARRAL, Aldina, CALDAS, A. J. M. Cytokines and visceral leishmaniasis: a comparison of plasma cytokine profiles between the clinical forms of visceral leishmaniasis. *Memórias do Instituto Oswaldo Cruz (Impresso)*. , v.107, p.735 - 739, 2012.

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46. 28. BARBOSA, ARTUR F., SANGIORGI, BRUNO B., GALDINO, SUELY L., **Barral-Netto, Manoel**, PITTA, IVAN R., PINHEIRO, ANTÔNIO L. Photodynamic antimicrobial chemotherapy (PACT) using phenothiazine derivatives as photosensitizers against *Leishmania braziliensis*. *Lasers in Surgery and Medicine (Print)*. , v.44, p.n/a - n/a, 2012.
47. 29. Mendonça, Vitor R. R., Goncalves, Marilda S., **Barral-Netto, M.** The Host Genetic Diversity in Malaria Infection. *Journal of Tropical Medicine*. , v.2012, p.1 - 17, 2012.
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