

## ***Short Curriculum vitae***

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### **1. PRESENT WORK**

Group of Opportunistic Protozoa/HIV and Other Protozoa

Unit of Medical Parasitology

Instituto de Higiene e Medicina Tropical (IHMT)

TB, HIV and opportunistic diseases and pathogens (THOP)

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### **2. ACADEMIC DEGREES**

2004 Habilitation (Agregação), Instituto de Higiene e Medicina Tropical (IHMT),  
Universidade Nova de Lisboa (UNL).

2000 Doctorate, Instituto de Higiene e Medicina Tropical (IHMT), UNL.

1993 MSc, Instituto de Higiene e Medicina Tropical (IHMT), UNL.

1980 Degree in Medicine, Faculdade de Ciências Médicas, UNL.

### **3. POSITIONS**

2007-present Associate Professor with Habilitation at IHMT, UNL.

2005-2010 Director, Teaching and Research Unit of Opportunistic Protozoa/HIV and Other  
Protozooses, at IHMT, UNL.

2000-2007 Assistant Professor at IHMT, UNL.

1993-1999 Graduate Teaching Assistant at IHMT, UNL.

1989-1993 Teaching Assistant trainee at IHMT, UNL.

1986-1987 Voluntary Doctor, Central Hospital of Maputo, Mozambique.

1987-1988 Medical Doctor at Dispensary of United Nations, Maputo, Mozambique.

1987-1988 Medical Doctor at Transportes Aéreos Portugueses (TAP) Delegation in Maputo,  
Mozambique.

1981-1985 General Internship, Centro de Saúde de Alter do Chão/Santa Maria Hospital.

1974-1980 Secondary School Teacher at several schools in the Great Lisbon Area.

### **4. MEMBERSHIP AND SERVICES**

- **Member** of the Working Group on *Pneumocystis* for 5th European Conference on Infections in Leukemia (ECIL) (2013), which established evidence-based recommendations for using tests to diagnose *Pneumocystis* pneumonia in adults' patients with hematological malignancies.

- **Member of 7 European Networks** for the study of opportunistic protozooses - Rede Iberoamericana sobre Pneumocystosis 212RT0450, CYTED Network (2012-2015 - Portuguese PI); European Society of Clinical Microbiology and Infectious Diseases (ESCMID) study group for Clinical Parasitology, Intestinal Parasites subgroup (since 2011 – Member); European Society of Clinical Microbiology and Infectious Diseases (ESCMID) study group for Clinical Parasitology, Toxoplasma subgroup (since 2011 - Member); Orphanet of Rare Diseases Task Force (since 2008 - Member); EU Network of Excellence MedVetNet (2004-2006 - Associated partner); EUROCARINII Group (2002-2004 – Portuguese PI); Colaboration with the Reference Centre of the National Institute of Health Ricardo Jorge (INSA,RJ), Lisboa, Portugal, with the Centre de Contrôle de Qualité National en Parasitologie, Gonesse, France, and with the Working Group on Standardization and Quality Assurance-European Network on Congenital Toxoplasmosis in the program “*Toxoplasma gondii* and toxoplasmosis – quality control of the diagnostic methods” (1994-2000 - Partner).
- **Evaluation Panels Member for Centers, Postdoc and PhD Fellowships and Projects, and Editorial Board.**
  - Research centers and Postdoctoral and PhD Programme Recruitment** - Group of Experts for the Agence d'Évaluation de la Recherche et de l'Enseignement Supérieur (AERES), France (2013, 2015, 2016), Fundação para a Ciência e a Tecnologia (FCT), Portugal (2017).
  - Projects and Stakeholder Meetings**- Scientific evaluation panel for projects of the Austrian Science Fund (2018), Ministry of Science, Technology & Space of Israel (2017), Infect-ERA JTC-EU (2016), European & Developing Countries Clinical Trials Partnership (EDCTP)-EU Diarrhoeal Diseases (2016), EDCTP-EU Lower Respiratory Infections (2016), Institut Mérieux, France, 2011, and National Health Laboratory Service (NHLS) Research Trust, South Africa, 2008 and 2009.
  - Editorial Boards** - The Journal of Eukaryotic Microbiology, Reviews in Medical Microbiology, International Scholarly Research Notices, International Journal of Molecular Epidemiology and Genetics.
  - Scientific Revision of manuscripts** - Acta Médica Portuguesa, Acta Tropica, Acta Parasitologica, African Journal of Microbiology Research, Antimicrobial Agents and Chemotherapy, Asian Pacific Journal of Tropical Disease, Austin Journal of Dermatology, Avian Pathology, African Journal of Microbiology Research, BMC Microbiology, BMC Veterinary Research, Clinical and Vaccine Immunology, Clinical Infectious Diseases, Clinical Microbiology and Infection, Clinical Microbiology Reviews, Current Medicinal Chemistry, Emerging Infectious Diseases, Environmental Science and Pollution Research, Epidemiology and Infection, Experimental Parasitology, Expert Review of Anti-infective Therapy, FEMS Immunology & Medical Microbiology, Frontiers in Microbiology, Infection Genetics and Evolution, International Journal of Hygiene and Environmental Health, Journal of Applied Microbiology, Journal of Clinical Microbiology, Journal of Eukaryotic Microbiology, Journal of Infectious Diseases, Journal of Medical Microbiology, Journal of Parasitology, Journal of Parasitology Research, Medical Mycology, MIOsvaldo Cruz, Mycopathologia, Mycoses, North American Journal of Medical Sciences, Ocean & Coastal Management, Parasites and Vectors, PLoS Neglected Tropical Diseases, PLoS ONE, Research in Veterinary Science, The Philippine Agricultural Scientist, Transactions of The Royal Society of Tropical Medicine and Hygiene, Vector-Borne and Zoonotic Diseases, Veterinaria Italiana, Veterinary Parasitology.
- **Laboratory Community Services** - Coordinator of the Laboratories of Opportunistic Protozoa/HIV and Other Protozoa since 2005 - specialised diagnostic techniques in the areas of intestinal protozooses, American and African trypanosomiasis, toxoplasmosis and pneumocystosis.

## 5. PRESENT FIELDS OF INTERESTS

Medical Parasitology, Medical Protozoology, Infectious Diseases, Tropical Medicine, Molecular Biology.

**-Main Research Areas - Molecular epidemiology of infections:** *Pneumocystis jirovecii*, *Toxoplasma gondii*, *Giardia duodenalis*, *Cryptosporidium* spp. and Microsporidia, in humans and animals; **Drug resistance and susceptibility genes:** *P. jirovecii* and *T. gondii* infections. **Host-parasite relationship:** *P. jirovecii* and *Cryptosporidium* spp. **Epidemiology of Chagas disease** in Portugal, a non-endemic country. **Development of new tools** for diagnosis and molecular characterization of opportunistic, emergent and re-emergent parasitoses. Survey and *in vitro* **studies of medicinal plants** with anti-parasitic activity.

**6. TEACHING ACTIVITIES - Coordination and Organization** of 1 Scientific Area, 4 Curricular Units/Modules of 3 Masters and 2 Training Courses. **Participation** - Lectures in 2 PhD courses, 3 Master Courses, 1 e-Learning Course, 3 Post-graduation Courses at IHMT and in 1 Master and 1 Graduation Courses at Faculty of Science and Technology, UNL. Lectures at the Integrated Master of Medicine, 3 other Master Courses at Faculty of Medicine and in 1 Master Course at Faculty of Sciences, UL. Sporadic participation in other post-graduate courses, in other University institutions.

**7. PUBLICATIONS** – Scopus H-index: **21** / Google H-index: **26**. Scopus analysis: Total Articles in Publication List: **77**. Scopus Author ID: 7003376822. URL: [http://www.scopus.com/authid/detail.url?author Id=7003376822](http://www.scopus.com/authid/detail.url?author%20Id=7003376822). ORCID ID: <http://orcid.org/0000-0001-5793-7716>. Corresponding author in **59** articles and first author in **21** articles, **7** review articles; **10** book chapters; **164** Published Sequences in International Database of Reference, 1 Patent application no. **PT109078**.

**-Peer-reviewed Journal Articles** (\* corresponding author):

- SOKULSKA M., KICIA M., WESOŁOWSKA M., PIESIAK P., KOWAL A., LOBO M. L., KOPACZ Ż., HENDRICH A. B. & **MATOS O.\*** (2017). Prevalence of colonization and multilocus genotyping profiles of *Pneumocystis jirovecii* among patients with various pulmonary disorders in Poland. *Medical Mycology*, 0: 1-7. doi: 10.1093/mmy/myx121.
- 1. ALANIO A., GITS-MUSELLI M., GUIGUE N., DESNOS-OLLIVIER M., CALDERON E., CAVE D. D., DUPONT D., HAMPRECHT A., HAUSER P. M., HELWEG-LARSEN J., KICIA M., LAGROU K., LENGEROVA M., **MATOS O.**, MELCHERS W., MORIO F., NEVEZ G., TOTET A., WHITE L. P., BRETAGNE S. (2017). Diversity of *Pneumocystis jirovecii* across Europe: a multicentre observational study. *EBioMedicine*, 22: 155-163. <http://dx.doi.org/10.1016/j.ebiom.2017.06.027>
- VARGAS S., PONCE C. A., BUSTAMANTE R., CALDERON E., NEVEZ G., DE ARMAS Y., **MATOS O.**, MILLER R. F., GALLO M. (2017). Importance of tissue sampling, laboratory methods, and patient characteristics for detection of *Pneumocystis* in autopsied lungs of non-immunosuppressed individuals. *European Journal of Clinical Microbiology & Infectious Diseases*. Jun 5. doi: 10.1007/s10096-017-3006-8. [Epub ahead of print]

- CORDONNIER C., ALANIO A., CESARO S., MASCHMEYER G., EINSELE H., J. DONNELLY P. J., HAUSER P. M., LAGROU K., MELCHERS W. J. G., HELWEG-LARSEN J., **MATOS O.**, BRETAGNE S. & MAERTENS J. on behalf of the Fifth European Conference on Infections in Leukemia (ECIL-5<sup>†</sup>), a joint venture of The European Group for Blood and Marrow Transplantation (EBMT), The European Organization for Research and Treatment of Cancer (EORTC), the Immunocompromised Host Society (ICHS) and The European LeukemiaNet (ELN) (2017). Pneumocystis jirovecii pneumonia: still a concern in patients with haematological malignancies and stem cell transplant recipients – authors' response. *Journal of Antimicrobial Chemotherapy*. 72(4):1266-1268.
- PONCE C. A., CHABÉ M., GEORGE C., CÁRDENAS A., DURAN L., GUERRERO J., BUSTAMANTE R., **MATOS O.**, HUANG L., MILLER R. F. & VARGAS S. L. (2017). High prevalence of Pneumocystis jirovecii dihydropteroate synthase gene mutations in patients with first episode of Pneumocystis pneumonia in Santiago, Chile, and their clinical response to trimethoprim-sulfamethoxazole therapy. *Antimicrobial Agents and Chemotherapy*, 61(2). pii: e01290-16.
- LOBO M. L., PATROCINIO G., SEVIVAS T., DE SOUSA B. & **MATOS O.\*** (2017). Portugal and Angola: similarities and differences in Toxoplasma gondii seroprevalence and risk factors among pregnant women. *Epidemiology and Infection*, 145(1): 30-40.
- TOMÁS A.L., CARDOSO F., ESTEVES F. & **MATOS O.\*** (2016). Serological diagnosis of pneumocystosis: production of a synthetic recombinant antigen for immunodetection of Pneumocystis jirovecii. *Scientific Reports*, 6, 36287.
- ESTEVES F., DE SOUSA B., CALDERÓN E. J., HUANG L., BADURA R., MALTEZ F., BASSAT Q., DE ARMAS Y., ANTUNES F. & **MATOS O.\*** (2016). Multicenter study highlighting clinical relevance of new high-throughput methodologies in molecular epidemiology of Pneumocystis jirovecii pneumonia. *Clinical Microbiology and Infection*, 22(6): 5566.e9-566.e19.
- MAERTENS J., CESARO S., MASCHMEYER G., EINSELE H., J. DONNELLY P. J., ALANIO A., HAUSER P. M., LAGROU K., MELCHERS W. J. G., HELWEG-LARSEN J., **MATOS O.**, BRETAGNE S. & CORDONNIER C. on behalf of the 5th European Conference on Infections in Leukaemia (ECIL-5<sup>†</sup>), a joint venture of the European Group for Blood and Marrow Transplantation (EBMT), the European Organisation for Research and Treatment of Cancer (EORTC), the Immunocompromised Host Society (ICHS) and the European LeukemiaNet (ELN) (2016). ECIL guidelines for preventing Pneumocystis jirovecii pneumonia in patients with haematological malignancies and stem cell transplant recipients. *Journal of Antimicrobial Chemotherapy*, 71(9): 2397-2404. (Review article)
- ALANIO A., HAUSER P. M., LAGROU K., MELCHERS W. J. G., HELWEG-LARSEN J., **MATOS O.**, CESARO S., MASCHMEYER G., EINSELE H., DONNELLY J. P., CORDONNIER C., JOHAN MAERTENS J. & BRETAGNE S. on behalf of the 5th European Conference on Infections in Leukemia (ECIL-5<sup>†</sup>), a joint venture of The European Group for Blood and Marrow Transplantation (EBMT), The European Organization for Research and Treatment of Cancer (EORTC), the Immunocompromised Host Society (ICHS) and The

- European LeukemiaNet (ELN) (2016). ECIL guidelines for the diagnosis of *Pneumocystis jirovecii* pneumonia in patients with haematological malignancies and stem cell transplant recipients. *Journal of Antimicrobial Chemotherapy*, 71(9): 2386-2396. (Review article)
- CORDONNIER C., CESARO S., MASCHMEYER G., EINSELE H., J. DONNELLY P. J., ALANIO A., HAUSER P. M., LAGROU K., MELCHERS W. J. G., HELWEG-LARSEN J., **MATOS O.**, BRETAGNE S. & MAERTENS J. on behalf of the Fifth European Conference on Infections in Leukemia (ECIL-5<sup>+</sup>), a joint venture of The European Group for Blood and Marrow Transplantation (EBMT), The European Organization for Research and Treatment of Cancer (EORTC), the Immunocompromised Host Society (ICHS) and The European LeukemiaNet (ELN) (2016). *Pneumocystis jirovecii* pneumonia: still a concern in patients with haematological malignancies and stem cell transplant recipients. *Journal of Antimicrobial Chemotherapy*, 71(9): 2379-2385. (Review article)
  - ALANIO A., GITS-MUSELLI M., CALDERON E., DI CAVE D., DUPONT D., HAMPRECHT A., HAUSER P., HELWEG-LARSEN J., KICIA M., LAGROU K., LENGEROVA M., **MATOS O.**, MELCHERS W. (2016). European study on *Pneumocystis jirovecii* short tandem repeats genotyping reveals wide population diversity with geographic specificities. *Journal de Mycologie Médicale*, 26(2): e5-e6.
  - CALDERON E. J., CUSHION M. T., XIAO L., LORENZO-MORALES J., **MATOS O.**, KANESHIRO E. S., WEISS L. M. (2015). The 13th International Workshops on Opportunistic Protists (IWOP13). *Journal of Eukaryotic Microbiology*, 0, 1–9.
  - ESTEVES F., CALÉ S. S., BADURA R., DE BOER M. G., MALTEZ F., CALDERON E. J., VAN DER REIJDEN T. J., MARQUEZ-MARTIN E., ANTUNES F., **MATOS O.** (2015). Diagnosis of *Pneumocystis* pneumonia: evaluation of four serologic biomarkers. *Clinical Microbiology and Infection*, 21(4): 379.e1–379.e10.
  - VIEIRA P. M., MEDERLE N., LOBO M. L., IMRE K., MEDERLE O., XIAO L., DARABUS G. & **MATOS O.\*** (2015). Molecular characterization of *Cryptosporidium* (Apicomplexa) in children and cattle in Romania. *Folia Parasitologica*, 62: 002.
  - LOBO M. L., AUGUSTO J., ANTUNES F., CEITA J., XIAO L., CODICES V. & **MATOS O.\*** (2014). *Cryptosporidium* spp., *Giardia duodenalis*, *Enterocytozoon bienersi* and other intestinal parasites in young children in Democratic Republic of São Tomé and Príncipe. *PLoS ONE*, 9(5): e97708.
  - ESTEVES F., LEE C.-H., DE SOUSA B., BADURA R., SERINGA M., FERNANDES C., GASPAR J. F., ANTUNES F. & **MATOS O.\*** (2014). (1-3)-Beta-D-glucan in association with lactate dehydrogenase as biomarkers of *Pneumocystis* pneumonia (PcP) in HIV-infected patients. *European Journal of Clinical Microbiology and Infectious Diseases*. 33: 1173–1180.
  - ESTEVES F., MEDRANO F. J., DE ARMAS Y., WISSMANN G., CALDERÓN E. J.\* & **MATOS O.\*** (2014). *Pneumocystis* and Pneumocystosis: First Meeting of experts from Latin-American and Portuguese-speaking Countries - A mini-review. *Expert Review of Anti-infective Therapy*, Early online, 1–4.

- ESTEVES F., ANTUNES F. & **MATOS O.\*** (2014). *Pneumocystis* e pneumocistose: o agente patogénico e a doença (105 anos de investigação). *Revista Portuguesa de Doenças Infecciosas*, 10: 16-22.
- ESTEVES F., AGUIAR D., ROSADO J., COSTA M. L., DE SOUSA B., ANTUNES F. & **MATOS O.\*** (2014). *Toxoplasma gondii* prevalence in cats from Lisbon and in pigs from centre and south of Portugal. *Veterinary Parasitology*, 200: 8-12.
- LOBO M. L., ESTEVES F., DE SOUSA B., CARDOSO F., CUSHION M. & **MATOS O.\*** (2013). Therapeutic potential of Caspofungin combined with Trimethoprim-Sulfamethoxazole for *Pneumocystis* pneumonia: a pilot study in mice. *PLoS ONE*, 8(8): e70619.
- WEISS L. M., CUSHION M. T., DIDIER E., XIAO L., MARCIANO-CABRAL F., SINAI A. P., **MATOS O.**, CALDERON E. J. & KANESHIRO E. S. (2013). The 12th International Workshops on Opportunistic Protists (IWOP12). *Journal of Eukaryotic Microbiology*, 0: 1-11.
- PONCES-BENTO D., ESTEVES F., **MATOS O.**, MIRANDA A. C., VENTURA F., ARAÚJO C. & MANSINHO K. (2013). Unusual coexistence of opportunistic lung infections in a HIV positive patient suffering from persistent *Pneumocystis jirovecii* pneumonia (PcP): a case report. *Revista Portuguesa de Pneumologia*, 19 (3): 129-133.
- CÓDICES V., **MATOS O.**, NOVO C. (2013). Monoclonal antibody technology applied to the detection of *Cryptosporidium parvum* oocysts in human and cattle fecal samples. *Advances in Bioscience and Biotechnology*, 4: 7-16.
- ESGALHADO R., ESTEVES F., ANTUNES F. & **MATOS O.\*** (2013). Study of the epidemiology of *Pneumocystis carinii* in abattoir swine in Portugal. *Medical Mycology*, 51: 66-71.
- CÓDICES V., MARTINS C., NOVO C., PINHO M., DE SOUSA B., MENDES Â., BORREGO M. & **MATOS O.\*** (2013). Cell phenotypic change due to *Cryptosporidium parvum* infection in immunocompetent mice. *Acta Parasitologica*, 58 (1): 70-79.
- CÓDICES V., MARTINS C., NOVO C., DE SOUSA B., LOPES Â., BORREGO M. & **MATOS O.\*** (2013). Dynamics of cytokines and immunoglobulins serum profiles in primary and secondary *Cryptosporidium parvum* infection: usefulness of Luminex® xMAP technology. *Experimental Parasitology*, 133: 106-113.
- **MATOS O.\*** (2012). *Pneumocystis jirovecii* pneumonia in Africa: Impact and implications of highly sensitive diagnostic technologies. *North American Journal of Medical Sciences* [serial online] 4: 486-487.
- **MATOS O.\***, LOBO M. L. & XIAO L.\* (2012). Epidemiology of *Enterocytozoon bienewsi* infection in humans. *Journal of Parasitology Research*. 2012, Article ID 981424, 19 pages (Review article)
- ESTEVES F., GASPAR J., DE SOUSA B., ANTUNES F., MANSINHO F. & **MATOS O.\*** (2012). *Pneumocystis jirovecii* multilocus genotyping in pooled DNA samples: A new approach for clinical and epidemiological studies. *Clinical Microbiology and Infection* 18: E177-E184.
- LOBO M. L., XIAO L., ANTUNES F. & **MATOS O.\*** (2012). Microsporidia as emerging pathogens and the implication for public health: a 10-year study on HIV-positive and -negative patients. *International Journal for Parasitology* 42: 197–205.

- IMRE K., LOBO L. M., **MATOS O.**, POPESCU C., GENCHI C. & DĂRĂBUS G. (2011). Molecular characterisation of *Cryptosporidium* isolates from pre-weaned calves in Romania: Is there an actual risk of zoonotic infections? *Veterinary Parasitology* 181(2-4): 321-324.
- FENG Y., LI N., DEAREN T., LOBO M. L., **MATOS O.**, CAMA V. & XIAO L. (2011). Development of a Multilocus Sequence Typing Tool for High-Resolution Genotyping of *Enterocytozoon bieneusi*. *Applied and Environmental Microbiology* 77 (14): 4822-4828.
- ESTEVES F, GASPAR J, DE SOUSA B, ANTUNES F, MANSINHO K & **MATOS O.\*** (2011). Clinical relevance of multiple single-nucleotide polymorphisms in *Pneumocystis jirovecii* pneumonia: development of a multiplex PCR-single-base-extension methodology. *Journal of Clinical Microbiology*, 49: 1810-1815.
- **MATOS O.\*** & ESTEVES F. (2010). Epidemiology and clinical relevance of *Pneumocystis jirovecii* (Frenkel, 1976) dihydropteroate synthase gene mutations. *Parasite*, 17: 219-232. (Review article)
- **MATOS O.\*** & ESTEVES F. (2010). *Pneumocystis jirovecii* multilocus gene sequencing: findings and implications. *Future Microbiology*, 5 (8): 1257-1267. (Review article)
- ESTEVES F., GASPAR J., MARQUES T., LEITE R., ANTUNES F., MANSINHO K. & **MATOS O.\*** (2010). Identification of relevant Single Nucleotide Polymorphisms in *Pneumocystis jirovecii*: relationship with clinical data. *Clinical Microbiology and Infection*, 16: 878-884.
- ESTEVES F., GASPAR J., TAVARES A., MOSER I., ANTUNES F., MANSINHO K. & **MATOS O.\*** (2010). Population structure of *Pneumocystis jirovecii* isolated from immunodeficiency virus positive patients. *Infection, Genetics and Evolution*, 10: 192-199.
- LOBO M. L., XIAO L., ANTUNES F. & **MATOS O.\*** (2009). Occurrence of *Cryptosporidium* and *Giardia* genotypes and subtypes in raw and treated water in Portugal. *Letters in Applied Microbiology*, 48: 732-737.
- IMRE K., **MATOS O.**, DĂRĂBUS G., MEDERLE N., OPRESCU I., MORARIU S., ILIE M. S., HOTEA I. & IMRE M. (2009). First genetic identification of *Cryptosporidium* spp. in cattle in Romania. *Lucrari Stiintifice - Universitatea de Stiinte Agricole a Banatului Timisoara, Medicina Veterinara*, 42 (1): 26-30.
- ESTEVES F., TAVARES A., COSTA M. C., GASPAR J., ANTUNES F. & **MATOS O.\*** (2009). Genetic characterization of the UCS and Kex1 loci of *Pneumocystis jirovecii*. *European Journal of Clinical Microbiology and Infectious Diseases*, 28:175–178.
- ESTEVES F., MONTES-CANO M. A., DE LA HORRA C., COSTA M. C., CALDERÓN E. J., ANTUNES F. & **MATOS O.\*** (2008). *Pneumocystis jirovecii* multilocus genotyping profiles in patients from Portugal and Spain. *Clinical Microbiology and Infection*, 14: 356-362.
- WAAP H., GASPAR J., LOBO M. L. & **MATOS O.\*** (2008). Detection of DNA belonging to the genus *Besnoitia* in water. *Revista Portuguesa de Ciências Veterinárias*, 103: 90-92.
- GRACZYK T. K., JOHANSSON M. A., TAMANG L., VISVESVARA G. S., MOURA L. S., DASILVA A. J., GIROUARD A. S. & **MATOS O.** (2007). Retrospective species identification of microsporidian spores in diarrheic fecal samples from human immunodeficiency virus/AIDS

patients by multiplexed fluorescence in situ hybridization. *Journal of Clinical Microbiology*, 45: 1255-1260.

- LOBO M.L., XIAO L., CAMA V., MAGALHÃES N., ANTUNES F. & **MATOS O.\*** (2006). Identification of potentially human-pathogenic *Enterocytozoon bieneusi* genotypes in various birds. *Applied and Environmental Microbiology*, 72: 7380-7382.
- COSTA M.C., ESTEVES F., ANTUNES F. & **MATOS O.\*** (2006). Genetic characterization of dihydrofolate reductase gene of *Pneumocystis jirovecii* isolates from Portugal. *Journal of Antimicrobial Chemotherapy*, 58: 1246-1249.
- COSTA M.C., ESTEVES F., ANTUNES F. & **MATOS O.\*** (2006). Multilocus genotyping of *Pneumocystis jirovecii* in immunocompromised patients: Preliminary results. *Journal of Eukaryotic Microbiology*, 53: S104–105.
- TOTET A., GRESILLON K., **MATOS O.**, LUNDGREN B., ROUX P., HAUSER P. & NEVEZ G. (2006). *Pneumocystis jirovecii* genotypes in European patients with chronic obstructive pulmonary diseases. *Journal of Eukaryotic Microbiology*, 53: S102–103.
- MAGALHÃES N., LOBO L. C., ANTUNES F. & **MATOS O.\*** (2006). Aves e cães como potencial fonte de infecção zoonótica por microsporídeos para o homem. *Revista Portuguesa de Ciências Veterinárias*, 101: 69-75.
- LOBO M.L., XIAO L., CAMA V., ANTUNES F. & **MATOS O.\*** (2006). Genotypes of *Enterocytozoon bieneusi* in mammals in Portugal. *Journal of Eukaryotic Microbiology*, 53: S61–64.
- **MATOS O.\***, COSTA M. C., CORREIA I., MONTEIRO P., VIEIRA J. R., SOARES J., BONNET M., ESTEVES F. & ANTUNES F. (2006). Infecção por *Pneumocystis jirovecii* em imunocompetentes com patologia pulmonar, em Portugal. *Acta Médica Portuguesa*, 19: 121-126.
- LOBO M.L., SILVEIRA H., RAMOS S., XIAO L. & **MATOS O.\*** (2006). Characterization of a pathogen related to *Vavraia culicis* detected in a laboratory colony of *Anopheles stephensi*. *Journal of Eukaryotic Microbiology*, 53: S65–67.
- ALVES M., RIBEIRO A. M., NETO C., FERREIRA E., BENOLIEL M. J., ANTUNES F. & **MATOS O.\*** (2006). Distribution of *Cryptosporidium* species and subtypes in water samples, in Portugal: A preliminary study. *Journal of Eukaryotic Microbiology*, 53: S24-25.
- ALVES M., XIAO L., ANTUNES F. & **MATOS O.\*** (2006). Distribution of *Cryptosporidium* subtypes in humans and domestic and wild ruminants in Portugal. *Parasitology Research*, 99: 287-292.
- LEMOS V., GRACZYK T. K., ALVES M., LOBO M. L., SOUSA M. C., ANTUNES F. & **MATOS O.\*** (2005). Identification and determination of the viability of *Giardia lamblia* cysts, *Cryptosporidium parvum* and *Cryptosporidium hominis* oocysts in human faecal and water supply samples by fluorescent in situ hybridization (FISH) and monoclonal antibodies. *Parasitology Research*, 98: 48-53.
- COSTA M. C., GASPAR J., MANSINHO K., ESTEVES F., ANTUNES F. & **MATOS O.\*** (2005). Detection of *Pneumocystis jirovecii* dihydropteroate synthase polymorphisms in patients with *Pneumocystis pneumonia*. *Scandinavian Journal of Infectious Diseases*, 37: 766-771.



- ALVES M., XIAO L., LEMOS V., ZHOU L., CAMA V., BARÃO DA CUNHA M., **MATOS O.** & ANTUNES F. (2005). Occurrence and molecular characterization of *Cryptosporidium* spp. in mammals and reptiles at the Lisbon Zoo. *Parasitology Research*, 97: 108-112.
- **MATOS O.\***, ALVES M., XIAO L. H., CAMA V. & ANTUNES F. (2004). *Cryptosporidium felis* and *C. meleagridis* in persons with HIV, Portugal. *Emerging Infectious Diseases*, 10: 2256-2257.
- **MATOS O.\***, LOBO M. L., TELES A. & ANTUNES F. (2004). Is microsporidial infection in animals a potential source for human microsporidiosis? *Southeast Asian Journal of Tropical Medicine and Public Health*, 35 (Suppl 1): 48-53.
- SULAIMAN I. M., FAYER R., YANG C., SANTIN M., **MATOS O.** & XIAO L. (2004). Molecular characterization of *Enterocytozoon bieneusi* in cattle indicates that only some isolates have zoonotic potentials. *Parasitology Research*, 92: 328-334.
- SULAIMAN I. M., **MATOS O.**, LOBO M. L. & XIAO L. (2003). Identification of a new microsporidian parasite related to *Vittaforma corneae* in HIV-positive and HIV-negative patients from Portugal. *Journal of Eukaryotic Microbiology*, 50: 586-590.
- **MATOS O.\***, COSTA M. C., CORREIA I., MONTEIRO P., MONTEIRO M., SOARES J., VIEIRA J. R., BONNET M. & ANTUNES F. (2003). *Pneumocystis jiroveci* carriage in Portuguese immunocompetent patients: preliminary results. *Journal of Eukaryotic Microbiology*, 50: 647-648.
- DELGADO E., PEREIRA DA FONSECA I., FAZENDEIRO M. I., **MATOS O.**, ANTUNES F. & BARÃO DA CUNHA M. (2003). Estudo preliminar da criptosporidiose nos ruminantes silváticos do Jardim Zoológico de Lisboa. *Revista Portuguesa de Ciências Veterinárias*, 98: 39-42.
- COSTA M. C., GASPAR J., RIBEIRO C., ANTUNES F. & **MATOS O.\*** (2003). Dihydropteroate synthase (DHPS) genotyping by PCR-RFLP analysis of *Pneumocystis jiroveci* repeated isolates from HIV-infected patients: a preliminary study. *Journal of Eukaryotic Microbiology*, 50: 607-608.
- LOBO M. L., TELES A., BARÃO DA CUNHA M., HENRIQUES J., LOURENÇO A. M., ANTUNES F. & **MATOS O.\*** (2003). Microsporidia detection in stools from pets and animals from the Zoo, in Portugal: a preliminary study. *Journal of Eukaryotic Microbiology*, 50: 581-582.
- ALVES M., **MATOS O.** & ANTUNES F. (2003). Microsatellite analysis of *C. hominis* and *C. parvum* in Portugal: a preliminary study. *Journal of Eukaryotic Microbiology*, 50: 529-530.
- DELGADO E., PEREIRA DA FONSECA I., FAZENDEIRO I., **MATOS O.**, ANTUNES F. & CUNHA M. B. (2003). *Cryptosporidium* spp. in ruminants at the Lisbon Zoo. *Journal of Zoo and Wildlife Medicine*, 34: 352-356.
- **MATOS O.\***, LEE C-H., JIN S., LI B., COSTA M. C., GONÇALVES L. & ANTUNES F. (2003). *Pneumocystis jiroveci* in Portuguese immunocompromised patients: association of specific ITS genotypes with treatment failure, bad clinical outcome and childhood. *Infection, Genetics and Evolution*, 3; 281-285.
- COSTA M. C., HELWEG-LARSEN J., LUNGREN B., ANTUNES F. & **MATOS O.\*** (2003). Mutations in the dihydropteroate synthase gene of *Pneumocystis jiroveci* isolates from

Portuguese patients with *Pneumocystis pneumonia*. *International Journal of Antimicrobial Agents*, 22: 516-520.

- ALVES M., XIAO L., SULAIMAN I., LAL A. A., **MATOS O.** & ANTUNES F. (2003). Subgenotype analysis of *Cryptosporidium* isolates from humans, cattle, and zoo ruminants in Portugal. *Journal of Clinical Microbiology*, 41: 2744-2747.
- **MATOS O.\***, LOBO M. L., GONÇALVES L. & ANTUNES F. (2002). Diagnostic use of 3 techniques for identification of microsporidian spores among AIDS patients in Portugal. *Scandinavian Journal of Infectious Diseases*, 34: 591-593.
- COSTA M. C., HELWEG-LARSEN J., ANTUNES F., LUNDGREN B., DIOGO J. & **MATOS O.\*** (2001). PCR-RFLP Analysis of DHPS gene for the study of resistance of *Pneumocystis carinii* to sulpha drugs in patients with co-infection PCP/HIV. *Journal of Eukaryotic Microbiology*, Supl: S148-S149.
- **MATOS O.\***, LOBO M. L. & ANTUNES, F. (2001). Methodology of the diagnosis of microsporidiosis in urine and pulmonary specimens from AIDS patients. *Journal of Eukaryotic Microbiology*, Supl: S69-S70.
- PENG M. M., **MATOS O.**, GATEI W., DAS P., STANTIC-PAVLINIC M., BERN C., SULAIMAN I. M., GLABERMAN S., LAL A. A. & XIAO L. H. (2001). A comparison of *Cryptosporidium* subgenotypes from several geographic regions. *Journal of Eukaryotic Microbiology*, Supl: S28-S31.
- ALVES M., **MATOS O.**, FONSECA I., DELGADO E., LOURENÇO A.M. & ANTUNES F. (2001). Multilocus genotyping of *Cryptosporidium* isolates from human HIV-infected and animal hosts. *Journal of Eukaryotic Microbiology*, Supl: S17-S18.
- **MATOS O.\***, COSTA M. C., LUNDGREN B., CALDEIRA L., AGUIAR P. & ANTUNES F. (2001). Effect of oral washes on the diagnosis of *Pneumocystis carinii* pneumonia with a low parasite burden and on detection of organisms in subclinical infections. *European Journal of Clinical Microbiology & Infectious Diseases*, 20: 573-575.
- ALVES M., **MATOS O.** & ANTUNES F. (2001). Multilocus PCR-RFLP analysis of *Cryptosporidium* isolates from HIV-infected patients from Portugal. *Annals of Tropical Medicine & Parasitology*, 95: 627-632.
- ALVES M., **MATOS O.**, SPANO F. & ANTUNES F. (2000). PCR-RFLP analysis of *Cryptosporidium parvum* isolates from HIV-infected patients in Lisbon, Portugal. *Annals of Tropical Medicine and Parasitology*, 94: 291-297.
- **MATOS O.\***, COSTA M. C., CALDEIRA L., MANSINHO K., AGUIAR P., FORTE M., PEDRO M. & ANTUNES F. (2000). Diagnóstico da pneumonia por *Pneumocystis carinii* (PPC) – Avaliação de duas técnicas de PCR, aplicadas a amostras de soro de doentes imunocomprometidos. *Revista Portuguesa de Doenças Infecciosas*, 4: 152-155.
- **MATOS O.\***, LUNDGREN B., CALDEIRA L., MANSINHO K., AGUIAR P., FORTE M. & ANTUNES F. (2000). Evaluation of two nested polymerase chain reactions for diagnosis of *Pneumocystis carinii* pneumonia in immunocompromised patients. *Clinical Microbiology and Infection*, 6: 149-152.

- **MATOS O.\***, LUNDGREN B., CALDEIRA L., MANSINHO K., AGUIAR P., FORTE M. & ANTUNES F. (1999). Evaluation of a nested PCR for detection of *Pneumocystis carinii* in serum from immunocompromised patients. *Journal of Eukaryotic Microbiology*, 46: S104- S105.
- **MATOS O.\***, LUNDGREN B., AGUIAR P., COSTA M. & ANTUNES F. (1999). Comparison of four methods of extraction of *Pneumocystis carinii* DNA from pulmonary specimens and serum. *Journal of Eukaryotic Microbiology*, 46: S102-S103.
- LEE C. H., TANG X., JIN S., LI B., BARTLETT M. S., LUNDGREN B., HELWEG-LARSEN J., OLSSON M., VERMUNG S. H., LUCAS S.B., ROUX P., ATZORI C., **MATOS O.** & SMITH J. W. (1998). Update on *Pneumocystis carinii* f. sp. *hominis* typing based on nucleotide sequence variations in the internal transcribed spacer regions of RNA genes. *Journal of Clinical Microbiology*, 36: 734-741.
- **MATOS O.\***, TOMÁS A., AGUIAR P., CASEMORE D. & ANTUNES F. (1998). Prevalence of cryptosporidiosis in AIDS patients with diarrhoea in Santa Maria Hospital, Lisbon. *Folia Parasitologica*, 45: 162-165.
- **MATOS O.\***, AZEVEDO P., CALDEIRA L., MENDES A. C., ARAÚJO A. T., FORTE M. & ANTUNES F. (1995). Estudo comparativo de três métodos morfológicos para diagnóstico da pneumonia por *Pneumocystis carinii* (PPC) em infectados por vírus da imunodeficiência humana (VIH). *Revista Portuguesa de Doenças Infecciosas*, 18: 135-138.
- SHAWLER T. H., HUBBART VAN S., REICHERT C. M., **MATOS O. M. G.** (1983). Cystic ovaries in cystic fibrosis: an ultrasound and autopsy study. *Journal of Ultrasound Medicine*, 2: 439-444.

#### **-Non-referred Papers:**

- **MATOS O.\*** & ESTEVES F. (2013). *Pneumocystis* e pneumocistose: um problema de saúde pública à escala global? Opinion article, *SIDA*, 1 (4): 8.
- **MATOS O.\*** (2012). Protozooses intestinais e microsporidia. *Anais - Instituto de Higiene e Medicina Tropical – Comemorativa Edition*, 11: 51-52.  
[http://www.ihmt.unl.pt/Biblioteca/Anais/HTMLS/Vol11\\_2012/index.html](http://www.ihmt.unl.pt/Biblioteca/Anais/HTMLS/Vol11_2012/index.html)
- ESTEVES F. & **MATOS O.\*** (2012). Colaborações Científicas: A investigação científica no âmbito da Pneumocistose, uma importante doença infecciosa oportunista. Viewpoint article, *News@FMUL*, 26, Fevereiro-Março:1-4.  
<http://news.fm.ul.pt/Backoffice/UserFileFile/News26/Olga%20Matos.pdf>
- DELGADO E., PEREIRA DA FONSECA I., FAZENDEIRO M., **MATOS O.** & ANTUNES F. (2000). Alguns aspectos sobre a criptosporidiose nos ruminantes silváticos do Jardim Zoológico de Lisboa. *Acta Parasitológica Portuguesa*, 7 (1-2): 33-38. ISSN 0872-5292
- LOURENÇO A. M., BRUNO DE SOUSA C., **MATOS O.**, ALVES M., PEREIRA DE FONSECA I. M. & ANTUNES F. (2000). Estudo preliminar da criptosporidiose em gamos (*Dama dama* L.) de Tapada Nacional de Mafra (Portugal). *Acta Parasitológica Portuguesa*, 7 (1-2): 29-31. ISSN 0872-5292
- **MATOS O.\***, VERDELHO C., COSTA M. C., GONÇALVES L. & ANTUNES F. (2000). Avaliação de um método de amplificação de ácidos nucleicos por reacção em cadeia da polimerase (PCR) para o diagnóstico da pneumonia por *Pneumocystis carinii* em secreções pulmonares. *Acta Parasitológica Portuguesa*, 7 (1-2): 25-28. ISSN 0872-5292.

**-Chapters in Books:**

- **MATOS O.** (2018). Pneumocistose e toxoplasmose. In: Manual sobre sida, 5ª edição. Francisco Antunes (editor). Permanyer Portugal, V Secção, Cap. 4.2, pp. 111-121. (in press)
- **MATOS O., TOMÁS A. L., ANTUNES F.** (2017). *Pneumocystis jirovecii* and Pneumocystosis. In: Current Progress in Medical Mycology. Montes H. M. M & Lopes-Bezerra L. M. (editores). Springer, Cap. 7, pp. 215-254. DOI: 10.1007/978-3-319-64113-3\_7
- **MATOS O. & ESTEVES F.** (2016). Laboratory diagnosis of *Pneumocystis jirovecii* pneumonia. In: Microbiology of respiratory system infection. Kon K. & Rai M. (editores). Elsevier, Cap. 13, pp. 185-210. DOI: 10.1016/B978-0-12-804543-5.00013-0
- **MATOS O. & LOBO M. L.** (2015). *Enterocytozoon*. In: Molecular Biology of Food and Water borne Mycotoxigenic and Mycotic Fungi. R. Russel M. Paterson & Nelson Lima (editores). Food Microbiology Series (series editor: Dongyou Liu), CRC Press, Cap. 20, pp. 293-321. ISBN 9781466559868
- **CARDOSO F. & MATOS O.** (2013). Screening of methanol Portuguese ethno botanical plant extracts for the antimicrobial activity. In: Worldwide Research Efforts in the Fighting against Microbial Pathogens: From Basic Research to Technological Developments. A. Méndez-Vilas (editor). BrownWalker Press, Boca Raton, FL, USA, pp. 235-238. ISBN 9781612336367
- **MATOS O., ÂNGELO H. & ANTUNES F.** (2011). Protozoários oportunistas e *Pneumocystis jirovecii*. In: Manual sobre sida, 4ª edição. Francisco Antunes (editor). Permanyer Portugal, V Secção, Cap. 2, pp. 139-154. ISBN 9789737332533
- **MATOS O.** (2008). Zoo and Wild Mammals. In: *Cryptosporidium* and Cryptosporidiosis, 2ª edição. Ronald Fayer & Lihua Xiao (editores). Taylor & Francis Group, CRC Press, Cap. 16, pp. 419-436. ISBN 9781420052268
- **MATOS O., LOBO M. L., TELES A. & ANTUNES F.** (2007). Is microsporidial infection in animals a potential source for human microsporidiosis? In: Proceedings of the workshop on waterborne human microsporidia. Frank W. Schaefer III e H. D. Alan Lindquist (editores). U. S. Environmental Protection Agency, Cap. 3, pp. 57-66. EPA/600/R-07/087
- **MATOS O., ÂNGELO H. & ANTUNES F.** (2004). Infecções oportunistas e tumores. Protozoários oportunistas e *Pneumocystis*. In: Manual sobre SIDA, 2ª edição. Francisco Antunes (editor). Permanyer Portugal, V Secção, Cap. 2, pp. 109-122. ISBN 9727331467
- **MATOS O., ÂNGELO H. & ANTUNES F.** (2001). Infecções oportunistas e tumores. *Pneumocystis* e outros protozoários. In: Manual sobre SIDA, Francisco Antunes (editor). Permanyer Portugal, V Secção, Cap. 2, pp. 105-118. ISSN 08724814

**-Published Sequences in International Database of Reference:**

- **VIEIRA P. M., MEDERLE N., IMRE K., LOBO M. L., MEDERLE O., XIAO L., DARABUS G. & MATOS O.** (2013). Molecular sequences of the gene coding for surface glycoprotein 60 (gp60) of *Cryptosporidium parvum*, deposited in the GenBank of the NCBI with accession numbers KC469687, KC469688, KC469689, KC469690, KC469691, KC469692, KC469693, KC469694.

- FERNANDES C.B., ESTEVES F. & **MATOS O.** (2012). Molecular sequences of the cytochrome *b* (*CYB*) of *Pneumocystis jirovecii*, deposited in the GenBank of the NCBI with accession numbers JX292733, JX292734, JX292735 e JX292736.
- ESTEVES F., ESGALHADO R., ANTUNES F. & **MATOS O.** (2011). Molecular sequences of the large subunit of the mitochondrial rRNA (*mtLSU rRNA*) of *Pneumocystis f. sp. suis*, deposited in the GenBank of the NCBI with accession numbers JN887823 e JN887824.
- FENG Y., LI N., DEAREN T., LOBO M. L., MATOS O., CAMA V. & XIAO L. (2011) Molecular sequences of *Enterocytozoon bieneusi* deposited in the GenBank with accession numbers HQ615883 to HQ615925, JF927952 to JF927959, and JF951428 to JF951430.
- ESTEVES F., GASPAR J., TAVARES A., MOSER I., ANTUNES F., MANSINHO K. & **MATOS O.** (2010). Molecular sequences of *Pneumocystis jirovecii* deposited in the GenBank with accession numbers EU979566, EU979567, EU979568, EU979569, EU979570, EU979571 e EU979572.
- ESTEVES F., BENTO D., MANSINHO K. & **MATOS O.** (2010). Molecular sequences of *Pneumocystis jirovecii* deposited in the GenBank with accession numbers GU479992 e GU479993.
- ESTEVES F. & **MATOS O.** (2010). Molecular sequence of *Pneumocystis jirovecii* deposited in the GenBank with accession number GU479994.
- ESTEVES F., TAVARES A., COSTA M. C., GASPAR J., ANTUNES F. & **MATOS O.** (2009). Molecular sequences of *Pneumocystis jirovecii* deposited in the GenBank with accession numbers EU431323, EU431324, EU431325, EU431326, EU431327, EU437385, EU797518 e EU797519.
- ALVES M., XIAO L., SULAIMAN I., LAL A. A., **MATOS O.** & ANTUNES F. (2008). Molecular sequences of *Cryptosporidium hominis* deposited in the GenBank with accession numbers AY166810, AY166808, AY166807.
- PENG M. M., **MATOS O.**, GATEI W., DAS P., STANTIC-PAVLINIC M., BERN C., SULAIMAN I. M., GLABERMAN S., LAL A. A. & XIAO L. (2008). Molecular sequences of *Cryptosporidium parvum* deposited in the GenBank with accession numbers AF403785, AF402288, AF402287, AF402286, AF402285.
- SULAIMAN I. M., FAYER R., YANG C., SANTIN M., **MATOS O.** & XIAO L. (2008). Molecular sequences of *Enterocytozoon bieneusi* deposited in the GenBank with accession numbers AY331010, AY331009, AY331008, AY331007, AY331006, AY331005.
- LOBO M. L., XIAO L., CAMA V., MAGALHAES N., ANTUNES F. & **MATOS O.** (2007). Molecular sequences of *Encephalitozoon hellem* deposited in the GenBank with accession numbers. DQ425106, DQ425105, DQ425104.
- LOBO M. L., XIAO L., CAMA V., STEVENS T., ANTUNES F. & **MATOS O.** (2007). Molecular sequences of Sequências moleculares de *Enterocytozoon bieneusi* deposited in the GenBank with accession numbers DQ885583, DQ885582.
- ALVES M., XIAO L., **MATOS O.** & ANTUNES F. (2006). Molecular sequences of *Cryptosporidium hominis* deposited in the GenBank with accession numbers DQ280499, DQ280498, DQ280497, DQ280496, DQ280495, DQ280494.

- COSTA M. C., ESTEVES F., ANTUNES F. & **MATOS O.** (2006). Molecular sequences of *Pneumocystis jirovecii* deposited in the GenBank with accession numbers DQ417355, DQ417356, DQ417357, DQ417358, DQ417359 e DQ417360.
- LOBO M. L., XIAO L., CAMA V., MAGALHAES N., ANTUNES F. & **MATOS O.** (2006). Molecular sequences of *Enterocytozoon bieneusi* deposited in the GenBank with accession numbers DQ425108, DQ425107.
- LOBO M. L., XIAO L., CAMA V., STEVENS T., ANTUNES F. & **MATOS O.** (2006). Molecular sequences of *Enterocytozoon bieneusi* deposited in the GenBank with accession numbers DQ885588, DQ885587, DQ885586, DQ885585, DQ885584, DQ885581, DQ885580, DQ885579.
- PENG M. M., **MATOS O.**, GATEI W., DAS P., STANTIC-PAVLINIC M., BERN C., SULAIMAN I. M., GLABERMAN S., LAL A. A. & XIAO L. (2005). Molecular sequences of *Cryptosporidium parvum* deposited in the GenBank with accession numbers AF403165, AF403177, AF403176, AF403175, AF403174, AF403173, AF403172, AF403171, AF403170, AF403169, AF403168, AF403167, AF403166.
- SULAIMAN I. M., **MATOS O.**, LOBO M. L. & XIAO L. (2004). Molecular sequences of *Vittaforma-like* deposited in the GenBank with accession numbers AY375044, AY375043.
- ALVES M., XIAO L., SULAIMAN I. M., LAL A. A., **MATOS O.** & ANTUNES F. (2003). Molecular sequences of *Cryptosporidium parvum* deposited in the GenBank with accession numbers AY166809, AY166806, AY166805, AY166804.
- **MATOS O.**, LEE C. H., JIN S., LI B., COSTA M. C., GONCALVES L. & ANTUNES F. (2003). Molecular sequence of *Pneumocystis jirovecii* deposited in the GenBank with accession number AY390601.
- LEE C. H., HELWEG-LARSEN J., TANG X., JIN S., LI B., BARTLETT M. S., LU J. J., LUNDGREN B., LUNDGREN J. D., OLSSON M., LUCAS S. B., ROUX P., CARGNEL A., ATZORI C., **MATOS O.** & SMITH J. W. (1999). Molecular sequences of the ITS regions of *Pneumocystis jirovecii* deposited in the GenBank with accession numbers ITS1A, AF013806; ITS1B, AF013807; ITS1C, AF013808; ITS1D, AF013809; ITS1E, AF013810; ITS1F, AF013811; ITS1G, AF013812; ITS1H, AF013813; ITS1I, AF013814; ITS1J, AF013815; ITS1K, AF013816; ITS1L, AF013817; ITS1M, AF013818; ITS1N, AF013819; ITS1O, AF013820; ITS2a, AF013821; ITS2b, AF013822; ITS2c, AF013823; ITS2d, AF013824; ITS2e, AF013825; ITS2f, AF013826; ITS2g, AF013827; ITS2h, AF013828; ITS2i, AF013829; ITS2j, AF013830; ITS2k, AF013831; ITS2l, AF013832; ITS2m, AF013833; and ITS2n, AF013834.

## 8. PATENTS

Recombinant antigen and synthetic peptide of *Pneumocystis jirovecii* and its use in immunological diagnosis of pneumocystosis (patent application no. PT109078).

**9. RESEARCH PROJECTS –Coordinator/Co-coordinator** of 18 Research Projects with External Funding, and of 15 Internally Funded Research Projects. **Member** of 9 Research Projects with External Funding, 7 Internally Funded Research Projects, and 2 Strategic Projects

**-Coordinator of Research Projects with External Funding:**

- ERANET financed by FP7 Project CAPRI-PC / ELAC2014/HID0254 (2015-2018) “Recognition of the primary infection by *Pneumocystis* in infants: a silent threat to public health” (Co-PI, PI: Sergio Vargas).
- SFRH/BD/108433/2015 (2015-2018) “Development of an innovative approach for immunonodiagnosis of *Pneumocystis* pneumonia at the point-of-care”.
- Gilead GÉNESE - PGG/001/2014 (2015-2016) “Immunonano diagnosis of *Pneumocystis* pneumonia (PCP): an innovative approach based on the association of serological biosensors and nanoparticles”.
- VIH/SAU/0019/2011 (2014-2016) “Toxoplasmose/Sida: Papel da família de proteínas disulfito isomerase (PDI) na invasão da célula hospedeira, pelo agente patogénico *Toxoplasma gondii*”.
- PTDC/SAU-MIC/116716/2010 (2012-2014) “Relevância clínica de múltiplos marcadores genéticos na pneumonia por *Pneumocystis jirovecii* (PPc): Novas metodologias de alto rendimento para aplicação à epidemiologia molecular e diagnóstico”.
- MERCK SHARP AND DOHME (MSD) # 38903 (2011-2012) “Efficacy of Caspofungin and Caspofungin in association with TMP-SMZ in mice models of *Pneumocystis* (Preliminary study)”.
- FCT/PTDC/SAU-MII/104231/2008 e Associates of Cape Cod Incorporated (2010-2013) “The Role of B-glucan in *Pneumocystis jirovecii* Pneumonia (PcP): A new diagnostic tool”.
- FCT/SFRH/BD/46558/2008 (2009-2013) “Studies on the recombinant antibodies (scFv) and peptides use for immunotherapy and vaccination of criptosporidiosis”.
- WACT (ONGD) / Associação para a Investigação e Desenvolvimento da Faculdade de Medicina de Lisboa (AIDFM) (2009-2012) “Prevalence and epidemiological aspects of parasitic infections in the child population of S. Tome and Principe”.
- ADMINISTRAÇÃO REGIONAL DE SAÚDE LISBOA E VALE DO TEJO / CONFAR (2008-2011) “Chagas disease: monitoring of cases in blood donors, from endemic regions living in the Lisbon area, as a blood transfusion prevention strategy”.
- FCT/SFRH/BD/34674/2007 (2008-2010) “Human microsporidiosis in Portugal: epidemiology and species characterization by parasitological and molecular techniques and electronic microscopy”.
- ASSOCIAÇÃO PARA A INVESTIGAÇÃO E DESENVOLVIMENTO DA FACULDADE DE MEDICINA DE LISBOA (AIDFM) (2008-2009) “Study of the epidemiology and potential pathogenicity of *Pneumocystis carinii* f. sp. *suis* in abattoir swine in Portugal”.
- SCHERING-PLOUGH FARMA, LDA (2007-2009) “*Pneumocystis jirovecii* pneumonia (PcP) in HIV-seropositive patients: prevalence and genetic diversity”.
- FCT/SFRH/BD/22193/2005 (2006-2009) “Identification of multiple markers in *Pneumocystis jirovecii*: relationship with clinical outcome”.
- FCT/FEDER – POCTI/ESP/46369/2002 (2003-2006) “Study of the transmission dynamics of *Cryptosporidium* using molecular analysis of isolates from humans, animals and water”.
- ASSOCIAÇÃO PARA A INVESTIGAÇÃO E DESENVOLVIMENTO DA FACULDADE DE MEDICINA DE LISBOA (AIDFM) (2001-2004) “Intestinal parasitoses in children from Cabo Verde – prospective study”.
- EU RESEARCH AND TECHNOLOGICAL DEVELOPMENT PROJECTS / QLK2-CT-2000-01369 (2000-2004) “Subclinical human *Pneumocystis carinii* infection in immuno-competent individuals: a public health issue in Europe”. (Co-PI; PI: Enrique Calderon).
- PROGRAMA DE DESENVOLVIMENTO EDUCATIVO PARA PORTUGAL (PRODEP) (1994-1997) “Comparative study of methods for the morphologic diagnosis of *Pneumocystis carinii*”.

**-Member of Research Projects with External Funding:**

- PEst -OE/SAU/LA0018/2013 (STRATEGIC PROJECT - LA 18 – 2013-2014)
- Strategic project of the Center for Malaria and other Tropical Diseases.

- PEst-OE/SAU/LA0018/2011 (STRATEGIC PROJECT - LA 18 - 2011-2012)
- Strategic project of the Center for Malaria and other Tropical Diseases.
- CMDT-LA (2011-2012) “The usefulness of serologic infection markers in *Pneumocystis jirovecii* pneumonia (PcP): A new diagnostic approach”. (PI: Francisco Esteves).
- FCT/POCTI/ESP/38215/2001 (2002-2005) “Study of *Pneumocystis carinii* resistance to sulphamethoxazole in AIDS patients”. (PI: Francisco Antunes).
- FCT/POCTI/ESP/43635/2000 (2001-2004) “Study of the epidemiology and genetic diversity of *Cryptosporidium parvum* in Portugal”. (PI: Francisco Antunes).
- EU Biomed 2 /CORDIS BMH4 CT97 2557 / BIIIR PE0023-P (1997-1999) “Molecular typing of *Cryptosporidium parvum*: monitoring of strain variation in AIDS patients and identification of transmission routes”. (Co-PI: Francisco Antunes; PI: Andrea Crisanti).
- COMISSÃO NACIONAL DE LUTA CONTRA A SIDA (CNLCS) (1995-1997) “Molecular biology techniques applied to the diagnosis of *Pneumocystis carinii* in the AIDS patients”. (PI: Francisco Antunes)
- NCI, NIH, Bethesda, USA (1982-1983) “Antigenic phenotyping of breast cancer, employing monoclonal antibodies and immunohistochemistry”. (PI: Cheryl M. Reichert, MD, PhD). Participated as a visiting researcher.
- NCI, NIH, Bethesda, USA (1982-1983) “Cystic ovaries in cystic fibrosis: an ultrasound and autopsy study”. (PI: Cheryl M. Reichert, MD, PhD). Participated as visiting researcher.

## 9. ADVISORY/SUPERVISORY RESPONSIBILITIES

Supervised 4 Post-doc grants, 5 PhD and 26 Master students, 16 undergraduate students; Trained, supervised, and sponsored 27 traineeships (national and international) in technical development and research, and was Co-Research/Training Supervisor for 17 postgraduate students and/or technicians.

### -Scientific Supervisor for:

Alda do Rosário C. de S. Santos, **Graduation** in Biotechnology Engineering - University Lusófona (2000-2001).

Ema Paula Cardoso Martins, **Bachelor** in Biotechnology - University Lusófona (2001-2002).

Ana Mafalda M. M. Cachola, **Bachelor** in Biotechnology - University Lusófona (2001-2002).

Joana Rita do Carmo Cabrita, **Graduation** in Biology – Faculty of Biology, University of Lisbon (2001-2002).

Francisco V. de Carvalho Esteves, **Graduation** in Biotechnology Engineering - University Lusófona (2002-2003).

Ana Isabel P. Boléo Teles, **Graduation** in Biology – University of Évora (2002-2003).

Marina Célia Nunes Ferreira da Costa, **PhD** in Biomedical Sciences, Speciality of Parasitology, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2003-2007).

Joana Andreia Aguilar Ramos, **Graduation** in Biotechnology Engineering - University Lusófona (2003-2004).

Hugo Pinheiro, **Graduation** in Chemical Sciences - Piaget Institute (2004-2005).

Nuno Miguel Viveiros Pereira Dias, **Graduation** in Biology – University of Évora (2004-2005).

Ana Margarida da C. Raimundo, **Graduation** in Biotechnology Engineering - University Lusófona (2004-2005).

Cecília Maria M. da Silva, **Graduation** in Biotechnology Engineering - University Lusófona (2004-2005).

Ana Rita Oliveira Lucas, **Master** Degree in Medical Parasitology, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2004-2005).

Nuno de Sousa Trêpa Magalhães, **Master** Degree in Emerging Infectious Diseases, Faculty of Medicine, University of Lisbon (2004-2005).

José Francisco Ferreira, **Master** Degree in Emerging Infectious Diseases, Faculty of Medicine, University of Lisbon (2005-2006).

Patrícia A. dos Santos Azevedo, **Graduation** in Biology – University of Évora (2006-2007).



Ana Marta F. Pires Belo, **Graduation** in Biology – University of Évora (2006-2007).  
Adélcia Margareth C. Tavares, **Graduation** in Biology – University of Coimbra (2006-2007).  
Inês Ataíde de M. Moser, **Graduation** in Biotechnology Engeneering - University Lusófona (2006-2007).  
Helga Marlene C. Waap, **Master** Degree in Medical Parasitology, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2006-2007).  
Susana Isabel C. A. Martins, **Master** Degree in Medical Parasitology, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2006-2007).  
Francisco Vaz de Carvalho Esteves, **PhD** in Biomedical Sciences, Speciality of Parasitology, Institute of Hygiene and Tropical Medicine, New University of Lisbon, grant from the Foundation for Science and Technology (FCT) SFRH/BD/22193/2005 (2006-2010).  
Maria Luisa Lobo da Costa, **PhD** in Biomedical Sciences, Speciality of Parasitology, Institute of Hygiene and Tropical Medicine, New University of Lisbon, grant from the Foundation for Science and Technology (FCT) SFRH/BD/34674/2007 (2007/2010).  
Filipe Miguel Reis Martinho, **Master** Degree in Emerging Infectious Diseases, Faculty of Medicine, University of Lisbon (2007-2008).  
Nuno Miguel M. V. Cabrita Martins, **Master** Degree in Molecular Biology and Genetics, Faculty of Science, University of Lisbon (2007-2008).  
Daniela Cristina R. de Aguiar, **Master** Degree in Emerging Infectious Diseases, Faculty of Medicine, University of Lisbon (2007-2008).  
Rita Guerreiro Esgalhado, **Master** Degree in Emerging Infectious Diseases, Faculty of Medicine, University of Lisbon (2008-2009).  
Joana Rosado, **Master** Degree in Biomedical Sciences, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2008-2009).  
Dinah Carvalho, **Master** Degree in Clinical Microbiology, Faculty of Medicine, University of Lisbon (2009-2010).  
Vera Alexandra da Rosa Codices, **PhD** in Biomedical Sciences, Speciality of Parasitology, Institute of Hygiene and Tropical Medicine, New University of Lisbon, grant from the Foundation for Science and Technology (FCT) SFRH/BD/46558/2008 (2009/2013).  
Maria Margarida Seringa, **Master** Degree in Medical Parasitology, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2010-2012).  
Patrícia Vieira, **Master** Degree in Biomedical Sciences, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2011-2012).  
Camila Fernandes, **Master** Degree in Biomedical Sciences, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2012-2013).  
Sónia Sofia Dantas Calé, **Master** Degree in Biotechnology Engeneering - University Lusófona. Co-adviser; adviser: F. Esteves (2012-2013).  
Gilberta Maria Inácio Patrocínio, **Master** Degree in Biomedical Sciences, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2012-2014).  
Liliana Silva, **Master** Degree in Biomedical Sciences, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2012-2014).  
Rafaela Dorileo de Castro, **Master** Degree in Tropical Health , Institute of Hygiene and Tropical Medicine, New University of Lisbon. Co-advisor; adviser: J. Gaspar (2012-2014).  
Maria da Conceição Carvalho, **Master** Degree in Biomedical Sciences, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2012-2014).  
Florabela Pereira, **Master** Degree in Emerging Infectious Diseases, Faculty of Medicine, University of Lisbon (2012-2014).  
Maria Luisa Costa, **Post-doc** grant, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2011-2012).  
Francisco Esteves, **Post-doc** grant, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2011-2012).  
Francisco Esteves, **Post-doc** grant, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2012-2015).

Maria Luisa Costa, **Post-doc** grant, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2014-2016).

Mariana Coutinho, **Master** Degree in Biotecnology, Faculty of Science and Tecnology, New University of Lisbon (co-mentor) (2014-2015).

Marta Maria Ramos Soares Ribeiro, **Master** Degree in Biomedical Sciences, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2014-2015).

Livonilda da Luz Lopes Gomes, **Master** Degree in Medical Parasitology, Institute of Hygiene and Tropical Medicine, New University of Lisbon (co-mentor) (2015-2016).

Mafalda Pinto, **Master** Degree Molecular Genetics and Biomedicine, Faculty of Science and Tecnology, New University of Lisbon (co-mentor) (2015-2016).

Cátia Isabel Almeida Mota, **Master** Degree in Biomedical Sciences, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2015-2016).

Mónica Sofia Neves Garcia, **Master** Degree in Medical Parasitology, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2015-2016).

Ana Luisa Regatão Tomás Chocalheiro, **PhD** in Biomedical Sciences, Institute of Hygiene and Tropical Medicine, New University of Lisbon, grant from the Foundation for Science and Technology (FCT) SFRH/BD/108433/2015 (2015-2019).

#### **-Major Training Supervisor and Sponsor for:**

Ana Paula da Silva Maduro, Clinic Analysis **Technician**, (2000-2001).

Hipólito Gómez Couso, **PhD student** from Faculty of Pharmacy, University of Santiago de Compostela, Spain (November-December, 2001).

João Luís Rebelo Marçal Lago, **MD**, responsible for the Laboratory of Microbiology of the Military Hospital of Belém, Lisbon (July 2002).

Maria Luísa L. F. da Costa, **Biologist, MSc** (2001-2003).

Carlos Bubacar Baldé, **Graduated in Pharmacy**, from the Ministry of Health of Republic of Guine-Bissau (August 2003).

Ana Isabel Pontífice Boléo Teles, **Biologist** (2003-2004).

Francisco V. de Carvalho Esteves, **Biotechnology Engineer** (2003-2005).

Edgar Neyra, **Researcher** at the Institute of Tropical Medicine “Alexander von Humboldt”, Peruan University Cayetano Heredia, Lima, Peru, (September 2004).

Cláudia Margarida Oliveira Afonso, **MD, Internship** of Infectious Disesases at University Hospital de Santa Maria (Fevereiro 2005).

Ana Margarida Ribeiro, **Graduated in Biologic Engineering**, Technician at the central laboratory of the Lisbon Water Supply Company (EPAL) (Março 2005).

António Joaquim Amorim Santos, **Superior Technician** (September 2005-January 2006).

Mariama Seidi Dias, **MD, Internship** of Infectious Disesases at University Hospital de Santa Maria (Novembro 2006).

Tiago Miguel Pinheiro Gonçalves Marques, **MD, Internship** of Infectious Disesases at University Hospital de Santa Maria (March 2008).

Marina Klikó, **MD** (2008-2010).

Sérgio Vieira dos Santos, **Master student** at the Institute of Tropical Medicine of São Paulo, Brazil, (January 2009).

João Manuel de Castro, PhD, **Professor** at the University Guarulhos, São Paulo, Brazil (January 2009).

Irina Maria Duarte Santos, **Graduated in Pharmacy** (April 2009).

Andreas Domke, **Medical student** ERASMUS Program, from Germany (October 2009).

Diego Leal, **PhD student**, from Brazil (September/October 2010).

Maria de Jesus Patrício, **Master student** at Master Course in Molecular Biology and Microbiology, University of Algarve (January-December 2011).

Alfeu Passanduca, **Medical Doctor** at Faculty of Medicine Universidade Eduardo Mondlane, Maputo,

Moçambique (January-October 2012).

Florbela Pereira, **Graduated in Pharmacy** (July-December 2012).

Regina Helena Saramago Peralta, **Associate Professor** at Faculty of Medicine, Universidade Federal Fluminense, Rio de Janeiro, Brazil (November 2012).

Yaxsier de Armas, **Assistant Professor** at Instituto de Medicina Tropical Pedro Kouri, Havana, Cuba, (October-November 2013).

Maria Wesolowska **Researcher** at Wroclaw Medical University, Polónia, LEONARDO DA VINCI Program (May-June 2014).

Marta Kicia, **Researcher** at Wroclaw Medical University, Polónia, LEONARDO DA VINCI Program (May-June 2014).

Mariana Coutinho, **Master student** at Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (October- July 2015).

#### **-Co-Research/Training Supervisor for:**

Wiman Sanasuttipum, **Biologist** at the Department of Parasitology, University of Mahidol, Thailand (1989-1990).

Maria Luísa Sena de Lemos Falcão, **MD**, Hospital Center of Vila Nova de Gaia, Portugal (1991).

Ciro Pérez Giraldo, **MD**, Faculty of Medicine of Badajoz, Spain (1991).

Maria Teresa Moura Casimiro, **Laboratory analysis technician** from Guine-Bissau (December 1993).

Isabel Fonseca, **Doctorate student** in Veterinary Medicine (1995-2000).

José Diogo, **Master student** in Medical Parasitology (1996-1998).

Margarida Alves, **Master student** in Medical Parasitology (1996-1998).

Sandra Louro, **Graduation student** in Biotechnology Engineering (1998).

Iedena Lima, **Bachelor student** in Biotechnology (1998).

Marina Célia Nunes Ferreira, **Graduation student** in Biology (1998-1999).

Esmeralda Delgado, **Master student** in Tropical Veterinary Medicine and Zootecology (1998-1999).

Luísa Costa, **Master student** in Medical Parasitology (1998-2000).

Corina Maria Algarvio Verdelho, **Bachelor student** in Biotechnology (1999-2000).

Tânia Sofia Santos Miguel, **Bachelor student** in Biotechnology (1999-2000).

Carla Isabel Santos Ribeiro, **MD, Internship** of Infectious Diseases at University Hospital de Santa Maria (December 2000).

Maria Margarida Ferreira Alves, **Doctorate student** in Biomedical Sciences, Speciality of Parasitology, Institute of Hygiene and Tropical Medicine, New University of Lisbon (2001-2006).

Vanessa Oliveira Guedes Lemos, **Master student** in Medical Parasitology (2002-2004)

## **10. AWARDS AND GRANTS**

- National Prize of the Cuban Academy of Sciences awarded to scientific research work “*Pneumocystis jirovecii* en niños y adolescentes com diferentes enfermedades. Nuevos aportes al conocimiento” de Yaxsier de Armas Rodríguez (PI), Ernesto Monroy Vaca, Maria Teresa Illnait Zaragoza, Gilda Toraño Peraza, Raúl Díaz Rodríguez, Dania Veja Mendoza, Ileana Álvarez Lam, Virginia Capó de Paz, Jorge E. Pérez Lastre, Geraldo Martínez Machín (co-authors) e Enrique Calderón, Olga Matos, Arturo Plascencia, Christen R. Stensvold (colaborators) (2017).
- Award “Gilead” to the project “Immunonodiagnosis of *Pneumocystis* pneumonia (PCP): an innovative approach based on the association of serological biosensors and nanoparticles” (2014).
- Grant from the Scientific Community Support Fund (FACC) / FCT - Proc. 13/1/332 for financial support for the organization of the event “*Pneumocystis* and pneumocystosis: first meeting of experts from Latin-American and Portuguese-speaking countries” (2013).
- Grant from the Partnerships for Development, Gulbenkian Programme, to support the organization of the event “ *Pneumocystis* and pneumocystosis: first meeting of experts from Latin-American and Portuguese-speaking countries ” (2013).

- Award for “Second Best Poster” (as co-author) of the 7th Update Conference on Infectious Diseases of the Curry Cabral Hospital (2010).
- Burroughs-Wellcome Fund Grant for travel, Hawaii (2010).
- NIH Travel Grant, Boston (2008).
- Award for “Better Poster” (as co-author) II Reunión del Grupo EPOC de la SEMI, Valladolid, about “Pneumocystis colonization” (2007).
- Award “BAYER” to project “Molecular biology techniques applied to the diagnosis of *Pneumocystis carinii* in HIV-infected patients” (1995).
- Award “BAYER” to project “Study of the cellular immune response to *Pneumocystis carinii*” (1994).
- Doctorate studentship from PRODEP (1994-1997).

## 11. COMUNICACIONES

- **Invited talks (48)** in International (29) and National (19) Scientific Meetings.
- **Other Communications (190).**

## 12. ORGANIZATION OF CONFERENCES

- **Coordinator/Organizer** of 4 International Congresses/Meetings.
- **Member of Organizing Committee** of 14 (7 international and 7 national) Congresses/Meetings and Workshops.
- **Member of Scientific Committee** of 8 (4 international and 4 national) Congresses/Conferences.

## 13. SCIENTIFIC COLLABORATIONS - close collaborations in the areas:

**Pneumocystis** - Chao-Hung Lee, Indiana University, USA; Lawrence Huang, University of California San Francisco, USA; Melanie Cushion, Cincinnati VA Medical Center, USA, International PCP Collaboration Group, NIH, USA, Malcolm Finkelman, Associates of Cape Cod Incorporated, USA; Yaxsier de Armas, Institute of Tropical Medicine, Pedro Kouri, La Habana, Cuba; Sérgio Vargas, Santiago do Chile, Chile; Gustavo Wissman, Porto Alegre, Brazil; Bettina Lundgren, Hvidovre Hospital, Denmark; Enrique Calderon, Hospital Universitario Virgen del Rocío, Seville, Spain; Jahit Sacarlal, Universidade Eduardo Mondlane, Mozambique; Ricardo Franco, Faculty of Science and Technology, Portugal.

**Cryptosporidium, Giardia, Microsporidium and Toxoplasma:** Lihua Xiao, CDC, Atlanta, USA; Thaddeus Graczyk, Johns Hopkins University, USA; Oleg Ditrich, University of South Bohemia, Czech Republic; Carmen del Aguila, Madrid, Spain; Gheorghe Darabus and Narcisa Mederle, Timisoara, Romania; Regina M. Bueno Franco, São Paulo, Brazil; Bruno de Sousa, Universidade Coimbra, Portugal; and with several Portuguese institutions (Infectious Diseases Departments, Pulmonology Departments and Obstetrics Clinics of Santa Maria Hospital, Egas Moniz Hospital, Garcia d’Orta Hospital, Portuguese Institute of Blood, Center of Histocompatibility of Southern Portugal, Veterinary clinics, Faculty of Veterinary Medicine, Lisbon Water Distribution Company) and African Hospitals (Cape Verde, Angola, Sao Tome and Principe and Mozambique).