- **Title:** Postdoctoral Scholarship in Molecular Biology / Molecular Parasitology
- **Field of knowledge:** Genetics / Parasitology
- **FAPESP Process:** 2018 / 14398-0 **-** UK:Brazil Joint Centre Partnership in Leishmaniasis (JCPiL).
- **Project Title:** Does signaling during DNA replication stress drive genome diversity in *Leishmania*?
- **Principal Investigator:** Luiz R. O. Tosi
- **Unit/Institution:** Ribeirão Preto Medical School, University of São Paulo, Brazil
- **Partner Institution:** University of Glasgow, UK
- **Deadline for submissions:** October/25/2019
- **Publishing Date:** September/20/2019

  A Post-Doctoral Scholarship is available to work on the project "Does signaling during DNA replication stress drive genome diversity in *Leishmania*?". This project is a partnership between Brazilian (Luiz Tosi, USP) and British (Richard McCulloch, UoG) laboratories, part of the *UK:Brazil Joint Centre Partnership in Leishmaniasis (JCPiL)*. The postdoctoral fellow will develop the project at the Brazilian laboratory but will also spend periods at the UK laboratory.

  Applicants must have a PhD in Parasitology, Biochemistry, Genetics, Molecular Biology or related fields. Preference will be given to individuals with a proven experience on molecular parasitology/microbiology. Candidates should be creative, personally motivated, have excellent oral and written communication skills and a sense of teamwork. It is mandatory that applicants are fluent in English. The selected candidate will receive a Post-Doctoral Fellowship from FAPESP (explicit details are at **www.fapesp.br/en/5427**)

  **Summary of the project**: The genome of *Leishmania* is characterized by a remarkable plasticity that has been associated with the acquisition of drug resistance and with host adaptation. Here, we will explore if the parasite's signaling of replication 'stress' may underlie genome plasticity and diversity. The analysis of the ATR pathway, which is central to the detection and signaling DNA replication stress and damage, is key to understand the above questions. To date, there has been greater characterization of the *Leishmania* 9-1-1 complex, which is a key element at the early steps of the pathway. The main goal of this proposal is to extend the characterization of the ATR pathway and explore the structure and function of other key components of this orchestrated response.

  **How to apply:** Interested individuals should contact Luiz Tosi by email (**luiztosi@fmrp.usp.br** using "Postdoc position" as the subject of the email). Documents requested: 1) a letter of intent stating the candidate motivations and why he/she qualify for the position; 2) a short version of Curriculum Vitae containing a list of publications and previous professional experiences; 3) Two letters of recommendation from previous mentors/supervisors of the applicant should be sent to the same email address. Candidates meeting the requirements will be contacted and interviewed (in-person or via Skype).