

# Liesbeth Frias

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CONTACT INFORMATION	Department of Cellular & Molecular Biology Primate Research Institute, Kyoto University 41-2, Kanrin, Inuyama, Aichi 484-8506 Japan E-mail: frias.liesbeth.48w@st.kyoto-u.ac.jp	
INTERESTS	Disease ecology, molecular epidemiology, wildlife disease, cross-species transmission	
EDUCATION	<b>Primate Research Institute, Kyoto University</b> Inuyama, JAPAN D. Sc. Primatology, Graduate School of Science Topic: Host-Parasite Systems Dynamics in Human-Modified Habitats Advisors: Andrew MacIntosh & Munehiro Okamoto	2015 –
	<b>National School of Public Health, Oswaldo Cruz Institute</b> Rio de Janeiro, BRAZIL M. Sc. Epidemiology in Public Health Title: Intestinal protozoa in archaeological remains Advisors: Adauto Jose Goncalves de Araujo & Daniela Leles	2011-2013
	<b>Faculty of Social Sciences, University of Chile</b> Santiago, CHILE B. Sc. Physical Anthropology Title: Ancestry versus selection, infection with <i>Helicobacter pylori</i> in Chilean population Advisors: Sergio Flores & Mauricio Moraga	2005-2010
LAB EXPERIENCE	<ul style="list-style-type: none"> <li>• Kyoto University Primate Research Institute (Inuyama, Japan) Molecular parasitology. Supervisor: Munehiro Okamoto</li> <li>• Fluminense Federal University (Rio de Janeiro, Brazil) Molecular paleoparasitology. Supervisor: Daniela Leles</li> <li>• Max Planck Institute for Evolutionary Anthropology (Leipzig, Germany) Evolutionary genetics. Supervisor: Mark Stoneking</li> <li>• Faculty of Medicine, University of Chile (Santiago, Chile) Ancient DNA. Supervisor: Mauricio Moraga</li> </ul>	2014 – 2011-2013 2010 2009-2010
FIELDWORK	<ul style="list-style-type: none"> <li>• Sabah (Malaysian Borneo). Sample collection from <i>Macaca fascicularis</i>, <i>M. nemestrina</i>, <i>Nasalis larvatus</i>, <i>Trachypithecus cristatus</i>, <i>Pongo pygmaeus</i></li> <li>• Yakushima Field Science Course (Japan). Sample collection from <i>Macaca fuscata</i> and <i>Cervus nippon</i></li> <li>• Koshima Field Science Course (Japan). Behavioural data collection of <i>Macaca fuscata</i></li> <li>• International Training Program on Terrestrial &amp; Aquatic Wildlife &amp; Primate Conservation (Sri Lanka)</li> <li>• Ancient DNA sample collection at the Igreja de Sao Jorge (Rio de Janeiro, Brazil)</li> <li>• Belgian archaeological expedition to Ahu Te Niu (Rapa Nui, Chile)</li> </ul>	2014-2016 2015-2016 2015 2015 2013 2008

- COMPLEMENTARY EDUCATION
- EMBO Practical Course on Phylogenetics in the -omics era. Peruvian Amazon Research Institute (Iquitos, Peru) 2016
  - EMBO Practical Course on Computational Biology: from Genomes to Systems. Okinawa Institute of Science and Technology (Okinawa, Japan) 2015
  - Summer School of Primate Parasitology. University of Veterinary and Pharmaceutical Sciences (Brno, Czech Republic) 2014
  - International Course of Molecular Epidemiology in Emerging Infectious and Parasitic Diseases. Centro de Pesquisas Goncalo Moniz-FIOCRUZ, (Bahia, Brazil) 2011
  - Interdisciplinary studies: HIV/AIDS & Globalization. George Washington University (DC, United States) 2006
- TEACHING EXPERIENCE
- Teaching Assistant: Yakushima Field Science Course (Kyoto University) 2016
  - Teaching Assistant: Genome Science Course (Kyoto University) 2014-2016
  - Lecturer: Infectious Disease Epidemiology (Pontifical Catholic University of Chile) 2012, 2014
  - Teaching Assistant: Principles of Paleopathology (University of Chile) 2009
  - Teaching Assistant: Forensic Anthropology (University of Chile) 2008
  - Teaching Assistant: Paleopathology (University of Chile) 2008
- SCHOLARSHIPS
- Leading Program in Primatology and Wildlife Science, Kyoto University 2015-2018
  - Monbukagakusho scholarship, Ministry of Education, Culture, Sports, Science and Technology (MEXT) 2015-2018
  - Programa de Estudiantes-Convenio de Pos-Graduacao (PEC-PG) 2012-2013
- PUBLICATIONS
- Journal Articles**
- Frias L, Leles D, Araujo A (2013). Protozoa studies in ancient remains-A review. *Mem Inst Oswaldo Cruz* 108 (1): 1-12.
- Book Chapters**
- MacIntosh A & **Frias L**. Coevolution of hosts and parasites. In: A Fuentes (ed.) *The International Encyclopedia of Primatology*, Wiley [*accepted*]
  - **Frias L**, Silva VL, Brener B, Sudre AP, Araujo A, Leles D. Quando o estabelecido em modelos experimentais nao se reproduz com o mesmo sucesso no material arqueologico: parasitas difceis de trabalhar, o exemplo do protozoario intestinal *Giardia duodenalis*. In: *Guia pratico. Protocolos para estudo de doencas infecto-parasitarias em amostras de acervo e colecoes*. Editora Albatroz, Rio de Janeiro. 54 pp. 2016
  - **Frias L** (2010). Hablan los huesos: lo que estos nos pueden decir sobre la salud y enfermedad en Museo del Desierto-CONAF (Coquimbo). In: *Tradiciones de tierra y mar: antiguos pescadores, mariscadores y cazadores del borde costero del semiarido*. Fuentes, Biskupovic, Castelleti, Retamales, editors. Andros Impresores, Santiago. Pp. 107-128.
- Published Proceedings**
- **Frias L**, Fuentes F, Biskupovic M, Retamales MP, Contreras C (2010). Conflicto interpersonal en las interacciones de costa-interior. El caso de Museo del Desierto-CONAF (Region Coquimbo, Chile). XVII Congreso Nacional de Arqueologia Argentina, Mendoza (Argentina).
  - Fuentes F, Biskupovic M, **Frias L**, Retamales MP, Contreras C (2010). Cazadores-recolectores del holoceno medio y tardio en el extremo septentrional del semiarido de la Region de Coquimbo, Chile. XVII Congreso Nacional de Arqueologia Argentina, Mendoza (Argentina).

## Conference Presentations

\* *Best presentation award*

\*\* *Poster presentation*

- **Frias L**, Okamoto M, MacIntosh A (2016). Parasite sharing as a preliminary indicator of multispecies connectivity. 12th Conference of the European Wildlife Disease Association. Berlin, Germany.
- **Frias L**, Okamoto M, MacIntosh A (2016). Towards a primate parasite community ecology: parasite sharing in sympatric Bornean primates. Joint Meeting of the International Primatological Society and the American Society of Primatologists. Chicago, USA.
- **Frias L**, Okamoto M, MacIntosh A (2016). Gastrointestinal parasite sharing in multi-host primate communities. 13th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases. Antwerp, Belgium.
- **Frias L\***, Okamoto M, MacIntosh A (2016). Parasite sharing in sympatric Bornean primates. 5th International Symposium on Primatology and Wildlife Science. Inuyama, Japan.
- **Frias L**, Okamoto M, MacIntosh A (2015). A community approach to host-parasite systems in fragmented habitats. IV International Workshop on Tropical Biodiversity and Conservation. Penang, Malaysia.
- **Frias L**, Okamoto M, MacIntosh A (2015). Host-parasite system dynamics in human-modified habitats. 4th International Seminar on Biodiversity and Evolution: Molecular Studies for Wildlife Science. Kyoto, Japan.
- **Frias L**, Araujo A, Leles D (2014). *Giardia duodenalis* in faunal remains. Primate Parasitology: Development, Methods and Future. Brno, Czech Republic.
- **Frias L\*\***, Araujo A, Silva V, Brener B, Sudre A, Leles D (2013). On the importance of experimental models in paleoparasitology: a case study on giardiasis. XXIII Brazilian Congress of Parasitology and III Parasitology Meeting of Mercosur. Florianopolis, Brazil.
- **Frias L\*\***, Araujo A, Leles D (2013). Zoonotic genotype A of *Giardia duodenalis* in archaeological human remains. 8th World Congress on Mummy Studies, Rio de Janeiro (Brazil)
- **Frias L**, Silva V, Sudre A, Brener B, Leles D, Araujo A (2012). Immunoenzymatic detection of *Giardia duodenalis* in ancient remains. XVIII International Congress for Tropical Medicine and Malaria, XLVIII Congress of the Brazilian Society for Tropical Medicine and III Latin American Congress on Travel Medicine, Rio de Janeiro (Brazil).
- **Frias L\*\***, Flores S, Moraga M (2010). Origen de la infección con *Helicobacter pylori* en población chilena actual. XI Congreso Asociación Latinoamericana de Antropología Biológica, ALAB, Bogotá (Colombia).
- **Frias L\*\***, (2009). *Helicobacter pylori* before Columbus. III Paleopathology Meeting in South America. Necochea, Argentina.