

Adelaide NIEGUITSILO

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Molecular and Cellular Biology – Microbiology – Mycology - Parasitology - Immunology

TRAINING

2008 PhD in Cellular and Molecular Biology, Université de Paris 12, France

2004 Degree in Molecular and Integrative Biology, Université de Versailles Saint Quentin, France

2003 Degree in Marine Sciences, Université de Bretagne Occidentale, France

PROFESSIONAL EXPERIENCE

- Aug 2018 / Fev 2019: University of Michigan African Presidential Scholars (UMAPS) program, USA

- Since June 2016: Research Professor in Parasitology and Mycology: University of Sciences and Technics of Masuku, Gabon

- Oct 2012 / Jul 2014: National Museum of Natural History (Post-Doctoral), France

- Sept 2010 / Sept 2012: CNRS UMR 5554 Montpellier / National Museum of Natural History (Post-Doctoral), France

- Jul 2010 / May 2010: National Veterinary School of Alfort (Research Engineer), France - Sept 2009 / Aug 2008: National Veterinary School of Alfort (Post-Doctoral), France

- Jun 2004/ Oct 2008: Thales Security Systems (engineer) (Division of Security Solutions & Services), France

SKILLS

- Detection of microorganisms in drinking and waste water (microscopy and molecular biology methods)

- Exploitation of transcriptomic data: interpretation of computer data and computer software (BioLayout; Ingenuity Pathway Analysis (IPA))

- Microbiology: Methods conventional macroscopic and microscopic identification (Culture)

- Molecular biology: DNA extraction and purification (pure culture and environmental products); Polymerase Chain Reaction (PCR) Temporal Temperature Gel Electrophoresis (TTGE) Denaturing High Performance Liquid Chromatography (D-HPLC) quantitative PCR; Variable Number Tandem Repeat (VNTR), restriction fragment length polymorphism (RFLP)
- Biochemical techniques: extraction techniques (liquid / solid phase and liquid) colorimetric assay High Performance Liquid Chromatography (HPLC) Low pressure chromatography
- Cell Biology: Culture of zygotes (marine macroalgae) bacteria, protozoa flow cytometry
- Optical and confocal microscopy, spectrophotometry (Nanotrap)
- Parasitology: Study of a worm (*Litomosoides sigmodontis*) and vector (*Ornithonyssus bacoti*)
- Immunology: Detection of inflammatory chemokines by technical Enzyme-Linked Immunosorbent Assay (ELISA)
- Proteomics: Extraction of proteins, Western blotting, two-dimensional electrophoresis of proteins - Handling of animals: mice, gerbils, nematodes (worms) and arthropods (mites)

ARTICLES

- **Nieguitsila A**, Deville M, Halos L, Taoufik J, Berthelemy M, Chermette R, Latouche S, Arné, P, Guillot *Evaluation of fungal aerosols using temporal temperature gradient electrophoresis (TTGE) and comparison with culture. Journal of Microbiological Methods*, 2007
- Krief S, Vermeulen B, Kasenene J, **Nieguitsila A**, Berthelemy M, L'Hostis M, Bain O, Guillot J. *Nodular worm infection in wild chimpanzees in Western Uganda: a risk for human health? Oesophagostomum infection in wild chimpanzees. Public Library of Science (PloS) Neglected and Tropical Diseases*, 2010
- **Nieguitsila A**, Goldenberg O, Deville M, Arné P, Benoît-Valièrgue H, Chermette R, Latouche- Cottenot S, Pissard S, Guillot J. *Molecular monitoring of fungal communities in air samples by denaturing high performance liquid chromatography (D-HPLC). Journal of Applied Microbiology*, 2010
- Thierry S, Arné P, Alanio A, Deville M, De Bruin B, **Nieguitsila A**, Pourcel C, Laroucau K, Chermette R, Botterel F, Bretagne S, Guillot J. *Multilocus variable-number tandem repeat analysis for molecular typing of Aspergillus fumigatus. BMC Microbiology*, 2010
- **Nieguitsila A**, Arné P, Durand B, Haddad N, Deville M, Benoît-Valièrgue H, Chermette R, Cottenot-Latouche S, Guillot J. *Relative efficiencies of two air sampling methods and three culture conditions for the assessment of airborne culturable fungi in a poultry farmhouse in France. Environmental Research*, 2011
- Arné P, Thierry S, Wang D, Deville M, Le Loc'h G, Desoutter A, Féménia F, **Nieguitsila A**, Huang W, Chermette R, Guillot J. *Aspergillus fumigatus in Poultry International Journal of Microbiology*, 2011

- Bouchery T, Lefoulon E, Karadjian G, **Nieguitsila A**, Martin C. *The symbiotic role of Wolbachia in Onchocercidae and its impact on filariasis*. **Clinical Microbiological Infection**. 2013
- **Nieguitsila A**, Frutos R, Moulia C, Lhermitte-Vallarino N, Bain O, Gavotte L, Martin C. *Fitness cost of Litomosoides sigmodontis filarial infection in mite vectors; implications of infected haematophagous arthropod excretory products in host-vector interactions* **Biomedical Res International**. 2013
- Pionnier N, Brotin E, Karadjian G, Hemon P, Gaudin-Nomé F, Vallarino-Lhermitte N, **Nieguitsila A**, Fercoq F, Aknin ML, Marin-Esteban V, Chollet-Martin S, Schlecht-Louf G, Bachelerie F, Martin C. *Neutropenic Mice Provide Insight into the Role of Skin-Infiltrating Neutrophils in the Host Protective Immunity against Filarial Infective Larvae* **Public Library of Science (PloS) Neglected and Tropical Diseases**, 2016
- Karadjian G, Fercoq F, Pionnier N, Vallarino-Lhermitte N, Lefoulon E, **Nieguitsila A**, Specht S, Carlin LM, Martin C. *Migratory phase of Litomosoides sigmodontis filarial infective larvae is associated with pathology and transient increase of S100A9 expressing neutrophils in the lung*, **Public Library of Science (PloS) Neglected and Tropical Diseases**, 2017

COMMUNICATIONS

- Vedrin M., Nieguitsila A, Alabi A. S., Hardin R., Raskin L. Establishing coordinated water quality monitoring across natural and engineered water systems in Lambarene, Gabon, Sustainability & Development Conference (Oct 11-14, 20019), University of Michigan, Ann Arbor, Michigan, USA (Oral)
- Vedrin M., Nieguitsila A, Alabi A. S., Hardin R., Raskin L. Establishing coordinated water quality monitoring across natural and engineered water systems in Lambarene, Gabon, STEM-AFRICA: STEM-V Conference 2019 (Oct 18-20, 20019), University of Michigan, Ann Arbor, Michigan, USA (Oral)
- Nieguitsila A, Gavotte L., Fructos R., Moulia C., Lhermitte-Vallarino N., Bain O., Martin C. Etude du modèle filaire *Litomosoides sigmodontis* (Onchocercidea) au stade L3 dans son hôte intermédiaire *Ornithonyssus bacoti* (acarien de la famille de Macronyssidea). Huitième réunion du groupe de travail "Tiques et maladies à tiques" au sein du "Réseau écologie des interactions durables (REID)" novembre, 2012 Clermont Ferrand, France. (Oral)
- Nieguitsila A, Gavotte L., Fructos R., Moulia C., Lhermitte-Vallarino N., Bain O., Martin C. Consequences of filarial infection on vector biology. Réunion annuelle du réseau écologie des interactions durables (REID), Fév. 2012, Rennes, France (Oral)
- Bex V., Barral S., Nieguitsila A, Guillot J., Choukri F., Bergeron V., Moularat S. Measurement Of Indoor Mould Exposure: Development Of A Global Approach Associating Quantitative And Qualitative Tools From Long Duration Air Samplings. Indoor Air, Juin, 2011, Texas, USA (Poster)

- Guillot J., Vermeulen B., Lafosse S., Chauffour S., Cibot M., Narat V., Masi S., Nieguitsila A., Snounu G., Bain O., Krief S. Les nématodes du genre *Oesophagostomum*. Un risque émergent pour l'Homme et les grands singes en Afrique ? Académie Nationale de Médecine, Novembre 2011, Paris, France (Oral)

LANGUAGE SKILLS

English; Gabonese dialect; Spanish: basic knowledge

EXTRA PROFESSIONAL ACTIVITIES

- Social activities: Volunteer for 7 years in France (les petits frères des pauvres): Support for the elderly
- Sports: Running (10 to 50 km) and Handball.