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### **SCIENTIFIC EXPERIENCE:**

- 2005 / 2008: **PhD** program, research in the **IRD / CVVD** laboratory at the Mahidol University Faculty of Science (Center for Vector and Vector-borne Diseases) and in the [biohazard emergency unit \(CIBU\) of the Pasteur Institute of Paris](#).  
Domains of interest : Virology and implication of domestic and wild **mammals (Chiroptera and Carnivora orders)** in the **emergence and evolution** of human **pathogens**, focusing on viruses carried by bats in South-East Asia such as *Coronavirus (SARS-CoV)*, *Flavivirus*, *Lyssavirus* and *Hendra / Nipahvirus*.
- 2004: **Master2** (DEA : **Systematic and Phylogeny**, Paris MNHN) research hosted by the [UMR BIPAR](#) (Molecular Biology and Immunology of Parasites and fungi) of the Alfort National Veterinary School (ENVA).  
Subject: **Phylogeny and Co-evolution of *Pneumocystis* and their mammalian hosts**. In the laboratory of Pr. **J. Guillot**, ENVA.
- 2003: Settlements study in the Mount St Michel Bay, **dynamic of populations** of *Orchestia* spp. (Crustacea : Amphipoda), contribution to the organic matter degradation and biology, [UMR 6553 ECOBIO "Ecosystems, Biodiversity and Evolution"](#) of RENNES 1 University.
- 2003: Study of physiological processes induced by adaptation of *Elytrigia eatherica*, at the saline's conditions of the salted meadow. [UMR 6553 ECOBIO](#).
- 2003: **Fish settlement** study of a Polder reconnected with the sea in [UMR 6553 ECOBIO](#) Rennes 1.
- 2003: Adaptation of the Coleoptera *Alphytobius diaperinus* to low temperatures, [UMR 6553 ECOBIO](#), Rennes 1.
- 2002: Member of a team in charge of an **anthropic** study on Port-cros and Porquerolles islands ordered by the Port-cros National Park and managed by **L. Brigand**, Brest West Brittany University Pr.: [Géomer Unit, UMR 6554 \(UBO\)](#) / Marine European Academic Institute ([IUEM](#)).
- 2002: **Cormorants diet and impact** of these birds on **fish populations**, by **rejected balls** examination and **otoliths** study, in the [UMR 6553 ECOBIO](#) in RENNES1 University.

**FORMATION:**

- 2005: **Biology thesis**, PhD. Doctoral school: **Diversity of Life**, [Paris National Museum of Natural History](#); Dpt [Systematic and Evolution](#), [UMR MNHN/CNRS 5202, OSEB](#) (Origin Structure and Evolution of Biodiversity).
- 2004: **Phylogeny and Systematic Postgraduate certificate** (prior to doctoral studies - DEA) within the **Paris National Museum of Natural History** – (Muséum National d'Histoire Naturelle de PARIS – MNHN).
- 2003: **Master's degree** (Maîtrise) on **Ecosystems and Populations Biology** in [University Rennes 1](#) (particularly: statistics, ecosystems functioning and communities interaction, parasitology, modelling, adaptations to environmental conditions, eco-ethology).
- 2002: **Biology Degree: Licence of Organisms and Populations Biology** at the [University of RENNES 1](#) (Biochemistry, structure and function of the biological molecules, genetic, cellular biology; Specializations: **phylogeny, zoology, animal functions, evolution**, biological bases of **behaviours regulation** and relations between organisms.).
- 2002: **Marine biology** formation within the [CEMPAMA](#) **rocky and silt-sandy mediums fauna study**, in the intertidal zone. (**Zoology, systematic, ecology**.)
- 2001: **University Diploma** (2 years) : Deug of **Life Sciences, Biology**; within **LORIENT Southern Brittany University**.
- 2001: **Marine biology** training course in **Baïlleron Marine Biology Station** in Morbihan gulf (Brittany, France). Benthic and pelagic **fauna study, plankton study** and **abiotic factors impact** into the gulf.

**CONFERENCES:**

**Bats and viruses**

**Ar Gouilh M** and Puechmaille S.

*XIth European Bat Research Symposium, Cluj-Napoca, Romania, 18th-22nd August 2008.*

**Bat-borne viral zoonoses and emergence - features and tools**

**Ar Gouilh M**

*Prince of Songkla University, Hat-Yai, Thailand, 12th March 2008.*

**Bats: Host, Vector and Reservoir of Emerging Viral Diseases**

*International Meeting on Emerging Diseases and Surveillance (IMED), Vienna, Austria, 2007*

J.P. Gonzalez, **M. Ar Gouilh**, X. Pourrut, E. Leroy

**Bat cell culture, a new tool for Virology or the connection between lab work and field observations in diseases emergence topics.**

**Meriadeg Ar Gouilh**, Jean Claude Manuguerra & J. Jean Paul Gonzalez

*XIV International Bat Research Conference & 37th NASBR, Mérida, Yucatán, Mexico, 19th-*

23rd August 2007.

**Unveiling fundamentals of bat borne viral zoonoses emergence: SARS, Ebola and Nipah examples.**

**Meriadeg Ar Gouilh**, Eric Leroy & J. Jean Paul Gonzalez

*XIV International Bat Research Conference & 37th NASBR, Mérida, Yucatán, Mexico, 19th-23rd August 2007.*

***PUBLICATIONS:***

**Population size, distribution, threats and conservation status of two endangered bat species: *Craseonycteris thonglongyai* and *Hipposideros turpis***

Puechmaille S, Soisook P, Yokubol M, Piyapan P, **Ar Gouilh M**, Khin Mie Mie, Khin Khin Kyaw, Mackie I, Bumrungsri S, Dejtardol A, Tin Nwe, Si Si Hla Bu, Satasook C, Bates P and Teeling E

*Endangered Species Research (in press).*

**Characterization and multiplex genotyping of 16 polymorphic microsatellite loci in the endangered bumblebee-bat, *Craseonycteris thonglongyai* (Chiroptera: Craseonycteridae)**

Puechmaille S, Yokubol M, Piyapan P, **Ar Gouilh M**, Khin Mie Mie, Bates P, Satasook C, Tin Nwe, Si Si Hla Bu, Mackie I and Teeling E

*Conservation Genetics (in press).*

[doi:10.1007/s10592-008-9691-1]

**Change in Japanese encephalitis virus distribution, Thailand.**

Nitatpattana N, Dubot-Pérès A, **Gouilh M A**, Souris M, Barbazan P, Yoksan S, de Lamballerie X, Gonzalez JP.

*Emerg Infect Dis.* 2008 Nov;14(11):1762-5.

PMID: 18976565 [PubMed - in process]

**Bat-Borne Viral Diseases**

Jean Paul Gonzalez, **Meriadeg Ar Gouilh**, Jean-Marc Reynes and Eric Leroy

Chapter 8 in Carol J. Pierce Colfer and Eckhard Kleinau, eds. Human Health and Forests. A Global Overview of Issues, Practice and Policy. 2008.

**Fundamentals, domains and diffusion of disease emergence : tools and strategies for a new paradigm.**

Gonzalez Jean-Paul, Barbazan Philippe, Baillon F., Capelle J., Chevallier D., Cornet Jean-Paul, Fournet Florence, Herbreteau Vincent, Hugot Jean-Pierre, **Le Gouilh M.**, Leroy Eric, Mondet Bernard, Nitatpattana N., Rican S., Salem Gérard, Tuntrapasarat W., Souris Marc. In : Tibayrenc Michel (ed.). Encyclopedia of infectious diseases : modern methodologies. Hoboken : J. Wiley, 2007, p. 525-568.