

## Damien Baudiffier

Nationality: French

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## PhD in ecotoxicology, looking for a position in a laboratory of environmental toxicology

### Education

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2008/2012 **PhD - INERIS** (October 2012) “National Institute of Industrial Environment and Risks” (Verneuil-en-Halatte, France) under the supervision of François Brion and Alexis Fostier. Subject: “Disturbance Patterns of Testicular Steroidogenesis and Spermatogenesis in Zebrafish (*Danio rerio*) by Azole Fungicides”, *obtained with honours*:

- ✓ developed skills in molecular biology, biochemistry and exposology;
- ✓ acquired skills in cell culture, analytical chemistry (Solid Phase Extraction, HPLC), reproductive toxicology, histology and regulatory ecotoxicology;
- ✓ project management;
- ✓ participated in international congresses (SETAC 2011 and 2012).

2006/2008 **Masters degree in Cell Biology and Development - Ecole Normale Supérieure** (Paris, France, <http://www.ens.fr/?lang=en>) and a Master's degree (2<sup>nd</sup> year only) in Environmental Toxicology – Paris 7 University Denis Diderot (Paris, France), *obtained with honours* (class rank: 2/13):

- ✓ development, physiology, molecular and cell biology, signalling pathways, stress and ethics (Ecole Normale Supérieure);
- ✓ xenobiotics mechanism of action and route of entry, reproductive toxicology, food toxicology, environmental epidemiology and risk assessment (Paris 7).

2005/2006 Admitted to **Ecole Normale Supérieure** (Paris, France) to complete a Bachelor's degree in Biology, after being selected on school records. Ecole Normale Supérieure is a “Grande Ecole” (a leading institution of higher education) which awards a title equivalent to master's degree. Admission is highly selective and the degree awarded prestigious, *obtained with honours*:

- ✓ general biology, bioinformatic, biostatistic, organic chemistry.

2003/2005 Admitted to DEUG, equivalent to a **Two-Year University Diploma**, in Biology - University of Poitiers (Poitiers, France), *obtained with honours*:

- ✓ general biology, chemistry, option: microbiology, cell biology.

## Work experience

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- 2008 Completed a six-month placement as a research engineer, laboratory « ecotoxicology *in vitro* and *in vivo*» - INERIS (Verneuil-en-Halatte, France) under the supervision of François Brion. Subject: “Effect of TCDD, alone or combined with a xeno-estrogen on the expression of estrogen receptors and brain aromatase in zebrafish *Danio rerio*”:
- brought my own skills in molecular biology (Quantitative PCR, electrophoresis);
  - improved my competences in exposology and biochemistry (ELISA).
- 2007 Completed a four-month placement as a research engineer, laboratory « Oceanic and Continental Environments and Paleoenvironments » - Bordeaux 1 University (Bordeaux, France) under the supervision of Patrice Gonzalez. Subject: “Genetic impacts of a polymetallic pollution in *Danio rerio* and *Xenopus laevis* in environmental conditions”:
- acquired skills in molecular biology: RNA extraction, Reverse Transcription, QPCR;
  - biochemistry and heavy metal measurements.
- 2006 Completed a two-month placement as an assistant engineer, laboratory « Ecology and quality of continental hydrosystems» - INRA “National Institute of Agronomic Research” (Rennes, France) under the supervision of Laurent Lagadic. Subject: “Enzymatic system responses of *Lymnaea stagnalis* to a xenobiotic mix (herbicide + another chemical compound)”:
- acquired skills in exposology (mesocosm), biochemistry, ecology and statistics.
- 2005 Completed a short training period in molecular biology (Ecole Normale Supérieure) under the supervision of Chantal Guidi-Rontani
- Subject: “DNA and mRNA extraction/purification of the Raphidophyte *Fibrocapsa japonica* in a toxicity study context”:
- molecular biology, toxicology.

## Other Skills

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- scientific monitoring
- informatics (word, excel, power point, endnote)
- statistics (R, Statistica)
- languages: French (mother tongue), English (fluent)

## Summer jobs

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- 2005 Commercial employee in a supermarket, Super U, France (1 month)  
Shelf-stacking employee in a supermarket, Leader Price, France (1 month)
- 2004 ,2003 Agricultural employee, France (2 month)

## ***Activities***

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- volunteering at the European congress SETAC 2013 (Glasgow)
- volunteering in a concert hall and theater
- Soccer (11 years of practical experience)
- Hiking trail
- Music (guitar)

## ***References***

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François Brion ([francois.brion@ineris.fr](mailto:francois.brion@ineris.fr)), research engineer, INERIS - France

Alexis Fostier ([Alexis.Fostier@rennes.inra.fr](mailto:Alexis.Fostier@rennes.inra.fr)), research director, INRA of Rennes - France

Rüdiger W. Schulz ([r.w.schulz@uu.nl](mailto:r.w.schulz@uu.nl)), professor - The Netherlands - Utrecht University

Laurent Lagadic ([Laurent.Lagadic@rennes.inra.fr](mailto:Laurent.Lagadic@rennes.inra.fr)), research director, INRA of Rennes – France

## ***Publications***

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**Baudiffier D**, Hinfray N, Ravaud C, Creusot N, Chadili E, Porcher JM, Schulz R, Brion F. “Effect of *in vivo* chronic exposure to clotrimazole on zebrafish testis function”, *Environmental Science and Pollution Research*. 2013, Jan 23. PMID: 23340899

Hinfray N, Nobrega RH, Caulier M, **Baudiffier D**, Maillot-Maréchal E, Chadili E, Palluel O, Porcher JM, Schulz R, Brion F “Cyp17 and Cyp19a1 enzymes localization in the adult zebrafish (*Danio rerio*) testis is differentially affected by estradiol”, *J Endocrinol*. 2013, Jan 2. PMID: 23283575

**Baudiffier D**, Hinfray N, Vosges M, Creusot N, Chadili E, Porcher JM, Schulz RW, Brion F. “A critical role of follicle-stimulating hormone (Fsh) in mediating the effect of clotrimazole on testicular steroidogenesis in adult zebrafish” *Toxicology*. 2012, Apr 28. PMID: 22564764

Hinfray N, **Baudiffier D**, Leal MC, Porcher JM, Aït-Aïssa S, Le Gac F, Schulz RW, Brion F. “Characterization of testicular expression of P450 17 $\alpha$ -hydroxylase, 17,20-lyase in zebrafish and its perturbation by the pharmaceutical fungicide clotrimazole”. *Gen Comp Endocrinol*. 2011, Sep 22. PMID: 21963961

Nélieu S, Bonnemoy F, Bonnet JL, Lefeuvre L, **Baudiffier D**, Heydorff M, Quéméneur A, Azam D, Ducrot PH, Lagadic L, Bohatier J, Einhorn J. “Ecotoxicological effects of diuron and chlorotoluron nitrate-induced photodegradation products: monospecific and aquatic mesocosm-integrated studies” *Environ Toxicol Chem*. 2010, Oct 7. PMID: 20931608