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| PERSONAL DETAILS |

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| Aude NOIRET, PhD, DVM  ORCID number: 0000-0001-9929-1845  Date of the CV: 05th september 2022  Contact: [aude.noiret@edu.mnhn.fr](mailto:aude.noiret@edu.mnhn.fr) |  |

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| **EDUCATION** |

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| **01/10/2017-18/12/2020** | **PhD in Ecophysiology**  *Thesis:* **“Sex-specific physiological responses to environmental stress: caloric restriction in Microcebus murinus."**  *Supervisors:* Dr Fabienne Aujard & Dr Jérémy Terrien  Muséum National d’Histoire Naturelle (MNHN), Paris, France [doctorat@mnhn.fr](mailto:doctorat@mnhn.fr) |
| **01/09/2016-30/06/2017** | **M.Sc. Degree « EBE » in Ecology and Evolution.**  *Master's thesis:* **" Seasonality and interactions between metabolism and genomic stability"**  *Supervisor:* Dr Jérémy Terrien  Muséum National d’Histoire Naturelle, Paris, France |
| **01/09/2010-10/12/2015** | **Doctor in Veterinary Medicine (D.V.M)**  *Thesis:* **« Tracking mesenchymal stem cells from human adipose tissue in mice: comparison of immunohistochemistry and in-situ hybridization techniques.”**  *Supervisor:* Prof. Isabelle Raymond-Letron.  Ecole National Vétérinaire de Toulouse (ENVT), Toulouse, France |
| **01/09/2007-06/2010** | **B.Sc. Bachelor's Degree in Ecology and Evolution.**  Université Paul Sabatier, Toulouse, France  University of Birmingham, Birmingham, UK (ERASMUS) |

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| CURRENT EMPLOYMENT | |
| Starting 01/10/2022 | Temporary Teaching and Research Assistants (ATER), Université Lyon 1. *Research:* impact of heat waves on thermoregulation and stress in breeding king penguins, Team E2C, LEHNA laboratory (URM5023).  *Teaching:* Animal biology and Physiology to First- and Second-year undergraduates. *Supervisor:* Antoine Stier, currently part of the E2C Team - soon joining IPHC (URM7178) at Strasbourg University. | |

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| PROFESSIONAL EXPERIENCE | |
| 10/2022 - 10/2023 | ATER (temporary associate to teaching and research), Team E2C, LEHNA Laboratory, Université Lyon 1.  *Supervisor*: Antoine Stier, LEHNA, Team E2C |
| 01/2022 - 06/2022 | Veterinarian (small animal practice), Clinique vétérinaire Saint-Aubin, 31000 Toulouse, France |
| 06/2021 - 11/2021 | Veterinarian (small animal practice), Clinique vétérinaire de Garban, 81990 Puygouzon, France. |
| 10/2017 - 12/2020 | PhD candidate “Sex-specific physiological responses to environmental stress: caloric restriction in Microcebus murinus."*Supervisors:* F Aujard and J Terrien. MNHN, UMR7179, Team BIOADAPT |
| 07/2017 - 09/2017 | Independent veterinary practice, small animal medicine, Clinique Vétérinaire du Pont de Neuilly, Neuilly-sur-Seine. |
| 01/2017 - 06/2017 | M.SC internship « Seasonality and interactions between metabolism and genomic stability »*Supervisor:* J Terrien. MNHN, UMR7179, Team BIOADAPT |
| 01/2016 - 03/2016 | Internship in ecology and modelization, participatory science *Oiseaux des Jardins* « Winter Bird Phenology: garden abundance in relation to agricultural intensity »*Supervisors:* Karine Princé and Jennifer Pierret. MNHN, CESCO |
| 01/2015 - 09/2016 | Independent veterinary replacement, small animal practice, Saint-Quentin, France. |
| 07/2014 | French-German summer school **“biotherapy and regenerative medicine**”, ONIRIS, Nantes |
| 09/2013 - 12/2015 | **Research intern in regenerative medicine**  *Thesis*: " Tracking mesenchymal stem cells from human adipose tissue in mice: comparison of immunohistochemistry and in-situ hybridization techniques.”  *supervisor:* I Raymond-Letron  Pathologic-anatomy laboratory, ENVT- STROMALab, CHU Rangeuil |
| 07/2012 - 08/2012 | Zoo Parc du Reynou, Limoges, France, research internship “**Food intake and diet adaptation of captive animals**”, DVM Franck Haelewyn. |

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| **OTHER ACADEMIC ACHIEVEMENTS** | |
| **03/2018** | Organisation team of the Young Natural History Scientists’ Meeting (YNHM), MNHN, Paris, France |
| **15/03/2019** | Certified training for designing animal experimentation, CNRS. |

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| FUNDINGS AND AWARDS | |
| 05/05/202201/09/2017 | Seal of Excellence for the HOTKING project accredited by the European Commission, HORIZON-MSCA-2021-PF-01-01.Doctoral scholarship from the MNHN, Paris, for 3 years of doctoral research |
| 01/07/2014 | Summer school scholarship for regenerative medicine (ONIRIS, Nantes) |
| 01/09/2010 | National French Competitive Examination to access veterinary studies (B), 3rd place. |

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| **SKILLS** | |
| **Bioanalysis techniques** | *Molecular:* qPCR (Relative Telomere Length), ELISA (CORT, T4)  *Cellular:* cell culture, mitochondrial activity: SeaHorse® technology (Agilent) in-situ immunofluorescence (FISH), immuno-histochemistry  *Whole body:* indirect calorimetry, RMN, Anipill®, DSI® |
| **Animal care and medicine** | *Clinic:* care, handling, medicine, anaesthesia, surgery, pharmacology  *Medical analysis:* blood, urine, coproscopy, cytology  *Imagery:* radiography, echography |
| **Software** | R, Excel, Wave, Image J, Affinity designer, QGIS |
| **Other** | Scientific drawing and graphic illustration (*MNHN PhD course from D. Geffard-Kuriyama*) |

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| RESEARCH SUPERVISION AND LEADERSHIP EXPERIENCE | |
| **2018** | BTEC in bioanalysis (Second year)- Coralie Riffaud (*2 months*) |
| **2018** | Engineer in bioscience (INSA, Last year)- Laura Puch (*3 months*)  *Thesis:* "Évaluation de la variabilité intersexuelle de la réponse au stress environnemental : focus autour de la période de reproduction chez le microcèbe" |
| **2017** | BTEC in bioanalysis (First year)- Coralie Riffaud (*2 months*) |
| **2017** | B.Sc. student- Emilie Rojas (*2 months*)- from personal interest |
| **2017** | M.Sc. student (First year)- Myriam Habiballah (*2 months*) |
|  | *Year 10 pupils: discovery internships of 1 week (research and veterinary medicine)* |
| **2017-2020** | ***Elected representant of PhD students for the scientific committee of the AVIV department, MNHN*** |

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| **TEACHING MERITS** | |
| **01/03/2020**- (covid interruption) | **Teaching assistant**  Tutorial classes at the Palaeontology and comparative anatomy gallery for B.Sc. in biology (1st year)  Name of the class; "Tetrapod evolution"  Université de Versailles (UVSQ), Paris, France |

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| **PUBLICATIONS** |
| **Noiret, Aude**, Laura Puch, Coralie Riffaud, David Costantini, Jean-Francois Riou, Fabienne Aujard, et Jeremy Terrien. « Sex-Specific Response to Caloric Restriction After Reproductive Investment in Microcebus Murinus: An Integrative Approach ». *Frontiers in Physiology* 11 (16 juin 2020): 506. <https://doi.org/10.3389/fphys.2020.00506>.  *This study shows high variability in males and females' specific physiological responses to an acute 2-weeks caloric restriction (60%), with different regulations of metabolism and anti-oxidant machinery, while all individuals entered a state of reproductive quiescence.* |
| **Noiret, Aude**, Caitlin Karanewsky, Fabienne Aujard, Jérémy Terrien, "Why be thrifty? Sex-specific heterothermic patterns in wintering captive Microcebus murinus do not translate into differences in energy balance". *Journal of Experimental Biology* (Under review: JEXBIO/2021/243538.).  BioRxiv: <https://biorxiv.org/cgi/content/short/2021.08.21.457194v1>  *A 6-months body temperature follow-up of 24 lemurs during the whole winter season, which shows different spontaneous phenological expression of torpor depending on sex (GAMM analysis), and sex-specific strategies to adapt chronic, low caloric restriction in a highly seasonal species.* |
| ***In preparation*** |
| **Noiret Aude**, Fabienne Aujard, et Jeremy Terrien. " Sex-specific modulation of the central reproductive system using GnRH agonist in the Grey mouse lemur *Microcebus murinus”.*  *This study shows for the first-time sex-specific central control of reproductive activity, in a highly seasonal species which only mates during a short period of time (grey mouse lemur), using a removable Deslorelin implant.* |
| **Noiret Aude**, Fabienne Aujard, et Jeremy Terrien. " When Grey Mouse Lemurs *Microcebus murinus* sustain little brown bats’ “Thrifty Female Hypothesis”.” |

*We confirmed the thrifty female hypothesis in a new species, exploring the relation between seasonal reproduction and sex-specific response to food shortage: females managed to retain fat stores more efficiently than males, with more efficient and profound torpor bouts.*

Agnès Lewden, Chelsea Ward, **Aude Noiret**, Sandra Avril, Lucie Abolivier, Caroline Gérard, Tracey Hammer, Jean-Patrice Robin, Vincent A. Viblanc, Pierre Bize and Antoine Stier. " Surface temperatures are influenced by handling stress independently of glucocorticoid levels in wild king penguins”.

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| COMMUNICATIONS |
| Noiret Aude, Aujard Fabienne, Terrien Jérémy, SEB, Sevilla, July 2019: « *Sex specific metabolic response to caloric restriction in late summer: is unpredicted stress equally perceived by both sexes in seasonal species?*” |
| Poster presentation at the Zoology meeting in Antwerp, Belgium, December 2018: *« Intersexual heterogeneity of the metabolic response to stress: are males and* *females equal in a challenging environment? »* |
| Poster presentation at EcoPhysiology Congress (CEPA III), Strasbourg, France, November 2017: *« Seasonality and interactions between metabolism and* *genomic stability in the grey mouse lemur. »* |

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| LANGUAGE SKILLS |
| **French:** native |
| **English:** level C2 in understanding and writing (self-evaluation from the Europass assessment grid); levels C1 to C2 for speaking. *Erasmus exchange program in Birmingham (UK) from 2009 to 2010.* |

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| **OTHER LICENCES** |
| Driving licence: B |
| Diving Licence, FFESSM, level 2 |