



Claudie DOUMS

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Evolutionary ecology

Personal information

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Education and employment

Current position: Directrice d'Etudes, classe exceptionnelle, Ecole Pratique des Hautes Etudes (EPHE)

- June 2007 **HDR** - Université Paris VI: "Reproductive strategies in social insect : from colony to individual"
- 1998 - 2013 Maître de Conférence EPHE
- 1997-1998 ETH (Swiss Federal Institute of Technology), Zürich: "Evolutionary ecology of host-parasite interactions in *Bombus* species" in collaboration with P. Schmid-Hempel
- 1996-1997 University of Leicester (UK): "Genetic variability and evolution of mating systems in birds" in collaboration with M. Petrie & T. Burke
- 1995 **PhD in Population Biology and Ecology** - Université Montpellier II (UM II): "Evolution of reproductive system in freshwater gasteropes : the case of phally polymorphism in *Bulinus truncatus*" under the supervision of B. Delay et P. Jarne. Laboratoire Génétique et Environnement, ISEM, UMR 5554
- 1992 **DEA (Master 2) in Evolution and Ecology** - Université Montpellier II (UM II)
- 1991 **Maitrise (Master 1) in Population Biology** - Université Montpellier II (UM II)
- 1990 **Licence in Population Biology** - Université Montpellier II (UM II)
- 1989 **DEUG in Biology** - Université Montpellier II (UM II)
- 1987 **Baccalauréat C** – Narbonne

Graduate students and post-doctoral supervision

The number refer to the publication number in the publication list PDF

Post-doctoral supervision

- 2024 – 2026 Laso-Jadard R. (ANR SOGENANT) – Evolutive history of the social supergene of the ant *Myrmecina graminicola*. Co-supervision avec S. Mona.
- 2025 Lucas Pavlovic (ATER EPHE-PSL) (3 months) – Comparing edge and core population of the ant *Cataglyphis piliscapa*.
- 2023 – 2024 Smith N. (ATER EPHE) – Effect of urbanisation of the transcriptome of urban and forest ants (59)



- 2021 – 2022 Jacquier L. (ATER EPHE, 1 year) – Differential gene expression between urban and rural ant colonies)
- 2016 – 2017 Pierre André Eyer (ATER EPHE, 6 months) & Aurélie Khimoun (CDD EPHE 6 months) – Population genetics, speciation and urbanisation in ants
- 2007 – 2010 Cronin A. (ANR post-doctoral fellowship) – Colony fission in the ant *Cataglyphis cursor* (in collaboration with T. Monnin)
- 2009 – 2010 Sillam-Dussès D. (ATER ParisVI) – Genetic and morphological factors affecting worker allocation during colony fission in the ant *Cataglyphis cursor*
- 2009 Cournault L. (2 months) – Production of diploid males in the ant *Cataglyphis cursor*: a cost of thelytoky
- 2001– 2002 Baudry E. (ATER EPHE, 6 months)– Behavioral and genetic differentiation in the queenless ant *Diacamma*

PhD Thesis

- 2024 – Duquenoy B. Maintien d'un polymorphisme social chez la fourmi *Myrmecina graminicola* : les forces sélectives en jeux. Co-direction avec T. Monnin (33%), M. Molet (33%). ED SU (financement ANR SOGENANT)
- 2023 – Ducancel J. Evolution de deux supergènes détermination un polymorphisme social et de dispersion chez la fourmi *Myrmecina graminicola*. Co-direction avec S. Mona. ED EPHE-PSL (70)
- 2021 – 2024 Taupenot A. Déterminisme génétique, environnemental et social du polymorphisme alaire chez une fourmi. Co-direction avec M. Molet. ED MNHN-SU. (70, 66)
- 2021 – 2024 Gressler M. – Vivre en groupe face à la pollution : tolérance des sociétés de fourmis aux contaminants chimiques. Co-direction avec M. Molet. ED MNHN-SU. (67)
- 2018 – 2021 Jacquier L. – Causes, conséquences et mécanismes de l'adaptation au milieu urbain chez les fourmis. Co-direction avec M. Molet. ED MNHN-SU. (3 ans) (62, 61, 60, 57).
- 2017 – 2020 Honorio R. – Morphological evolution: the importance of social live and phenotypic plasticity on the morphological diversity of ant colonies. co supervision with M. Molet. Doctoral School MNHN-SU
- 2011 – 2014 Helft F. – Sexual selection and mating strategies in the polyandrous ant *Cataglyphis cursor* co supervision with T. Monnin. Doctoral School EPHE (38 months)
- 2009 – 2014 Westhus C. – Division of labor of anti pathogen defences in social insects. International co supervision with S. Cremer (IST, Austria) (~45 months as C. Westhus was in sick leave during more than 16 months)
- 2006 – 2009 Chéron B. – Colonial reproduction by fission in ants and their associated intra colonial conflicts. Co supervision with T. Monnin. Doctoral School Paris 6 (37.5 months)
- 2004 – 2007 Bocher A. – Immune defences and division of labor in ants – co supervision with C. Tirard. Doctoral School Paris 6 (37 months)
- 2002 – 2006 Clemencet J. – Evolution of reproductive strategies in social insect: study of the polyandrous ant *Cataglyphis cursor*. Doctoral School Paris 6 (40 months)

Partial supervision:

- 2003 - 2007 Zink L. – Reproductive strategies and social mutualism in the ponerine ant *Ectatomma tuberculatum*. Supervised by P. Jaisson (LEEC Paris 13). I supervised the genetic part of the PhD (6 months in my lab)



2001 - 2006 **Pearcy M.** – Reproductive strategies in the ant *Cataglyphis cursor*
Supervised by S. Aron (Université libre de Bruxelles). I supervised the genetic part of the PhD (12 months in my lab)

+ supervision of 21 Master 1 and 18 Master 2

Teaching activities

- EPHE (≈ 90h/year), mainly in Biostatistics and Evolutionary Ecology
- UPMC-Paris 6 (≈ 20h/year), mainly in Behavioral Ecology until 2018

Research and administrative responsibilities

Research grants

2024-2028 **ANR SOGENANT** – 529 620 € (in collaboration with S. Mona, T. Monnin, M. Mollet, P. D'Ettore). ANR-23-CE02-0024-01.
PI: C. Doums

2022 **ATM (MNHN) DEGE-AILE** – 9 800 €.
PI: C. Doums

2019 **AP (EPHE)** – 2000 €.
PI: C. Doums

2017 – 2018 **ATM – MNHN : AGATE** – 5300 € (in collaboration with S. Mona and R. Boulay, U. Tours)
PI: C. Doums

2016 – 2017 **ATM – MNHN** 7000€
PI: C. Doums

2015 – 2016 **ATM – MNHN** 6000€
PI: C. Doums

2014 – 2015 **CRAC-ANT** – Convergence de Sorbonne-Universités - 74520€
PI: T. Monnin & N. Loeuille (UPMC) et C. Doums (MNHN)

2013 – 2015 **ARP4 (EPHE) EVOL** - 9000€ / year
PI: C. Doums, S. Montuire

2013 – 2016 **ANR ANTEVO** N°12-JSV7-0003-01: 299765€ (involvement 30 %)
PI: M. Mollet.

2012 **AP1 (EPHE)**: 2200 €
PI : C. Doums

2009 – 2010 **Partenariat Hubert Curien (PHC) PROCOPE** : 6600 €
French coordinator : C. Doums
German coordinator: S. Cremer (University of Regensburg)

2007 – 2010 **ANR FISSION** N°-06-BLAN-0268-01: 200 000€ (involvement 60%)
PI: T. Monnin

2001 – 2004 **ACI** N° 5183 : 88500 €
PI: C. Doums

2001 – 2003 **PICS**: 120000F (involvement 40%)
PI: C. Peeters
Indian Coordinator : Prof. Gadagkar (University of Bangalore)

1998 – 2000 **Programme national "Dynamique de la Biodiversité et Environnement"**
N° 2T00S9 : 70000F
PI: C. Doums



Recent committee members

2025	Recruiting committee for a Professor position at Université de Bourgogne.
2024	Recruiting committee for a Professor position at Sorbonne Université.
2020	Recruiting committee for an assistant professor at the University Paris13 (LEEC), one at the Université of Bourgogne France-Comté, and two at the University of Poitier and for pour two assistant Professor at the Université de Poitier.
2019	Recruiting committee for a Professor position at Lyon1 University.
2017	Recruiting committee for a Professor position at UPMC.
2015 – 2020	External member of the CSS (scientific commission) BPE (Biologie des Populations et Ecosystèmes) of INRAE
2016	President of the HCERES committee for the evaluation of the laboratory Abeille & Environnement (INRAE Avignon)
2008 – 2016	External member of the « conseil de l'école doctorale Environnements-santé » University Bourgogne-Franche Comté
2015	Recruiting committee for a Professor position at l'UPMC.
2014	Recruiting committee for an assitant Professor at Université de Bourgogne

Expertise

- ⇒ 27 PhD Jury
- ⇒ 15 HDR (Habilitation à diriger les recherches) Jury
- ⇒ Grant reviewer for research funding agencies: NSF (USA 2012) ; FNRS (Belgium 2010, 2013, 2015, 2017, 2018, 2024, 2025) ; ISF (Israel, 2012) ; Ecos (France, 2011, 2015); ANR (France 2011, 2017)
- ⇒ Editorial activity:
2020-... : member of the editorial board of Myrmecological News — Open Access Journal (IF 2.6)

Conference organisation

- ⇒ 2017: national congress of the French section of the International Union of the Studies of Social Insects in Paris MNHN
- ⇒ 2011: national congress of the French section of the International Union of the Studies of Social Insects in Banyuls Sur Mer

Administrative responsibilities

- ⇒ Head of the department Sciences de la Vie et de la Terre de l'EPHE – PSL from 2022
- ⇒ Vice-président Education and student life of EPHE – PSL from 2018 – 2022
- ⇒ Responsible of the specific Diplôme EPHE – PSL (equivalent to Master 2): 2014 – 2018
- ⇒ Elective functions at EPHE – PSL : « Conseil scientifique », « Commission des enseignements et de la vie étudiante » : 2014 – 2018
- ⇒ Leader of the team 'Evolution des Sociétés Animales', UMR 7625: 2009 – 2013
- ⇒ Treasurer of the French section of the International Union for the study of social insects: 2012 – 2015

Awards and honours

2017 : Chevalier dans l'ordre des Palmes académiques
2021 : Chevalier dans l'ordre National du Mérite