Dr. Anne DUPLOUY

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**Education**­ **and Degrees\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

11.2019. *Docent* in Biology, Lund University, Sweden

09.2015. *Docent* in Eco-Evolutionary Biology, University of Helsinki, Finland

08.2010. *Ph.D.*, The University of Queensland, Brisbane, Australia

**Language skills\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

French Fluent – mother tongue

English Fluent – reading and writing

Finnish Basic conversation (level 4 - 2015 - University of Helsinki course levels)

**Current position\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2019-24. PI – Academy of Finland Research Fellow**, University of Helsinki, Finland

 *Symbiosis, Ecology and Evolution, Microbiology, Phylogenomics - 90% research, 10% teaching*

**Previous work experience\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2018-19. PI - Marie-Sklodowska Curie Research Fellow, Lund University, Sweden

 *Symbiosis, Ecology and Evolution, Phylogenetics, Genomics - 100% research*

2017-18. Senior postdoctoral researcher, University of Helsinki, Finland

 *Life-history Evolution, Microbiology – 90% research, 10% teaching*

2013-17.PI -Academy of Finland Postdoc**,** University of Helsinki, Finland

 *Ecology and Evolution, Symbiosis – 90% research, 10% teaching*

2010-13.Postdoctoral researcher, University of Helsinki, Finland

 *Population Ecology and Evolution, Molecular Biology – 90% research, 10% teaching*

2004-07. Research assistant, Gump Research station, French Polynesia, France

 *Fieldwork, Experiments in semi-natural conditions, Molecular Biology - 100% research*

Additional mobility periods

2020. Visiting researcher at Lund University, Sweden (6months)

2014. Visiting researcher at the Portland State University, Oregon, USA (1month)

2013-14. Visiting researcher at the Vienna Medical University, Austria (2x1month)

2009. Visiting student at the University of Lyon1, CNRS, France (3months)

**Personal research funding and grants\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Current funding

2020. Bio-Resilience HILife Seed grant (10,000€, research, PI, 3 Co-PIs)

2019-24. Academy of Finland Research Fellowship (486,000€, research, PI)

Main past grants

2019. FORMAS early Career Researcher Grant (declined) (200,000€, research, PI)

2019. Knut and Alice Wallenberg Foundation (2,000€, teaching)

2018-20. Marie Sklodowska-Curie Individual Fellowship (186,000€, research, PI)

2013-17.Academy of Finland Postdoc Grant (302,000€, research, PI)

2014-17. Erkko Foundation Grant (350,000€, research, 5 PIs)

2016. Ella & Georg Ehrnrooth Foundation Grant (5,000€, conference organization)

2007-15. Research grants and scholarships - The Genetic Society, Sigma Xi, NSF, The University of Queensland, The University of Helsinki, Societas Entomologica, Otto A. Malms Donationfond, EMBO short-term Fellow (total ≈57,000€)

**Research output\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

I have published 30 peer-reviewed publications (and four preprints).

Total number of citations: 1075 and H-index = 16 (source: *Google Scholar*) (Full list provided below)

**Supervision experience\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2019-23. *C. Beldado* - **PhD** - University of Helsinki, Finland (Role: Supervisor)

2019-22 *T. Giovanni* - **PhD** - University of Yaoundé1, Cameroon (Co-supervisor)

2020-21. *U.* *Rezola* & *J. Malmberg* - **Masters** - University of Helsinki (Supervisor)

2020. *M. Englund* - **Bachelor** - University of Helsinki (Supervisor)

2019-20. *C. Martel* & *J. Deng* - **Masters** - Lund University, Sweden (Supervisor)

2018. *I. Bengzon* - **Bachelor** - Lund University (Supervisor)

2013-17. *A. Truitt* – **PhD** - Portland State University, USA (Co-Supervisor)

2017. *M. Lähteenaro* -**Bachelor** - University of Helsinki (Supervisor)

2016. *M. Kohonen -* **Bachelor** - University of Helsinki (Supervisor)

2015. *S. Kadali -* **Master** - University of Helsinki (Co-supervisor)

2021-23. Unknown – **Postdoc** – University of Helsinki, Finland (Adviser)

2020. *D. Blande* – **Postdoc** – University of Helsinki, Finland (Adviser)

2020. *U. Rezola* – **Research Assistant** – University of Helsinki, Finland

**Teaching experience\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2020. Teaching assistant, Evolutionary Biology, University of Helsinki (Master)

2019-20. Lecturer, *Molecular Ecology*, Lund University (Bachelor)

2019. Course coordinator, Insect Symbiosis, University of Yaoundé1, Cameroon (Master/PhD)

2012-17. Lecturer, *Conservation biology,* University of Helsinki (Master)

2014-16. Lecturer, *Molecular Ecology*, University of Helsinki (Master)

2012-13. Course coordinator, *Population biology,* University of Helsinki (Master)

2010-13. Lecturer, *Conservation biology*, University of Helsinki (Master)

2008-10. Tutor, *Field* *Ecology* & *Genetics*, University of Queensland (Undergrad)

Pedagogical competences

2020. International & Collaborative Activity Environment, University of Helsinki (5ECTs)

2019. Open Networked Learning, Lund University, Sweden (10ECTs)

2014-17. Center for Research and Development of Higher Education, University of Helsinki (15ECTs)

**Experience of organising scientific meetings\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Chair/organizer of 5 international *conferences/symposia*

2018. Symposium chair – 8th Bio of Butterflies Conference, Bangalore, India (200 people)

2016. Organizer – 2nd Finnish Molecular Ecology Symposium, Helsinki, Finland (100)

 Organizer – Adaptation to thermal stress seminar, Helsinki, Finland (50)

2014. Symposium chair - 7th Bio of Butterflies Conference, Turku, Finland (200)

2011. Organizer – Adaptation to climate, Workshop, Lammi, Finland (100)

**Other key scientific or academic merits\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Trusted referee work

2021-24. Ecology and Evolutionary Biology steering group member, University of Helsinki

2019-. PhD committee member for 2 PhD students, University of Helsinki, Finland

2020. Trusted examiner for Master degree, University of Helsinki, Finland

2019. Trusted examiner for Master degree, Lund University, Sweden

2019. Trusted expert reviewer - FWF Der Wissenschaftsfonds, Austria

2018. Trusted examiner for Master degree, Griffith University, Australia

2016-18. Trusted expert reviewer - National Research Agency (ANR), France

2018-. Academic editor for *PLoS One, Frontiers in Ecology and Evolution*

2013-. Academic Reviewer ([https://publons.com/author/313439/anne-duplouy#profile](https://publons.com/author/313439/anne-duplouy%22%20%5Cl%20%22profile))

Scientific Presentations

I have participated in over 20 international conferences (mostly talks)

2022. Invited speaker for the XXVIth International Congress of Entomology - Helsinki

I have given 18 invited scientific talks at various international Universities

2020. Swedish University of Agricultural Sciences, Alnarp, Sweden

 International invited talk for LA VIDA, undergraduate seminars, India

 Liverpool University, UK

 University of Helsinki, Finland

2019. University of Basel, Switzerland

 University of Zurich, Switzerland

 University of Aarhus, Denmark

 Lund University, Sweden

2018. Stockholm University, Sweden

 University of Copenhagen, Denmark

2017. Lund University, Sweden

 Reykjavík University, Iceland

2015. University of Montpellier, France

 Stockholm University, Sweden

2014. University of Helsinki, Finland

2013. Medical University of Vienna, Austria

2011. University of Helsinki, Finland

2009. Liverpool University, UK

Science communication and Outreach

2015-20. ‘*Scientists for a day*’ (organizer) (<https://www.biology.lu.se/article/the-kids-were-researchers-for-a-day>); *OEB goes Vappu Shokkelo* (organizer)*; Skype a scientist* (invited); *School of Batman* podcast (invited); *Earth Optimism*, *Letters to a pre-scientist*, *Science goes kindergarten, etc.*

**References\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Dr. Marjo Saastamoinen**

Associate Professor in Evolutionary Ecology

Helsinki Institute of Life Science (HiLIFE)/ Organismal and Evolutionary Biology Research Programme

Faculty of Biological and Environmental Sciences

University of Helsinki

Finland

Email: marjo.saastamoinen@helsinki.fi

Websites:

[http://www.helsinki.fi/life-history-evolution](http://www.helsinki.fi/life-history-evolution%22%20%5Ct%20%22_blank)

<https://www.helsinki.fi/en/researchgroups/research-centre-for-ecological-change>

1. **Prof. Niklas Wahlberg**

Professor in Systematics Biology and Director of museum collection

Department of Biology/Biological Museum

Lund University

Sweden

Email: niklas.wahlberg@biol.lu.se

Websites:

[https://portal.research.lu.se/portal/en/persons/niklas-wahlberg(a69a70ff-3fff-4da8-b13a-9e8982cf63cd).html](https://portal.research.lu.se/portal/en/persons/niklas-wahlberg%28a69a70ff-3fff-4da8-b13a-9e8982cf63cd%29.html)

<http://www.nymphalidae.net/>

**List of publications\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

I have published 30 peer-reviewed publications (and five preprints).

Total number of citations: 1045 and H-index = 16 (source: *Google Scholar*)

Below, articles labeled with “**\***” are articles for which I am the corresponding author.

**Peer-reviewed articles**

30) \***Duplouy A**, Pranter R, Warren-Gash H, Tropek R, Wahlberg N (2020) Towards unravelling *Wolbachia* global exchange: a contribution from the *Bicyclus* and *Mylothris* butterflies in the Afrotropics. *BMC Microbiology* **20**, 319. doi:10.1186/s12866-020-02011-2 (2nd author: MSc student)

29) \***Duplouy A**, Minard G, Saastamoinen M (2020) The gut bacterial community affects immunity but not metabolism in a specialist herbivorous butterfly. *Ecology & Evolution* **10**(16):8755-69. doi:10.1002/ece3.6573

28) \*Miraldo A & **Duplouy A** (2019) High *Wolbachia* strain diversity in a clade of dung beetles endemic to Madagascar. *Frontiers in Ecology and Evolution* **7**:157. doi:10.3389/fevo.2019.00157

27) Shropshire JD, Leigh B, Bordenstein SR, **Duplouy A**, Riegler M, Brownlie JC, Bordenstein SR (2019) Models and nomenclature for cytoplasmic incompatibility: caution over premature conclusions - A response to Beckmann et al. 2019. *Trends in Genetics* **35**(6):397-399. doi:10.1016/j.tig.2019.03.004

26) **\*Duplouy A**, Minard G, Lähteenaro M, Rytteri S, Saastamoinen M (2018) Silk properties and overwinter survival in gregarious butterfly larvae. *Ecology & Evolution* **8**(24):12443-12455. doi: 10.1002/ece3.4595 (3rd author: Bachelor student)

25) **Duplouy A** & Hornett E (2018) Uncovering the hidden players in Lepidoptera biology: The heritable microbial endosymbionts. *Peer-J* **6**:e4629. doi:10.7717/peerj.4629

24) **\*Duplouy A** & Brattström O (2018) *Wolbachia* in the genus *Bicyclus*: a forgotten player. *Microbial Ecology* **75**:255–263. doi:10.1007/s00248-017-1024-9

23) **\*Duplouy A**, Woestmann L, Gallego-ZamoranoJ, Saastamoinen M (2018) Impact of male condition on his spermatophore and consequences for female reproductive performance in the Glanville fritillary butterfly. *Insect Science* **25**(2):284-296*.* doi:10.1111/1744-7917.12424 (3rd author: MSc student)

22) **\*Duplouy A**, Wong SC, Corander J, Lehtonen R, Hanski I (2017) Genetic effects on life-history traits in the Glanville fritillary butterfly. *Peer-J* **5**:e3371. doi:10.7717/peerj.3371

21) Ramage T, Martins-Simoes P, Mialdea G, Allemand R, **Duplouy A**, RousseP, Davies N, Roderick GK, Charlat S (2017) Host diversity in the SymbioCode system: a DNA barcode-based survey of terrestrial arthropods in the Society Islands of French Polynesia. *European Journal of Taxonomy* **272**:1-13. doi:10.5852/ejt.2017.272

20) **\***van Nouhuys S, Kohonen M, **Duplouy A** (2016) *Wolbachia* increases the susceptibility of a parasitoid wasp to hyperparasitism. *The Journal of Experimental Biology* **219**:2984-90. doi:10.1242/jeb.140699 (This work was highlighted in the media: Inside [JEB](http://jeb.biologists.org/content/219/19/2965.1)) (2nd author: Bachelor student)

19) **\*Duplouy A** & Hanski I (2015) Small spermatophore size and reduced female fitness in an isolated butterfly population. *Ecological Entomology* **40**(2):167-174*.* doi:10.1111/een.12172

18) **\*Duplouy A**, Couchoux C, Hanski I, van Nouhuys S (2015) *Wolbachia* infection in a natural parasitoid wasp population. *PLoS One* **10**(8):e0134843. doi:10.1371/journal.pone.0134843

17) Ahola V, Lehtonen R, Somervuo P, Salmela L, Koskinen P, Rastas P, […], **Duplouy A**, […], Goldsmith M, Holm L, Auvinen P, Frilander M, Hanski I (2014) The Glanville fritillary genome retains an ancient karyotype and reveals selective chromosomal fusions in Lepidoptera. *Nature Communications* **5**:4737. doi:10.1038/ncomms5737

16) Sumervuo P, Kvist J, Ikonen S, Auvinen P, Paulin L, Koskinen P, Holm L, Taipale M, **Duplouy A**, Ruokolainen A, Saarnio S, Siren J, Kohonen J, Corander J, Frilander MJ, Ahola V, Hanski I (2014) Transcriptome analysis reveals signature of adaptation to landscape fragmentation. *PLoS One* **9**(7):e101467. doi:10.1371/journal.pone.0101467

15) **Duplouy A**, Iturbe-Ormaetxe I, Beatson SA, Szubert JM, Brownlie JC, McMeniman CJ, McGraw EA, Hurst GDD, Charlat S, O’Neill SL, Woolfit M (2013) Draft genome sequence of the male-killing *Wolbachia* strain *w*Bol1 reveals recent horizontal gene transfers from diverse sources. *BMC Genomics* **14**:20. doi:10.1186/1471-2164-14-20

14) **\*Duplouy A**, Ikonen S, Hanski I (2013) ­Life-history of the Glanville fritillary butterfly in fragmented versus continuous landscapes. *Ecology and Evolution* **3**(16): 5141-5156. doi:10.1002/ece3.885

13) **\*Duplouy A** & Hanski I (2013) Butterfly survival on an isolated island by improved grip. *Biology Letters* **9**(2):20130020. doi:10.1098/rsbl.2013.0020 (This work was highlighted in the media: ScienceNordic news, EarthTimes [news](http://www.earthtimes.org/scitech/butterflies-blown-away-baltic/2286/), Norwegian science [news](http://www.forskning.no/artikler/2013/mars/350131))

12) Mattila AL, **Duplouy A**, Kirjokangas M, Lehtonen R, Hanski I (2012) High genetic load in an old isolated butterfly population. *Proc. Nat. Acad. Sci. USA* **109**(37):e2496-505. doi:10.1073/pnas.1205789109 (3rd author: MSc student)

11) **\***Martinez J & **Duplouy A** (shared first authors), Woolfit M, Vavre F, O’Neill SL, Varaldi J (2012) Influence of the virus *LbFV* and of *Wolbachia* in a host-parasitoid interaction. *PLoS One* **7**(4):e35081. doi:10.1371/journal.pone.0035081

10) Iturbe-Ormatexe I, Woolfit M, Rancès E, **Duplouy A**, O’Neill SL (2011) A simple protocol to obtain highly pure *Wolbachia* endosymbiont DNA for genome sequencing. *Journal of Microbiology Methods* **84**(1):134-136.doi:10.1016/j.mimet.2010.10.019

9) **\*Duplouy A**, Hurst GDD, O’Neill SL, Charlat S (2010) Rapid spread of a male-killing *Wolbachia* in the butterfly *Hypolimnas bolina*. *Journal of Evolutionary Biology* **23**(1): 231-235. doi:10.1111/j.1420-9101.2009.01891.x

8) Charlat S, **Duplouy A**, Hornett EA, Dyson EA, Davies N, Roderick GK, Wedell N, Hurst GDD (2009) The joint evolutionary histories of *Wolbachia* and mitochondria in *Hypolimnas bolina. BMC Evolutionary Biology* **9**:64. doi:10.1186/1471-2148-9-64

7) **\*Duplouy A**, Vermenot C, Davies N, Roderick GK, Hurst GDD, Charlat S (2009) Assessing risks of *Wolbachia* DNA cross-specimens contamination following mass collection and ethanol storage. *Molecular Ecology Resources* **9**:46-50. doi:10.1111/j.1755-0998.2008.02421.x

6) Hornett EA, **Duplouy A**, Davies N, Roderick GK, Wedell N, Hurst GDD, Charlat S (2008) You can’t keep a good parasite down: evolution of a male-killer suppressor uncovers cytoplasmic incompatibility. *Evolution* **62**(5):1258-1263. doi:10.1111/j.1558-5646.2008.00353.x

5) Charlat S, Reuter M, Dyson EA, Hornett EA, **Duplouy A**, Davies N, Roderick GK, Wedell N, Hurst GDD (2007) Male-killing bacteria trigger a cycle of increasing male fatigue and female promiscuity. *Current Biology* **17**:273-277. doi:10.1016/j.cub.2006.11.068

4) Meyer J-Y, **Duplouy A**, Taputuarai R (2007) Population dynamics of the endemic tree *Myrsine longifolia* (Myrsinaceae) in forests of Tahiti (French Polynesia) invaded by *Miconia calvescens* (Melastomataceae) after the introduction of a biocontrol fungal pathogen: first investigations. *Revue Ecologie (Terre Vie)* **62**:17-33 (in French)

3) Charlat S, Engelstädter J, Dyson EA, Hornett EA, **Duplouy A**, Tortosa P, Davies N, Roderick GK, Wedell N, Hurst GDD (2006) Competing selfish genetic elements in the butterfly *Hypolimnas bolina. Current Biology* **16**:2453-2458. doi:10.1016/j.cub.2006.10.062

2) Hornett EA, Charlat S, **Duplouy A**, Davies N, Roderick GK, Wedell N, Hurst GDD (2006) Evolution of male killer suppression in a natural population*.* *PLoS Biology* **4**:e283. doi:10.1371/journal.pbio.0040283

**Book Chapter**

1) **Duplouy A** & O’Neill SL (2010) Male-killing *Wolbachia* in the butterfly *Hypolimnas bolina*. In Pontarotti P (Ed.): Evolutionary Biology - Concepts, Molecular and Morphological Evolution. 1st Edition, XIV, Springer-Verlag Berlin Heidelberg, 363p.

**Preprint**

\* Deng J, Assandri G, Chauhan P, Futahashi R, Galimberti A, Hansson B, Lancaster LT, Takahashi Y, Svensson EI, and **Duplouy A** (PrePrint) Wolbachia-driven selective sweep in a range expanding species. Research Square doi:10.21203/rs.3.rs-150504/v1 (1st author: MSc student)

\* **Duplouy A**, Nair A, Nyman T, and van Nouhuys S (PrePrint) Long-term spatio-temporal genetic structure of an accidental introduction, and the population dynamics of its associated *Wolbachia* symbiont. Authorea doi:10.22541/au.159818268.85495000

Blande D, Smolander O-P, Ahola V, Rastas P, Tanskanen J, Kammonen J, Oostra V, (...), DiLeo MF, **Duplouy A**, Duru IC, (...), Frilander MJ, Auvinen P, Saastaminen M (PrePrint) Improved chromosome level genome assembly of the Glanville fritillary butterfly (*Melitaea cinxia*) based on SMRT Sequencing and linkage map. *BioRxiv* doi:10.1101/2020.11.03.364950

Abroon P, Ashori A, **Duplouy A**, Farahani HK (PrePrint) *Wolbachia* manipulates host pre-imaginal learning in a parasitoid wasp. *BioRxiv* doi:10.1101/825455

Davies SW, Putman HM, Ainsworth T, Baum JK, Bove CB, Crosby SC, Côté IM, **Duplouy A**, Fulweiler RW, Griffin AJ, Hanley TC, Hill T, Humanes A, Mangubhai S, Metaxas A, Parker LM, Rivera HE, Silbiger NJ, Smith NS, Spalding AK, Traylor-Knowles N, Weigel BL, Wright RM, Bates A. (PrePrint) Shifting our value system beyond citations for a more equitable future. *PLoS Biology* doi:10.

**Research monographs**

2010. *Ph.D. thesis –* Ecology and Genomics of a male-killing *Wolbachia*

2007. *M.Sc. thesis* – Liste et synthèse bibliographique des plantes médicinales de Polynésie française(French)