Wen-Juan Ma

Assistant Professor Biology Department | Vrije Universiteit Brussel Pleinlaan 2 1050 Brussels, Belgium wen-juan.ma@vub.be wenjuanma84@gmail.com ORCID: 0000-0003-2585-6406 www.wmalab.com +32 2 629 3416

Education

10.2009-12.2014	Ph.D. Evolutionary Genetics, University of Groningen, The Netherlands
09.2006-07.2009	M.S. Evolutionary Ecology, Summa cum laude
	Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences
09.2002-07.2006	B.S. Biological Science, Summa cum laude
	Nanyang Normal University, China

Academic Employment

01.2023-	Assistant Professor, Biology Department, Vrije Universiteit Brussel, Brussels, Belgium
08.2020-12.2022	Postdoctoral research associate, Department of Molecular Biosciences,
	The University of Kansas, Lawrence, KS, USA
06.2018-07.2020	NIH Postdoctoral research associate, Department of Biology, Amherst College, MA, USA
08.2018-10.2018	Visiting scholar, Department Ecologie Systematics and Evolution,
	Université of Paris-Sud, Orsay, France
03.2018-05.2018	(Informal) visiting scholar, Department of Biology, University of Indiana, IN, USA
08.2014-02.2018	SNSF Postdoctoral fellow, Department of Ecology and Evolution,
	University of Lausanne, Switzerland
08.2014-01.2018	Teaching assistant, Department of Ecology and Evolution
	University of Lausanne, Switzerland
01.2010-01.2014	Graduate teaching assistant, University of Groningen, the Netherlands
07.2009-08.2009	Research associate, Chinese Academy of Science, Xishuangbanna, China
09.2003-08.2005	Undergraduate teaching assistant, Nanyang Normal University, China

Honors, Awards, Fellowships and Grants

Pending	<u>grants</u>	
2025	€653,117	FWO junior research grant (PI)
2024	€650,000	COST – Tree of sex consortium
Grant/Fe	llowship/H	lonors (in total: €1,763,200; \$27,500; ¥12,000)
2025	€250	ESEB conference aid grant
2025	\$2,000	SMBE aid and gender equality grant
2025	€25,500	VUB-CSC joint PhD grant, co-PI with Qi Zhou, Zhejiang University, China
2024	€55,000	ULB-VUB seed grant for joint PhD, co-PI with Jean-François Flot
2023	€500	FWO travel grant
2023-2027	€100,000	VUB startup funding, Vrije Universiteit Brussel, Belgium
2023-2028	€1,499,950	ERC (European Research Council) Starting Grant
05.2022	€500	ESEB2022 conference aid grant
02.2022	\$25,000	K-INBRE Postdoc Awards Year 2022
08.2021	€1,000	ESEB satellite symposium fund, 'The remarkable diversity in the rate and mechanisms of sex chromosome evolution'
05.2018	\$500	Travel grant, Society for the Study of Evolution

06.2016	¥1,000	Team award to fig-fig wasp coevolution, Chinese Academy of Sciences, China
2013	€500	Travel grant, Dutch Uyttenboogaart-Eliasen Foundation
2009-2014	€80,000	PhD Ubbo Emmius faculty fellowship, University of Groningen, The
		Netherlands
2009	¥2,000	Best master thesis award of DiAo, Chinese Academy of Sciences, China
2009	Top 4%	Outstanding Graduate in Xishuangbanna Tropical Botanical Garden, CAS,
		Chinese Academy of Sciences, China
2002-2006	¥4,000	First-Class Departmental Scholarship for 4 years,
		Nanyang Normal University, China
2006	Top 1%	Outstanding Graduate, Nanyang Normal University, China
2004	¥5,000	National Scholarship for Excellent Study (Top 0.1%),
		Nanyang Normal University, China
Grant/fellowship passed interview stage but not funded		
12.2024	€556,984	FWO junior research grant (PI) (top 25%, the runner up for the funding)
09.2019	£725,397	*Royal Society University Research Fellowship, shortlisted. I wrote the
		proposal by myself.
03.2018	€195,455	**Maire-Curie Postdoc fellowship 'Guppy Young Y' was awarded the 'Marie
		Sklodowska-Curie Actions Seal of Excellence'. I wrote the proposal by myself.

^{*}Top 20% of proposals from all science domains (life science, physics, chemistry) were shortlisted.

Publications

Total citations until 06.2025: 845, h-index: 15, i10-index: 17

A full list of my publications and citation statistics is available at Google Scholar: https://scholar.google.com/citations?hl=en&user=D21ZTf0AAAAJ&view_op=list_works&sortby=pubdate ORCID: https://orcid.org/0000-0003-2585-6406

- 31. JAD Vidal, D Charlesworth, **W-J Ma**, Q Zhou, R Utsunomia, AJB Gomes, AB da Silva, F Porto-Foresti, T Liehr, M de Bello Cioffi. (2025) Cytological and preliminary genomic analysis of two Leptodactylus frog species (Anura, Leptodactylidae) with recently evolved large meiotic rings of multiple X and Y sex chromosomes
 - bioRxiv
 - DOI: https://doi.org/10.1101/2025.03.27.645801
- 30. E.A. Lucotte, P Jay, Q Rougemont, L Boyer, A Cornille, A Snick, A Labat, E Chain, M Duhamel, J Gendelman, **W-J Ma**, R K Hayes, M.H. Berlin M.E. Hood, R.C. Rodriguez de la Vega, T Giraud. (2025). Repeated loss of function at HD mating-type genes and of recombination in anther-smut fungi. doi: https://doi.org/10.1038/s41467-025-60222-5
 - In press
 - Nature Communications (IF=14.920, citation=3)
- 29. D Jeffries, C Benvenuto, A Böhne, C Fraisse, S Garcia, P Jay, L Kratochvíl, CE McDonough-Goldstein, A Ruiz-Herrera, CG Sotero-Caio, MA. Wilson, **Tree of Sex Consortium**+, KS Jaron. (2025). The Tree of Sex consortium: A global initiative for studying the evolution of reproduction in eukaryotes
 - In press
 - Journal of Evolutionary Biology
- 28. B. Augstenová[†], **W-J Ma.** (2025). Decoding *Dmrt1*: Insights into vertebrate sex determination and gonadal sex differentiation. arXiv: https://doi.org/10.48550/arXiv.2407.12060
 - In press
 - Journal of Evolutionary Biology (IF=2.441, citation=1)
- 27. P Veltsos, S Shinde[†], **W-J Ma**. (2024). Sex chromosome evolution: the classical paradigm and so much beyond.
 - In press.
 - Encyclopedia of Evolutionary Biology. (citation=1)
- 26. **W-J Ma**, M. Rovatsos. (2022) Sex chromosome evolution: The remarkable diversity in the evolutionary rates and mechanisms.
 - Journal of Evolutionary Biology 35: 1581-1588 (IF=2.441, citation=6)

^{**} The proposal was scored 89.5 right below the cutoff of 92 funded score for that round of funding.

25. **W-J Ma**, K. Brunsell**, E. Knoles^{##}, MM. Schoaib^{##}, RL Unckless (2022). Hoisted with his own petard: how sex-ratio meiotic drive in *Drosophila affinis* creates resistance alleles that limit its spread.

- Journal of Evolutionary Biology 35: 1765-1776 (IF=2.441, citation=5)
- 24. W-J Ma, P Veltsos (2021). The diversity and evolution of sex chromosomes in frogs.
 - Genes 12: 483. (IF=4.096, citation=52)
 - https://doi.org/10.3390/genes12040483
- 23. **W-J Ma**, BA Pannebakker, X Li[#], E Geyverink, SY Anvar, P Veltsos, T Schwander, L van de Zande, LW Beukeboom. (2021). A single QTL with large effect is associated with decay of female functional virginity in an asexual parasitoid wasp.
 - Molecular Ecology 30: 1979-1992. (IF=6.131, citation=14)
 - doi: 10.1111/mec.15863.
- 22. **W-J Ma,** F Carpentier[#], T Giraud, M Hood. (2020). Differential gene expression between fungal mating types is associated with sequence degeneration.
 - Genome Biology and Evolution 12: 234-258. (IF=3.726, citation=14)
 - doi: https://doi.org/10.1093/gbe/evaa028
- 21. **FE Hartmann***, **W-J Ma***. (2020). Digest: Climate plays margical role for homomorphic sex chromosome differentiation in common frogs.
 - Evolution 74: 690-693. (IF=4.201, citation=2)
 - doi: https://onlinelibrary.wiley.com/doi/10.1111/evo.13936
- 20. P Veltsos, N Rodrigues[#], T Studer^{##}, **W-J Ma**, S Sermier^{**}, N Perrin. (2020). No evidence that Y-chromosome differentiation affects male fitness in a Swiss population of common frogs.
 - Journal of Evolutionary Biology 33: 401-409. (IF=2.792, citations=17)
 - doi: https://onlinelibrary.wiley.com/doi/abs/10.1111/jeb.13573
- 19. FE Hartmann, RC Rodríguez de la Vega, P Gladieux, **W-J Ma**, J Antonovics, ME Hood, T Giraud. (2019). Higher gene flow in sex-related chromosomes than in autosomes during fungal divergence.
 - Molecular Biology and Evolution 37: 668-682. (IF=14.797, citations=25)
 - doi: https://doi.org/10.1093/molbev/msz252
- 18. **W-J Ma**, L Santos Del Blanco, JR Pannell. (2019). A new biological species in the *Mercurialis annua* polyploidy complex: functional divergence in inflorescence morphology and hybrid sterility.
 - Annals of Botany 124: 165-178. (IF=4.041, citations=5)
 - doi: https://doi.org/10.1093/aob/mcz058
- 17. **W-J Ma,** R Sermier**, P Veltsos, DJ Parker, N Perrin. (2018). Evolutionary and developmental dynamics of sex-biased gene expression in common frogs with proto-Y chromosomes.
 - Genome Biology 19: 156. (IF=13.214, citation=36)
 - doi: https://doi.org/10.1186/s13059-018-1548-4
- 16. DL Jeffries, G Lavanchy^{##}, R Sermier^{**}, MJ Sredl, I Miura, A Borzée, LN Barrow, D Canestrelli, P-A Crochet, C Dufresnes, J Fu, **W-J Ma**, C Macías Garcia, K Ghali[#], AG Nicieza, RP O'Donnell, N Rodrigues[#], A Romano, Í Martínez-Solano, I Stepanyan, S Zumbach, A Bresfold, N Perrin. (2018). A rapid rate of sexchromosome turnover and non-random transitions in true frogs.
 - Nature Communications 9: 4088. (IF=14.920, citation=196)
 - doi: https://doi.org/10.1038/s41467-018-06517-2
- 15. **W-J Ma**, P Veltsos, MA Toups, N Rodrigues[#], R Sermier^{**}, DL Jeffries, N Perrin. (2018). Tissue specificity and dynamics of sex-biased gene expression in a common frog population with differentiated, yet homomorphic, sex chromosomes.
 - Genes 9: 294. (IF=4.096, citation=28)
 - doi: https://doi.org/10.3390/genes9060294
- 14. N Rodrigues[#], T Studer^{##}, C Dufresnes, **W-J Ma**, P Veltsos, N Perrin. (2017). *Dmrt1* polymorphism and seks chromosome differentiation in *Rana temporaria*.
 - Molecular Ecology 26: 4897-4905. (IF=6.131, citation=36)
 - doi: https://doi.org/10.1111/mec.14222
- 13. **W-J Ma**, T Schwander. (2017). Patterns and mechanisms in instances of endosymbiont-induced parthenogenesis.
 - Journal of Evolutionary Biology 30: 868-888. (IF=2.792, citation=132)
 - doi: https://doi.org/10.1111/jeb.13069
- 12. **W-J Ma,** N Rodrigues[#], R Sermier^{**}, A Brelsford, N Perrin. (2016) *Dmrt1* polymorphism covaries with sex-determination patterns in *Rana temporaria*.
 - Ecology and Evolution 6: 5107-5117. (IF=2.537, citation=29)

- doi: https://doi.org/10.1002/ece3.2209
- 11. W-J Ma, JR Pannell. (2016). Sex determination: separate sexes are a double turnoff in melons.
 - Current Biology 26: R171-R174. (IF=9.193, citation=15)
 - doi: https://doi.org/10.1016/j.cub.2015.12.026
- 10. **W-J Ma,** BA Pannebakker, L van de Zande, T Schwander, B Wertheim, LW Beukeboom. (2015). Diploid males support a two-step mechanism for endosymbiont-induced thelytoky in a parasitoid wasp.
 - BMC Evolutionary Biology 15: 84. (IF=3.027, citation=56)
 - doi: https://doi.org/10.1186/s12862-015-0370-9
- 9. **W-J Ma**, BA Pannebakker, LW Beukeboom, T Schwander, L van de Zande (2014). Genetics of decayed sexual traits in a parasitoid wasp with endosymbiont-induced parthenogenesis.
 - Heredity 113: 424-431. (IF=3.801, citation=20)
 - doi: https://doi.org/10.1038/hdy.2014.43
- 8. **W-J Ma**, F Vavre, LW Beukeboom (2014). Manipulation of arthropod sex determination by endosymbionts: diversity and molecular mechanisms.
 - Sexual Development 8: 59-73. (IF=2.250, citation=70)
 - doi: https://doi.org/10.1159/000357024
- 7. **W-J Ma,** B Kuijper, JG de Boer, L van de Zande, LW Beukeboom, B Wertheim, BA Pannebakker (2013). Absence of complementary sex determination in the parasitoid wasp genus *Asobara* (Hymenoptera: Braconidae).
 - PloS ONE 8: e60458. (IF=2.776, citation=24)
 - doi: https://doi.org/10.1371/journal.pone.0060459
- 6. **W-J Ma**, D-R Yang, Y-Q Peng (2009). Disturbance effects on community structure of *Ficus tinctoria* fig wasp in Xishuangbanna, China: implication for the fig/fig wasp mutualism.
 - Insect Science 16: 417-424. (IF=2.71, citation=8)
 - doi: https://doi.org/10.1111/j.1744-7917.2009.01265.x
- 5. **W-J Ma**, Y-Q Peng, D-R Yang, J-M Guan (2009). Coevolution of reproductive characteristics in three dioecious fig species and their pollinator wasps.
 - Symbiosis 49: 87-94. (IF=2.009, citation=14)
 - doi: https://doi.org/10.1007/s13199-009-0018-x
- 4. **W-J Ma**, F-P Zhang, Y-Q Peng, D-R Yang (2009). Comparison of style length and reproduction success in *Ficus* of different breeding systems.
 - Chinese Journal of Plant Ecology 33: 911-918. (IF=2.541, citation=5)
- 3. **W-J Ma**, Y-Q Peng, D-R Yang (2009). Variation of reproduction success in *Ficus tinctoria* and the implication in fig evolution.
 - **Zoological Research Suppl.**: 139-145.

PhD thesis and thesis chapter

- 2. E Geuverink, M van Leussen, **W-J Ma**, LW Beukeboom, L van de Zande. (2017). Identification, seks-specific splicing and maternal provision of *transformer* and *transformer-2* in arrhenotokous and *Wolbachia*-infected thelytokous *Asobara japonica*. Chapter 6. *Parental and Endosymbiont Effects on Seks Determination in Haplodiploid Wasps-Who is in Control?* **PhD thesis** of E. Geuverink. University of Groningen, The Netherlands.
- 1. **W-J Ma**. 2014. Evolutionary genetics of *Wolbachia*-induced parthenogenesis in the parasitoid *Asobara japonica*: seks determination and sexual decay. **PhD thesis,** University of Groningen, The Netherlands (citation=3)

Invited talks

^{*}member of Tree of Sex consortium.

^{*}Equal contribution.

^{**} Publications include contribution from supervised technicians.

[†] Publications include contribution from supervised postdocs.

[#] Publications include contribution from informally supervised PhD students.

^{##} Publications include contribution from supervised master/undergraduate students.

In total, I have been invited to give talks for 29 departmental seminars, 5 conferences and 1 workshop.

04.2025	Departmental seminar. Institute of Science and Technology Austria, Austria
04.2025	PopGen Vienna seminar. Vienna Grad. School of Population Genetics, Austria
12.2024	Departmental seminar. KU Leuven, Belgium
10.2023	Current Topics in Zoology and Evolution Seminar. University of Basel, CH
10.2023	IB2 Research Day 2023. Interuniversity Institute of Bioinformatics in Brussels, Belgium
05.2023	Evolution & Ecology Seminar. University of Lille, Lille, France
03.3023	Departmental seminar. Université Libre de Bruxelles, Brussels, Belgium
12.2022	Institute seminar. KU Center for Genomics early career researcher seminar. University of
	Kansas, Lawrence KS, USA
07.2022	Departmental seminar. University of Groningen, Groningen, The Netherlands
06.2022	Departmental seminar. University of East Anglia, Norwich, UK
05.2022	Departmental seminar. University of Dublin, Dublin, Ireland
04.2022	Departmental seminar. Vrije Universiteit Brussel, Brussels, Belgium
02.2022	Institute seminar. Earlham Institute, Norwich, UK
02.2022	Institute seminar. The Institute of Functional Genomics of Lyon, Lyon, France
07.2021	Departmental seminar. School of Life Sciences, University of Essex, Colchester, UK
02.2021	Departmental seminar . Department of Biology, Southeast Missouri State University, Cape Girardeau, MO, USA
09.2020	EEB Genetics seminar . Department of Ecology & Evolutionary Biology and Department of
	Molecular Bioscience, University of Kansas, Lawrence, KS, USA
06.2020	Evolutionary Biology Group seminar. Department of Biology, University of Konstanz,
	Konstanz, Germany
02.2020	Departmental seminar . Department of Biology, George Mason University, Fairfax, VA, USA
02.2020	Departmental seminar. Department of Biological Sciences, University of Arkansas, USA
01.2020	Departmental seminar. School of Biological Sciences, Illinois State University, USA
01.2020	Conference speaker. Invited but declined. Symposium 'Emerging frontiers in sex
	chromosome evolution', 9 th World Congress of Herpetology, Dunedin, New Zealand.
01.2020	Conference speaker. 'The International Plant and Animal Genome (PAG) conference',
	'Sex Chromosome and Sex Determination' workshop, San Diego, CA, USA.
08.2019	Departmental seminar. School of Biological Sciences, University of Aberdeen, UK
06.2019	Conference speaker. 'Evolution 2019, Providence, Rhode Island
05.2019	Departmental seminar. Institute of Integrative Biology, University of Liverpool, UK
04.2019	Departmental seminar . Milner Center for Evolution, University of Bath, UK
01.2019	Conference speaker. Invited but declined. 'The International Plant and Animal Genome (PAG) Conference', San Diego, CA, USA.
12.2018	Departmental seminar. Seminar for Department of Biology, Amherst College, MA, USA
09.2018	Departmental seminar. Seminar for Department of Genetic and Ecology Evolution,
	Université Paris-Sud, Orsay, France
06.2016	Departmental seminar. Institutional external seminar, Chinese Academy of Sciences,
	Xishuangbanna, China
08.2015	Conference speaker. 'Nöthiger insect sex determination' workshop, University of Lausanne,
	Lausanne, Switzerland
07.2014	Workshop speaker. 'Evolution of asexual genome' workshop, University of Lausanne,
	Lausanne, Switzerland
10.2013	Departmental seminar. Laboratory of Genetics seminar, Wageningen University, NL
02.2010	Departmental seminar. Lab seminar, Leiden, The Netherlands

Conference presentations

All as first author presentations: talk at 20 international conferences and poster at 11 conferences.

08.2025	Scheduled Talk ESEB 2025, Prague, Czech Republic
07.2025	Scheduled Talk SMBE 2025, Prague, Czech Republic
09.2023	Talk Conferences Jacques-Monod, Sex unfolded: sex, asex, sexes, Roscoff, France

08.2022	Talk ESEB 2022, Prague, Czech Republic
04.2022	Talk 63rd Annual Drosophila Research Conference, San Diego, CA, USA
01.2022	Talk 55 th PopGroup meeting, the Earlham Institute, John Innes Centre, University of East Anglia, UK
06.2021	Talk virtual Evolution meeting, 2021
06.2021	Talk ESEB satellite symposium 2021, 'Genomic signatures and consequences of sex and asexuality'
01.2021	Talk the virtual 54th PopGroup meeting, University of Liverpool, Liverpool, UK
01.2020	Talk PAG XVIII, San Diego, CA, USA
08.2019	Poster ESEB, Turku, Finland
06.2019	Poster Evolution, Providence, USA
06.2019	Talk Evolution 2019, Providence, Rhode Island, USA
08.2018	Poster Joint meeting of ESEB and Evolution, Montpellier, France
08.2017	Poster European Society for Evolutionary Biology, Groningen, The Netherlands
01.2017	Talk PoPGroup meeting, Cambridge, UK
06.2016	Talk Evolution of sex det. Workshop, La Sage, Switzerland
02.2016	Poster Swiss Biology Meeting, Lausanne, Switzerland
12.2015	Talk PopGroup 49 meeting, University of Edinburgh, Edinburgh, Scotland
08.2015	Poster European Society for Evolutionary Biology, Lausanne, Switzerland
07.2014	Talk 'Evolution of asexual genome' workshop, University of Lausanne, Lausanne, Switzerland
08.2013	Poster European Society for Evolutionary Biology, Lisbon, Portugal
06.2013	Talk Insect sex determination workshop, Gif-sur-Yvette, Paris, France
02.2013	Talk Netherlands Annual Ecology meeting, Lunteren, The Netherlands
12.2012	Talk Entomologen Dag, Ede, The Netherlands
12.2011	Talk Entomologen Dag, Ede, the Netherlands
11.2011	Talk NEV herfstvergadering, Groningen, The Netherlands
10.2011	Poster Sixth International Symposium on Molecular Insect Science, Amsterdam, The Netherlands
10.2011	Poster European workshop on sex determination in insects, Amsterdam, The Netherlands
06.2011	Poster Genetics, Epigenetics and Evolution of Sex Chromosomes, Paris, France
11.2010	Talk Meeting of the Insect Parasitoid Special Interest Group of the Royal Entomological Society,
	University of York, York, UK
11.2010	Poster Plant-Insect interaction workshop, Wageningen, The Netherlands
11.2007	Talk Conference of "Biodiversity—Challenges to the New Century", Jinghong, China

Additional training (workshops/conferences, in total 27x)

02.2025	'How AI helps with ERC grant writing', Vrije Universiteit Brussel, Brussels, Belgium
07.2024	Tree of Sex 2.0 workshop, Charles University, Prague, Czech Republic
06.2023	Tree of Sex 2.0 workshop, Sanger Institute, Cambridge, UK
06.2023	PhD Supervisor workshop2, Vrije Universiteit Brussel, Brussels, Belgium
04.2023	PhD Supervisor workshop1, Vrije Universiteit Brussel, Brussels, Belgium
05.2022	1st KU Centre for Genomics Symposium 2022, University of Kansas, USA
12.2021	ADVANCEGeo "DEI" workshop, University of Kansas, USA
09.2021	"SafeZone Training" (allies to the LGBTQ+ students), University of Kansas, KS, USA
06.2021	"Plant Sex Chromosome Evolution" workshop, virtue, organized by University of Munich
06.2018	"Scientific Programming with Python", Amherst College, Amherst, MA, USA
04.2018	"De novo transcriptome assembly", University of Indiana, USA
02.2018	"Lausanne Genomic Days", University of Lausanne, Switzerland
03.2017	"Python for Life Scientists", University of Basel, Basel, Switzerland
02.2017	"Lausanne Genomic Days", University of Lausanne, Switzerland
10.2016	"De novo Transcriptome assembly", University of Bern, Bern, Switzerland
06.2016	"Evolution of sex determination", La Sage, Switzerland
02.2016	"Lausanne Genomic Days", University of Lausanne, Switzerland
08.2015	"Nöthiger insect sex determination", University of Lausanne, Lausanne, Switzerland
01.2015	"Introductory Course in Laboratory Animal Science", University of Lausanne, Switzerland
12.2014	"Learning Python for life sciences", University of Basel, Basel, Switzerland

07.2014	"Evolution of asexual genome", University of Lausanne, Lausanne, Switzerland
06.2014	"NGS genome & transcriptome assembly and analysis", University of Fribourg, Switzerland
11.2013	"Writing a Grant Proposal", University of Groningen, Groningen, The Netherlands
10.2013	"RNAseq data analysis workshop", University of Groningen, Groningen, The Netherlands
08.2013	"MGC Next Generation Sequencing data analysis", Medical Genetics Centre South-West Netherlands, Leiden, The Netherlands
06.2013	"Nöthiger Insect sex determination", Gif-sur-Yvette, Paris, France
10.2011	"Nöthiger Insect sex determination", Amsterdam, The Netherlands

Service as reviewer and editor

Grant Agencies:

Czech Science Foundation (CSF, 3)

French National Research Agency (ANR, 1)

Scientific Journals: (until 06.2025, total = 54)

- Nature
- Genome Biology
- PLoS Biology
- PLoS Genetics
- Molecular Biology and Evolution
- Molecular Ecology
- New Phytologist
- Proceedings of the Royal Society B
- Nature Communications
- Genome Biology and Evolution
- Axios
- Entomologia Experimentalis et Applicata
- Biological Journal of the Linnean Society
- General and Comparative Endocrinology

Guest editor for Journal of Evolutionary Biology:

Special issue on 'Sex Chromosome Evolution" (2022)

Associate Editor at Journal of Evolutionary Biology:

02.2023 - Current

- Peer Community IN (PCI) EvolBiol
- Evolution
- Journal of Evolutionary Biology
- Heredity
- Genes
- Journal of Heredity
- Ecology and Evolution
- Sexual Development
- Cells
- Current Opinion in Genetics & Development
- Frontier in Zoology
- International Journal of Molecular Sciences
- PLoS ONE

Teaching activities

Titular (Molecular Biology of the Cell)

Spring 2025 Bachelor course, Vrije Universiteit Brussel, Belgium

Spring 2024 Bachelor course, Vrije Universiteit Brussel, Belgiu

Co-Titular (Integrative Practical Biology)

Fall 2023 Bachelor course, Vrije Universiteit Brussel, Belgium

Fall 2024 Bachelor course, Vrije Universiteit Brussel, Belgium

<u>Titular</u> (Evolutionary Genetics and Genomics of Sex)

Fall 2023 Master course, Vrije Universiteit Brussel, Belgium

Fall 2024 Master course, Vrije Universiteit Brussel, Belgium

Guest lecturer (Evolution)

Fall 2023 Giving guest lecture for 'Evolution' course (2nd year bachelor course), Universite Libre Brussel, Brussels, Belgium

<u>Instructor of record</u> (Genetics and Genomics of Sex course, 1x)

Fall 2021 Bachelor course,	University of Kansas, Lawrence, KS, USA
----------------------------	---

Teaching assistant experience (Mol. Genetics course 4x; Zoology course 2x)		
09-10.2017	TA, 'Molecular Genetics', master course, University of Lausanne, Switzerland	
09-10.2016	TA, 'Molecular Genetics', master course, University of Lausanne, Switzerland	
02-06.2016	TA, 'Zoology', bachelor course, University of Lausanne, Switzerland	
09-10.2015	TA, 'Molecular Genetics', master course, University of Lausanne, Switzerland	
02-06.2015	TA, 'Zoology', bachelor course, University of Lausanne, Switzerland	
09-10.2014	TA, "Molecular Genetics", master course, University of Lausanne, Switzerland	

Mentoring activities Postdoc advisor

02.2024-	Fantin Carpentier, Biology Department, VUB, Brussels, Belgium
01.2024-	Barbora Augstenová, Biology Department, VUB, Brussels, Belgium
10.2023-	Sagar Shinde. Biology Department, VUB, Brussels, Belgium
2023-2024	Meriç Erdolu. Biology Department, VUB, Brussels, Belgium
01.2023-	Paris Veltsos. Biology Department, VUB, Brussels, Belgium

PhD student supervision

09.2025-	(scheduled) Peng Zhang. Joint PhD program, Zhejiang University - VUB, Belgium
10.2024-	Ramses Moortgat. Biology Department, VUB, Brussels, Belgium
02.2024-	Ricard Fontsere. Biology Department, VUB, Brussels, Belgium
12.2023	Hatice Ezgi Unal. Biology Department, VUB, Brussels, Belgium

Supervising/mentoring experience (5 technicians, 17 undergraduates, 5 master students)

11.2024	Co-supervisor of an undergraduate project, Rosalie Van Eeckhaute, VUB, BL
11.2024-	Co-supervisor of undergraduate project, Rehani Allan Ndeze Ndabishoboye, VUB, BL
11.2024-	Co-supervisor of an undergraduate project, Rafaël Kana, VUB, BL
10.2023-2024	Supervisor of an undergraduate project, Ezel Hahar Balci, VUB, BL
10.2023-	Supervisor of an undergraduate project, Benjamin Aime Allaer, VUB, BL
08-09.2023	Summer internship Master student, Fanny Kratz, VUB, BL
08-09.2023	Summer internship undergraduate student, Tristan Cornells, VUB, BL
06-11.2023	Supervisor of animal lab technician, Marzie Bagheri, VUB, BL
04.2023-2024	Supervisor of an undergraduate project, Marie Aerts, VUB, BL
0406.2023	Supervisor of a first-step Master project, Marzie Bagheri, VUB, BL
0409.2023	Supervisor of lab technician, Evert Bruyninckx, VUB, BL
01.2023-	Supervisor of lab technician, Ann Pauwels, VUB, BL
09.2021-02.2022	Supervisor of an undergraduate project, Jordanne Paxton, University of Kansas, USA
06.2021-08.2022	Supervisor of an undergraduate project, Murtaza Shoaib, University of Kansas, USA
06.2021-02.2022	Supervisor of a lab technician, Hunter Duke, University of Kansas, KS, USA
09.2018	PhD mid-thesis evaluation, 'Evolution of mating-type chromosomes in the anther-
	smut fungi', Fantin Carpentier, University of Paris-Sud, Orsay, France
08-09.2015	Supervisor of internship undergraduate student, 6 weeks , Anthony Sonrel, University of Lausanne, Switzerland
07-08.2015	Supervisor of internship undergraduate student, 8 weeks, Sarah Beuvier, University of
	Lausanne, Switzerland
10.2014-03.2016	Co-supervisor of master project, Guillaume Lavanchy, University of Lausanne, CH
09.2014-01.2018	Supervisor of lab technician, Roberto Sermier, University of Lausanne, Switzerland
02-06.2014	Supervisor of undergraduate from NHL Hogeschool, Kevin Noorman, 4 months,
02.2014	Supervisor of two Master students, 'Animals meet Microbes', The Netherlands
09.2013-01.2014	Supervisor of one undergraduate student from NHL Hogeschool, Mathijs Nas, 5
02-03.2013	months, Leeuwarden, The Netherlands Supervisor of two Undergraduate students, Maarten Doornkamp, Heleen Fakkert,
02-03.2013	'Evolutionary Genetic research' course, 6 weeks, University of Groningen, The Netherlands

02-03.2011 **Supervisor of two Undergraduate students**, 'Evolutionary Genetic research' course, University of Groningen, The Netherlands

PhD thesis committee service

12.2024 -	Shabnam Zaman, Vrije Universiteit Brussel, Belgium
11.2024 -	Edward Mayila, Vrije Universiteit Brussel, Belgium
11.2024 -	Chenyao Li, Vrije Universiteit Brussel, Belgium
04.2023 -	Sophie Smith, Leibniz Institute for the Analysis of Biodiversity Change (LIB)

01.2023 - Jie Wang, Max Planck Institute for plant breeding research

Master thesis committee service

10.2023 Erwan Denné, Master thesis 'Diving into genome size variation in Batoidea: from habitat interactions to methodological challenges', VUB, Brussels, BL

09.2023 Zoë De Corte, Master thesis 'Genome annotation and transcriptomic underpinning of a genetic wing dimorphism in *Bembidion properans*', ULB, Brussels, BL

Bachelor thesis committee service

O6.2024 Arielle Ikirezi, 'Unraveling the evolution of Antimicrobial Peptides of the fire bellied toad, Bombina bombina: a phylogenomic approach', VUB, Brussels, BL

06.2023 Phebe Arnauts, 'From fungi to leather-like materials: how do mycelium materials differ depending on the fungal species', VUB, Brussels, BL

06.2023 Nathan van Dam, 'Model reduction of neural induction in ascidian embryo', VUB, Brussels, BL

Academic organization/leadership services

Symposium organization: (total 9x)

07.2025	(scheduled) Main organizer for SMBE symposium 'Evolution and regulation of sex
	chromosomes and sex determination", SMBE 2025, Beijing, China
08.2022	Main organizer for ESEB symposium 'Sex chromosome evolution: the canonical model and
	so much beyond', ESEB 2022, Charles University, Czech Republic
05.2022	Organizing member for the 1st KU Centre for Genomics Symposium 2022, University of
	Kansas, KS, USA
08.2021	Main organizer for ESEB satellite symposium 'The remarkable diversity in the rate and
08.2021	mechanisms of sex chromosome evolution', ESEB satellite symposia 2021
	Main organizer for AsiaEvo Symposium "Evolutionary genetics and genomics of sex
	determination and sex chromosomes", AsiaEvo conference 2021
08.2019	Main organizer for ESEB Open Symposium sub-theme 'Genome Evolution', ESEB 2019,
	University of Turku, Turku, Finland
08.2015	ESEB 2015 organizing staff, ESEB 2015, University of Lausanne, Switzerland
02.2013	Main organizer for symposium, "Evolutionary Ecology: Genetics of Adaptation to
02.2013	Environmental Shift & Species interactions", Netherlands Annual Ecology meeting (NAEM),
	Lunteren, The Netherlands
07.2006	Symposium organizing member for 'the 7th international fig-fig wasp symposium',
	Chinese Academy of Sciences, Xishuangbanna, China

Departmental seminar/journal club organization: (total 4x)

01.2023-	Departmental seminar organizer, Biology Department, Vrije Universiteit Brussel, Belgium
09.2020-2021	Journal club discussion founder and organizer, University of Kansas, KS, USA
10.2014-2016	Journal club discussion founder and organizer, University of Lausanne, Switzerland
10.2014-2016	Topic group seminar organizer, 'Reproductive System Dynamics', University of Lausanne,
	Switzerland
10.2012-2013	Institute PhD colloquia committee member, organizing monthly-based institute

colloquia in Evolution and Ecology, University of Groningen, The Netherland

Service on faculty search as postdoc representative: (total 1x)

03.2017	Member of PhD-Postdoc search committee for an Assistant/Associate Professor hire, University of Lausanne, Department of Ecology and Evolution, Switzerland	
Contribution to DEIB service and leadership: (total 8x)		
12.2021	ADVANCEGeo "DEI" workshop, University of Kansas, KS, USA	
09.2021	Participating and active engaging in the "SafeZone Training" (training program to be the allies to the LGBTQ+ students), University of Kansas, KS, USA	
08.2021-	Written DEIB statement in my course 'Genetics and Genomics of Sex', led DEIB discussion in class and implementing the statement throughput my teaching	
06.2020-	Member of Journal of Evolutionary Biology Advisory Group, including discussion on DEI	
2021	issues within ESEB society, European Society of Evolutionary Biology	
11.2020	Active discussion on DEIB issues in undergraduate researchers working in the lab during lab journal club discussion	
2018-2020	Participating in promoting campus-wide minority cultural events, Indiana University, USA	
2007-2009	Organizing bi-monthly cultural diversity events, Chinese Academy of Sciences, China	
2002-2006	Summer internship to help minority girl students (secondary and high school levels) with study, Nanyang Normal University, China	

Professional membership

European Society for Evolutionary Biology (ESEB): 2013 - Society for the Study of Evolution (SSE): 2017 -

American Society of Naturalists (ASN): 2017 –

Genetics Society of America (GSA): 2021 –

American Genetic Association (**AGA**): 2021 – Royal Belgian Zoological Society (**RBZS**): 2023 -

Society for Molecular Biology and Evolution (SMBE): 2024 -