

## Education

|                |       |   |
|----------------|-------|---|
| 2024 – Present | PDF   | <b>Department of Zoology   University of British Columbia</b><br><i>Sex chromosomes evolution in guppies</i><br>Advisor: Judith Mank  |
| 2018 – 2024    | Ph.D. | <b>Department of Biological Sciences   Université de Montréal</b><br>Dissertation: <i>Sexual and Asexual Reproduction in the Fish Chrosomus eos x eos-neogaeus: Context, Mechanisms, and Implications (Presented in French)</i><br>Advisor: Bernard Angers<br><br><i>Candidate for 2024 Best Thesis Award &amp; Rector's Honor List</i> |
| 2015 – 2018    | B.Sc. | <b>Department of Biological Sciences   Université de Montréal</b>   |

## Publications

|      |   |
|------|---|
| 2024 | <b>Lafond J. and Angers, B.</b> TBA. Accepted (with revisions) in <i>Nature Communications</i> .<br>DOI: TBA  |
| 2024 | <b>Hargreaves A. L., Ensing J., Oliveira F., Burkiewicz J., Lafond J., [...] and Rahn O.</b> Latitudinal gradients in predation persist in urban environments. Accepted in <i>Nature Ecology and Evolution</i> .<br>Preprint DOI: <a href="https://doi.org/10.1101/2023.11.14.566324">https://doi.org/10.1101/2023.11.14.566324</a><br>DOI: TBA |
| 2023 | <b>Lafond J. and Angers, B.</b> Maternal ploidy shapes reproductive pathways in the triploid hybrid <i>Chrosomus eos</i> × <i>eos-neogaeus</i> . <i>Molecular Ecology</i> .<br>DOI: <a href="https://doi.org/10.1111/MEC.17264">https://doi.org/10.1111/MEC.17264</a>   |
| 2022 | <b>L'heureux E., Lafond J. and Angers B.</b> First record of the invasive slug <i>Arion vulgaris</i> Moquin-Tandon, 1885 (Gastropoda, Stylommatophora, Arionidae) in Quebec (Canada). <i>Bioinvasions Records</i> , 12(1): 136–150.<br>DOI: <a href="https://doi.org/10.3391/bir.2023.12.1.12">doi.org/10.3391/bir.2023.12.1.12</a>             |
| 2020 | <b>Monette K., Leung C., Lafond J., Wittische J. and Angers B.</b> Inferring responses to climate warming from latitudinal pattern of clonal hybridization. <i>Ecology and Evolution</i> , Volume 10, Issue 1, Pages 307–319.<br>DOI: <a href="https://doi.org/10.1002/ece3.5896">doi.org/10.1002/ece3.5896</a>                                 |
| 2019 | <b>Lafond J., Hénault P., Leung C. and Angers B.</b> Unexpected Oogenic Pathways for the Triploid Fish <i>Chrosomus eos-neogaeus</i> . <i>Journal of Heredity</i> , Volume 110, Issue 3, Pages 370–377.<br>DOI: <a href="https://doi.org/10.1093/jhered/esy072">doi.org/10.1093/jhered/esy072</a>   |

## Conferences

|      |           |              |  |
|------|-----------|--------------|--|
| 2024 | In person | Poster       | Evolution 2024: Symposium on Adaptive Epigenetics  |
| 2024 | In person | Invited Talk | Evolution 2024: Symposium on Adaptive Epigenetics  |
| 2024 | In person | Invited Talk | Evolution 2024: Symposium on Hybridization and Unisexual Vertebrates (Cancelled – not funded). |
| 2024 | In person | Invited Talk | CSEE 2024: Symposium on Sex Chromosomes Evolution  |
| 2023 | In person | Talk         | Evolution 2023   |
| 2023 | In person | Talk         | 33 <sup>rd</sup> Université de Montréal Biology Symposium                                      |
| 2023 | In person | Invited Talk | Evolution 2023; Symposium on Hybridization and Unisexual Vertebrates (Cancelled – not funded). |
| 2022 | Virtual   | Talk         | Evolution 2022   |
| 2022 | Virtual   | Talk         | 32 <sup>nd</sup> Université de Montréal Biology Symposium                                      |
| 2022 | Virtual   | Speed-Talk   | 32 <sup>nd</sup> Université de Montréal Biology Symposium                                      |
| 2021 | Virtual   | Talk         | ESEB Satellite Symposium: Genomic signatures and consequences of sex and asexuality            |
| 2021 | Virtual   | Speed-Talk   | Interuniversity Research Group in Limnology  |
| 2021 | Virtual   | Talk         | 31 <sup>st</sup> Université de Montréal Biology Symposium                                      |
| 2021 | Virtual   | Speed-Talk   | 31 <sup>st</sup> Université de Montréal Biology Symposium                                      |
| 2019 | In person | Talk         | Quebec Center for Biodiversity Science   |
| 2019 | In person | Poster       | Interuniversity Research Group in Limnology  |
| 2019 | In person | Talk         | 29 <sup>th</sup> Université de Montréal Biology Symposium                                      |
| 2019 | In person | Talk         | 7th International Workshop on the Biology of Fish Gametes                                      |

## Honors, Awards and Grants (PhD and up, in CAD)

|             |   |          |
|-------------|---|----------|
| 2024        | FRQNT Postdoctoral Training Scholarship Program   Ranked 4 <sup>th</sup> , 3 grants awarded in category (Ecology & Evolution) | -        |
| 2023        | Dissemination of Graduate Student Knowledge Program   FAECUM  | 500\$    |
| 2023        | International Travel Fund   FRQNT-GRIL  | 1000\$   |
| 2023        | 2 <sup>nd</sup> Prize at the Department's symposia (Oral presentation)  | 150\$    |
| 2023        | CSBQ Excellence Award   Quebec Center for Biodiversity Science  | 1350\$   |
| 2022        | Scholarship for completing a PhD in 4 years of less*   Faculty of Graduate Studies  | 12 000\$ |
| 2022        | Scholarship of Excellence   Faculty of Graduate Studies   | 2 000\$  |
| 2021        | CSBQ Fund Scholarship   Quebec Center for Biodiversity Science  | 3 372\$  |
| 2018 - 2022 | Ichthyology Research Scholarship   Joseph Arthur Paulus Foundation  | 3200\$   |
| 2018 - 2021 | Direct Ph.D. Access Scholarship   Faculty of Graduate Studies   | 30 000\$ |
| 2021        | 1 <sup>st</sup> Prize at the Department's symposia (Oral presentation)  | 100\$    |
| 2021        | 1 <sup>st</sup> Prize at the Department's symposia (Speed-Talk)   | 100\$    |
| 2020        | Scholarship of Excellence**   Hydro-Québec  | 20 000\$ |
| 2020        | Doctoral Scholarship   Fédération des caisses Desjardins du Québec  | 1 500\$  |
| 2020        | Dissemination of Research Results Grant   Faculty of Graduate Studies   | 1 514\$  |
| 2019        | Scholarship of Excellence   Étienne Magnin Foundation   | 5 000\$  |
| 2019        | Travel Grant (for a Symposia)   The American Genetic Association  | 200\$    |
| 2019        | 1 <sup>st</sup> Prize at the Department's symposia (Oral presentation)  | 60\$     |
| 2018        | Scholarship of Excellence   Department's Funds  | 1 500\$  |
| Total       |   | 84k \$   |

\* 5 years or less in the case of a direct transfer from Undergraduate studies to PhD.

\*\* Should have been renewed twice (totaling 60K\$), but a change in the grant's spectrum made me ineligible after one year.

## Academic Experience

|           |              |   |
|-----------|--------------|---|
| 2018-2023 | TA (Grading) | Multiple courses over the years (Evolutionary Genetics, Populations Genetics, Bioethics, Adaptive Ecology).   |
| 2020      | Lecturer     | <i>Evolutionary Genetics</i> (Winter session). Taught both face-to-face and in virtual due to COVID emergence. Produced new teaching material and examinations and improved old material. |
| 2018-2022 | TA (Exams)   | Exam supervision. Over 20 contracts over the years.   |
| 2019      | TA (Demo)    | Bioethics course, in class help and discussions guidance.   |

## Social Mobilization, Outreach & Lab Involvement

|             |   |   |
|-------------|---|---|
| 2021 - 2023 | <b>Management of laboratory products</b>  | Includes inventory of the stocks, evaluation of the needs for the lab's experiments and purchases through our institute system. Prices and products comparison and choice.  |
| 2020 - 2023 | <b>Creation and management of the Lab's website:</b><br><a href="http://www.mapageweb.umontreal.ca/labobangers/">http://www.mapageweb.umontreal.ca/labobangers/</a> | Includes HTML/CSS website creation, launch and maintenance.   |
| 2022        | <b>Support Our Science</b>  | Marching and chanting for higher salaries of graduate students as well as postdocs.   |
| 2022        | <b>Researchers' Night in Montreal (Botanical Garden)</b>  | Event aiming to open the sometime obscure world of scientists to people of the public. I vulgarized my research to people of all ages and knowledge. As a "demo", my role was to set up a table with many trigger objects from the lab, aiming to incite curiosity all night long. More than 700 were present!  |
| 2021        | <b>Researchers' Night in Montreal (Biodome)</b>   | Event aiming to open the sometime obscure world of scientists to people of the public. As a "one-on-one" volunteer, my role was to openly discuss about my research and the day-to-day life of a graduate student in research for a few hours. All that with members of the public of all ages, in small groups, aiming for a highly interacting discussion. More than 300 curious people were present! |
| 2021        | <b>Seminar poster template of the <i>Institut de Recherche en Biologie Végétale</i> (Montreal)</b>  | Producing high quality template for the weekly seminars of the institute.   |
| 2021        | <b>GRIL Annual Symposium Organizing Committee</b>   | Giving help and direction on the creation of the <i>Gather</i> rooms for the Symposium.   |
| 2021        | <b>Department's Annual Symposium Organizing Committee</b>   | Choosing the theme and guests, building the <i>Gather</i> platform, contacting potential guests and evaluators, building the website, and creating the event poster.  |
| 2020        | <b>Department's Research Day Organizing Committee</b>   | Building the event's page on <i>Studium</i> (Moodle) and producing the lab's graphic material for the event.  |
| 2020        | <b>Seed Predation Experiment (Collaborative Science Project)</b>  | Experiment lead by Dr. Anna L. Hargreaves (McGill University, Montreal) aiming to understand the effect of urbanization on plant herbivory. Involved taking frequent measures of seed predation in numerous habitat type from spring to fall. 360 samplings, 45h of work.   |
| 2020        | <b>Mission Monarch by Space for Life (Community Science)</b>  | Aimed to understand and monitor monarch butterflies' populations as this species is declining in North America. Involved lots of milkweed samplings to check for any life stages of the monarch butterfly.  |

## Supervision Experiences

|             |  |
|-------------|--|
| 2017 – 2023 | <b>Primary wetlab mentor (5 undergraduate students over the years)</b><br>DNA extractions; Genotyping with microsatellites and other markers; Mitochondrial origins determination; Methylation sensitive amplification analyses; Lab Safety.   |
| 2022        | <b>Primary field mentor (1 undergraduate student)</b><br>Supervision of an intern for another PhD student's project on the field, since I had assisted the same student in the precedent year. Pollinators sampling; GoPro cameras setup; Flowers picturing for morphometric analysis. |
| 2021        | <b>Secondary wetlab mentor (1 undergraduate student)</b><br>General laboratory supervision; Lab Safety.  |

## Formations, Certifications and Courses

|      |              |                    |  |
|------|--------------|--------------------|--|
| 2024 | UBC          | Workshop           | Chemical & Biological Safety in Lab          |
| 2024 | UBC          | Workshop           | Ethics for animal (Fish) users               |
| 2024 | UBC          | Workshop           | Workplace trainings                          |
| 2022 | UdeM         | Workshop           | Preparation of a Grant Application           |
| 2022 | UdeM         | Workshop           | Teaching Assistant Formation Program (Pilot) |
| 2021 | IRIC         | Platform Formation | Flow Cytometry Formation                     |
| 2020 | UConnecticut | Workshop           | Rad-Seq Analysis                             |
| 2020 | Publons      | Workshop           | Publons Academy Practical Peer Review course |
| 2020 | UdeM         | Workshop           | Animal Experimentation Formation (CDEA)      |
| 2020 | UdeM         | Workshop           | Exam Supervision and plagiarism Formation    |
| 2019 | McGill       | Workshop           | Lab Safety and Chemical Waste Disposal       |
| 2019 | UdeM         | Workshop           | "No to Sexual Violence" Formation            |
| 2018 | UdeM         | Course             | Scientific Communication                     |
| 2018 | EcoLac       | Workshop           | Lake environments workshop                   |

## Internships

|           |                     |  |
|-----------|---------------------|--|
| 2019      | Teruko Taketo's Lab | One month internship in cytometry and cell imaging.  |
| 2017-2018 | Bernard Angers' Lab | Two summer internships in various methods in (epi)genetics analyses, leading to PhD project. |

## Academic Service

|      |             |                              |
|------|-------------|------------------------------|
| 2019 | Peer Review | Ecology of Freshwater Fishes |
|------|-------------|------------------------------|

## References

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|-------------------|--|----------------|--|
| 01/2024 – Present | PDF supervisor                           | Judith Mank    | <a href="mailto:judith.mank@ubc.ca">judith.mank@ubc.ca</a>                   |
| 09/2018 – 12/2023 | PhD supervisor                           | Bernard Angers | <a href="mailto:bernard.angers@umontreal.ca">bernard.angers@umontreal.ca</a> |
| 09/2018 – 12/2023 | Supervisory Committee & Frequent advisor | Annie Angers   | <a href="mailto:annie.angers@umontreal.ca">annie.angers@umontreal.ca</a>     |
| 09/2018 – 12/2023 | Frequent advisor                         | Sophie Breton  | <a href="mailto:s.breton@umontreal.ca">s.breton@umontreal.ca</a>             |
| Summer 2019       | Internship supervisor                    | Teruko Taketo  | <a href="mailto:teruko.taketo@mcgill.ca">teruko.taketo@mcgill.ca</a>         |