

Felix Beaudry

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EDUCATION

PhD, Department of Ecology and Evolutionary Biology Feb 21 2020
University of Toronto
Supervisor: Dr. Stephen Wright
Thesis title: Recombination restriction, degeneration and population divergence on plant sex chromosomes

Bachelor of Science (Honours), Department of Biology 2014
University of Victoria
Supervisor: John Taylor
Thesis title: Why do fish have so many opsins?

PUBLICATIONS

Refereed publications

Beaudry FEG, Barrett SCH, Wright SI. 2019. Ancestral and neo-sex chromosomes contribute to population divergence in a dioecious plant. *Evolution*. 74(2):256-279.

Sandler G, **Beaudry FEG**, Barrett SCH, and Wright SI. 2018. The effects of haploid selection on Y chromosome evolution in two closely related dioecious plants. *Evolution Letters*. 2(4):368-377

Beaudry FEG, Barrett SCH, Wright SI. 2017. Genomic loss and silencing on the Y chromosomes of *Rumex*. *Genome Biology and Evolution*. 9(12):3345-3355

Beaudry FEG, Iwanicki T, Mariluz B, Darnet S, Brinkmann H, Schneider P, Taylor J. 2017. The non-visual opsins: eighteen in the ancestor of vertebrates, astonishing increase in ray-finned fish, and loss in amniotes. *JEZ-B*. 328:685-696

- Spring 2019: Awarded “Top 20 most downloaded papers” in JEZ-B

Braasch I *et al.* (**author 24** of 61). 2016. The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. *Nature Genetics*. 48(4):427-437

Select presentations

2020 “Patterns in sex chromosome evolution: insights from plants” Biology E2G2 Seminar, Feb 7, University of Rochester, oral, invited

2020 “Patterns in sex chromosome evolution: insights from the plant *Rumex hastatulus*” BEAP Meeting Seminar, Jan 23, McMaster University, oral, invited

- 2019 “Haploid selection on large sex chromosomes” Evolution, June 21-25, Providence RI, oral, contributed
- 2018 “Introgression of a Y chromosome haplotype into a neo-Y karyotype in *Rumex*” Society of Molecular Biology and Evolution (SMBE), July 8-12, oral, contributed
- 2016 “Genomic deletion and silencing on the Y chromosomes of *Rumex hastatulus*”, EvSex, Nov 17-19, Phoenix AZ, oral, contributed
- 2016 “Why do plant Y chromosomes grow?”, Ontario Ecology Ethology and Evolution Conference (OE3C), May 5-7, Toronto ON, oral, contributed
- 2015 “Degeneration of the Y chromosome of *Rumex hastatulus*: a search for signs of adaptation” American Genetics Association (AGA) 2015: Chromosome evolution, August 17-20, Seattle WA, poster, contributed
- 2014 “Why do fish have so many opsins?”, Society for Molecular Biology and Evolution (SMBE), June 8-12, San Juan PR, poster, contributed

TEACHING EXPERIENCE

Teaching assistantships

BIO120 Adaptation and Biodiversity	Fall 2015, 2019
BIO220 From Genomes to Ecosystems in a Changing World	Winter 2015-16
EEB318 Principles of Evolution	Fall 2016
EHJ352 Evolution of the Human Genome	Fall 2016-18
EEB460 Molecular Evolution	Fall 2017-19

Guest lectures

EEB318: Principles of Evolution	Nov. 2016
<ul style="list-style-type: none"> Lecture title: Sex Chromosomes 	
EEB214: Adaptation and Evolution	2018-19
<ul style="list-style-type: none"> Lecture title: Speciation 	
EEB460: Molecular Evolution	Oct. 2019
<ul style="list-style-type: none"> Lecture title: Sex Chromosomes 	

Mentorship

Undergraduate students:

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|---|---------|
| <ul style="list-style-type: none"> Neil Macalasdair | 2015-16 |
| <ul style="list-style-type: none"> George Sandler | 2016-17 |
| <ul style="list-style-type: none"> Josiah Butt | 2017-18 |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> Winner of the Undergraduate Poster Fair | 2018 |
| <ul style="list-style-type: none"> Meng Yuan | 2018-19 |
| <ul style="list-style-type: none"> Amanda Peak | 2019-20 |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> Winner of the Undergraduate Poster Fair | 2020 |

Graduate students	
• Leila Forsyth	2016-17
• Talia Lowi-Merri	2017-18
• Chris Reid	2018-19
• Daniel Gillis	2018-19
Head Organizer for EEB Graduate Mentorship Program	2018-19
<i>Teacher Training</i>	
• THE500: Teaching in Higher Education	Jan.-April, 2018
ACADEMIC SERVICE	
Manuscript Review	
<i>Plant Ecology and Diversity, Protoplasma</i>	
Student Advisory	
• EEB Graduate Student Satisfaction Survey	2017
• Provincial Government Department External Review	Mar. 2018
Club Organizer	
• EEB Evolution and Sex Journal Club	2017-18
• ‘Intro to bioinformatics’ workshop	2019, weekly
EEB Graduate Student Association (EGSA)	
• Atwood Colloquium Selection Committee Chair	2017-18
• President	2016-17
• Secretary	2015-16
Atwood Colloquium	
• Atwood Colloquium Selection Committee Chair	2017-18
• Session Moderator	2017-18
• Set-up Volunteer	2015-17
AWARDS	
BW Pearse Science Scholarship Award	2014
• Top grade in the graduating class (CA\$250)	
Seven-Up Club	2014
• Graduating GPA above ‘A’ letter grade	
NSERC	2014
• Undergraduate Summer Research Award (CA\$4500)	
American Genetics Association (AGA) Chromosome Evolution Conference	2015
• Student Travel Award	
Evolution and Sex Conference	2016
• Student Travel Award (USD\$550)	
Peter Abrams Prize – Honourable mention	2019
• For sustained research excellent of senior PhD student (CA\$250)	

Harold Harvey Prize – Honourable mention 2019
• For sustained contributions to the intellectual life of department (CA\$250)

EXTRA-CURRICULAR

Science Outreach

Judge, Toronto High-School Science Fair 2017-19
Guest lecture on plant genetics in grade 11 class at Port Perry High School 2019

Professional Societies

Member, American Genetic Association (AGA) 2014-2018
Member, Society of Molecular Biology and Evolution (SMBE) 2018-2020
Member, Society for the Study of Evolution (SSE) 2019

Ontario Ecology Ethology and Evolution Conference (OE3C)
• Organizing Committee Secretary 2015-16
Session Moderator, The Allied Genetics Conference (TAGC) 2016
Volunteer, AGA conference: Quantitative Genetics in the Wild Mar. 2018