Thomas Wolfe | Curriculum Vitae

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"Change is the only constant" - Heraclitus of Ephesus

Education

University of Vienna / Vienna Graduate School of Population Genetics	**Austria**
Ph.D. in Evolutionary Genomics	*2015–present*
University of Lausanne	**Switzerland**
Master in Molecular Life Sciences	*2014–2015*
University of Lausanne	**Switzerland**
Bachelor in Biology	*2010–2014*
EPFL	**Switzerland**
First year Mathematics	*2008–2010*
Chamblandes	**Switzerland**
High School, Mathematics-Physics optional line	*2005–2008*
Mézières	**Switzerland**
Secondary School	*2000–2005*

Doctoral Project

Working Title: *Dactylorhiza Allopolyploidization, from Ecological Differentiation to Molecular Evolution*

Supervisors: Ass. Prof. Ovidiu Paun, Ass. Prof. Claus Vogl, and Prof. Christian Lexer

Description: This project explores the ecological relevance of polyploidy in natural wild Orchid populations. We are using state-of-the-art transcriptomics (RNA-seq) data to assess these questions.

Masters Thesis

Title: *The long term effect of polyploidisation on transposable element activity.*

Supervisors: Prof. Marc Robinson-Rechavi and Dr. Sacha Laurent

Description: This thesis explored the idea that transposable element activity could be higher in polyploids.

Publications

Balao, F. *et al.* Adaptive sequence evolution is driven by biotic stress in a pair of orchid species (*Dactylorhiza*) with distinct ecological optima. *Molecular Ecology* **26**, 3649–3662 (2017).

Wolfe, T. M. *et al.* Macro-and microevolutionary drivers of divergent evolution in two sibling allopolyploid *Dactylorhiza*. *Advanced draft intended for PNAS* (2019).

Wolfe, T. M. *et al.* Patterns of homoeolog biases and expression level dominance and their evolutionary implication between two sibling polyploid orchids. draft and results. *Advanced draft intended for Molecular Biology and Evolution* (2019).

Computer skills

Basic: Lisp

Intermediate: C/C++, Julia, particular interest in GoLang

Advanced: R, Python, Bash Scripting, Markdown, LaTeX

GitHub: www.github.com/twolfe

Communication Skills

2018-**Sep**: Oral Presentation at GFÖ - Vienna, Austria

2018-**Aug**: Poster at II Joint Congress on Evolutionary Biology - Montpellier, France

2017-**Oct**: Poster at Plant Genome Evolution - Barcelona, Spain

2017-**Sep**: Poster at Plant Epigentics - Vienna, Austria

2017-**Jun**: Oral Presentation at Botany - Fort Worth, Texas

2017-**Jan**: Oral Presentation at PopGroup - Cambridge, UK

2016-**Mai**: Oral Presentation at the International Conference on Polyploidy - Rovinj, Croatia

Teaching

Vienna Graduate School of Population Genetics   **Austria**
Experimental evolution: From theory to practice   *November 6-10, 2017*
Assisted student with exercises.

University of Vienna   **Austria**
300369 UE Genomic approaches to variation and adaptation   *2017*
Transcriptomics and assistance with exercises.

Courses and workshops

2016-**Dec**: Inferring Natural Selection using Genomic Data - Ferrara, Italy

2015-**Aug**: Genetic data analysis in R - Glasgow, Scotland

Experience

Academic

University of Lausanne   **Switzerland**
Intern for Prof. Hardtke's lab   *2012–2013*
Our project was aimed at classifying root meristems of Arabidopisis cotyledons using a cross entropy method. My direct supervisors were Dr. L. Santuari and Dr. E. Scacchi.

Detailed achievements:
- I learned how to work in a collaborative scientific group
  - Communication
  - Assessing feasibility
  - Implementing new ideas
    - What biological data is needed
    - What statistical methods are appropriate
- Do not reinvent the wheel!

Miscellaneous

JOWA   **Switzerland**
Baker, Ecublens   *2014–2015*
This factory produces bread for the largest swiss supermarket . Night shifts in industry.

Globus   **Switzerland**

Security guard, Lausanne   *2010–2011*

I was employed to make sure no items would leave the shop without having been paid. This work involved some diplomacy.

Manor   **Switzerland**

Logistics, Lausanne   *2006–2008*

My work was to load and unload the merchandise coming in and going out of the store. Responsible for bringing merchandise to the five floors of the shop.

Various   **Switzerland**

Watch mechanic   *2002–2004*

Many monthly work experiences in the fields of the watch industry and mechanics. These were done to sensitize young people to there interests for later apprenticeships.

Languages

English: Mothertongue   *Father's language*

French: Mothertongue   *Mother's language*

German: Intermediate   *Daily usage*

Italian: Intermediate   *Learned at school*

Serbian: Basic   *Basic words and phrases*

Interests

- Clarinet/Saxophone   - Music
- Chess   - Reading
- Traveling   - Rugby