Johan Hallin

CV

I am a dedicated scientist with an eye for details. I have managed large projects with close collaborators and have positioned myself at the intersection of computational and molecular biology

contact

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scholar.google.com/citations?user=rtnFHLUAAAAJ&hl

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Skills

- R programming
- Unix bash
- Python
- Yeast genetics
- Writing
- Presenting
- Supervising
- Design
- English
- Swedish
- Spanish

Education

Bachelor of Science
Biology
University of Gothenburg
2010 - 2013

Master of Science
Molecular biology
University of Gothenburg
2013 - 2014

PhD
Université Côte d'Azur
2014 - 2018

Experience

For my Bachelor's and Master's thesis I was working in the lab of Jonas Warringer. During my Bachelor I was in charge of a large experimental evolution project which was later taken over by a PhD student. My Master's was also focused on experimental evolution, looking into the different evolutionary trajectories of clonal colonies and colonies with standing genetic variation. During my time in Gothenburg I supervised master students and the occasional postdoc and also helped set up the novel phenotyping methodology Scan-o-matic[3].

After my Master's I was granted an Erasmus Placement Program scholarship to go to Gianni Liti's lab at the institute for research on cancer and aging, Nice (IRCAN). During this period I enhanced my molecular biology skills and was key in finalizing a project in the lab by constructing a large phenotyping experiment[5].

I enrolled in the competitive LabEx Signalife PhD program and joined Dr. Liti's team as a PhD student. It resulted in two successful papers stemming from a large scale experiment I performed[1,2]. The two papers were highly collaborative with close collaborations between labs in France, Sweden and the U.K. During this period I further advanced my programming and analytical skills by handling large amounts of data and by spending two weeks as a visiting researcher in Leopold Parts lab at the Sanger Institute. I am continuing my work with Gianni by working with big NGS datasets to elucidate the nature of meiotic recombination.

I recently started my first post doc position with Christian Landry. Here I hope to further improve my molecular biology and bioinformatics skills while studying the exciting phenomenon of de novo gene emergence

Papers

1. K. Märtens*, J. Hallin*, *et al.* Predicting quantitative traits from genome and phenome with near perfect accuracy. *Nature Communications*, 2016
2. J. Hallin*, K. Märtens*, *et al.* Powerful decomposition of complex traits in a diploid model. *Nature Communications*, 2016
3. M. Zackrisson, J. Hallin, *et al.* Scan-o-matic: High-resolution microbial phenomics at a massive scale. *G3*, 2016
4. J. Yue, [..2..], J. Hallin, *et al.* Contrasting evolutionary genome dynamics between domesticated and wild yeasts. *Nature Genetics*, 2017
5. I. Vazques-Garcia, [..4..], J. Hallin, *et al.* Background-dependent effects of selection in subclonal heterogeneity. *Cell Reports*, 2017

Awards & Scholarships

- 2017 — Poster Prize, 28th ICYGMB
- 2016 — Oral Presentation Prize, Signalife Student Conference
- 2016 — Visiting researcher Sanger Institute, U.K., Doctoral school ED85
- 2014 — Erasmus Placement Program
- 2013 — Educational Stipend, University of Gothenburg

Referee

- Molecular Biology and Evolution
- Nature Ecology and Evolution
- Current Biology
- Plos Biology
- Yeast