Sheng-Kai Hsu

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Positions & Education

Year	Position / Degree
2022–present	Postdoc, Institute for Genomic Diversity, Cornell University
2017–2021	Ph.D., Vienna Graduate School of Population Genetics, Univ. of Veterinary Medicine Vienna *Advisor: Christian Schlötterer*
2014–2015	M.Sc., Department of Agronomy, National Taiwan University *Advisor: Chih-Wei Tung*
2010–2014	B.Sc., Department of Agronomy, National Taiwan University

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Publications

- **Two different adaptive speciation mechanisms operate during adaptation to a novel hot environment** (2021), DOI
- **Reduced Parallel Gene Expression Evolution With Increasing Genetic Divergence—A Hallmark of Polygenic Adaptation** (2025), DOI
- **Rapid sex-specific adaptation to high temperature in Drosophila** (2020), DOI
- **Pleiotropy increases parallel selection signatures during adaptation from standing genetic variation** (2025), DOI
- **Pleiotropy increases parallel selection signatures during adaptation from standing genetic variation** (2025), DOI
- **Pleiotropy increases parallel selection signatures during adaptation from standing genetic variation** (2025), DOI
- **Pleiotropy increases parallel selection signatures during adaptation from standing genetic variation** (2024), DOI
- **Pleiotropy increases parallel selection signatures during adaptation from standing genetic variation** (2024), DOI
- **Parallel gene expression evolution in natural and laboratory evolved populations** (2021), DOI
- **Neuronal function and dopamine signaling evolve at high temperature in Drosophila** (2019), DOI
- **Grass Rhizome Proteomics Reveals Convergent Freezing-Tolerance Strategies** (2025), DOI

- **Extensive modulation of a conservedcis-regulatory code across 589 grass species** (2025), DOI
- **Extensive genome evolution distinguishes maize within a stable tribe of grasses** (2025), DOI
- **Effects of larval crowding on the transcriptome of Drosophila simulans** (2023), DOI
- **Contrasting rhizosphere nitrogen dynamics in Andropogoneae grasses** (2025), DOI
- **Contrasting Rhizosphere Nitrogen Dynamics in Andropogoneae Grasses: Implications for Sustainable Agriculture** (2024), DOI
- **A 24 h Age Difference Causes Twice as Much Gene Expression Divergence as 100 Generations of Adaptation to a Novel Environment** (2019), DOI

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