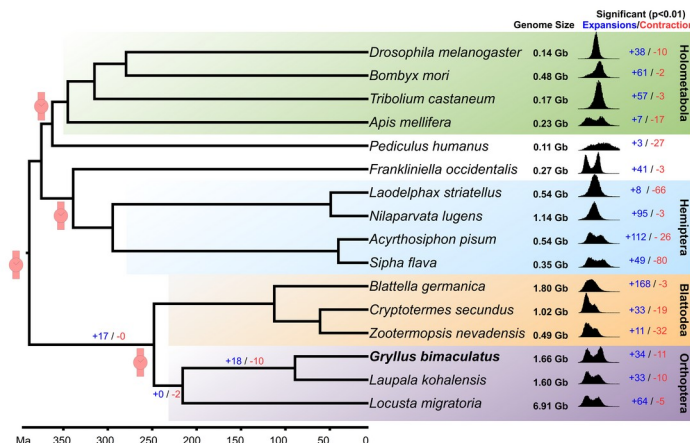


Cricket genomes: the genomes of future food



- We **sequenced and annotated the *Gryllus bimaculatus* genome**, and annotated the *Laupala kohalensis* genome. (Annotation pipeline available: https://github.com/guillemylla/Crickets_Genome_Annotation)
- We compared these **2 cricket genomes to 14 other insect genomes** to gain insights into crickets genome evolution.
- We provide insights into **genome size evolution in insects**.
- We show that genes **displaying methylation fingerprints** (CpG depletion) are under **stronger purifying selection** and **perform similar functions across distant insect species**.
- We found that **Pickpocket genes could play a role courtship behaviour** including chirping.

Availability: 10am-12pm EST. Tuesday, Wednesday, and Thursday.

At: #discussion-genome-annotation, private chat, or guillem_ylla@fas.harvard.edu

Preprint: <https://www.biorxiv.org/content/10.1101/2020.07.07.191841v1>

