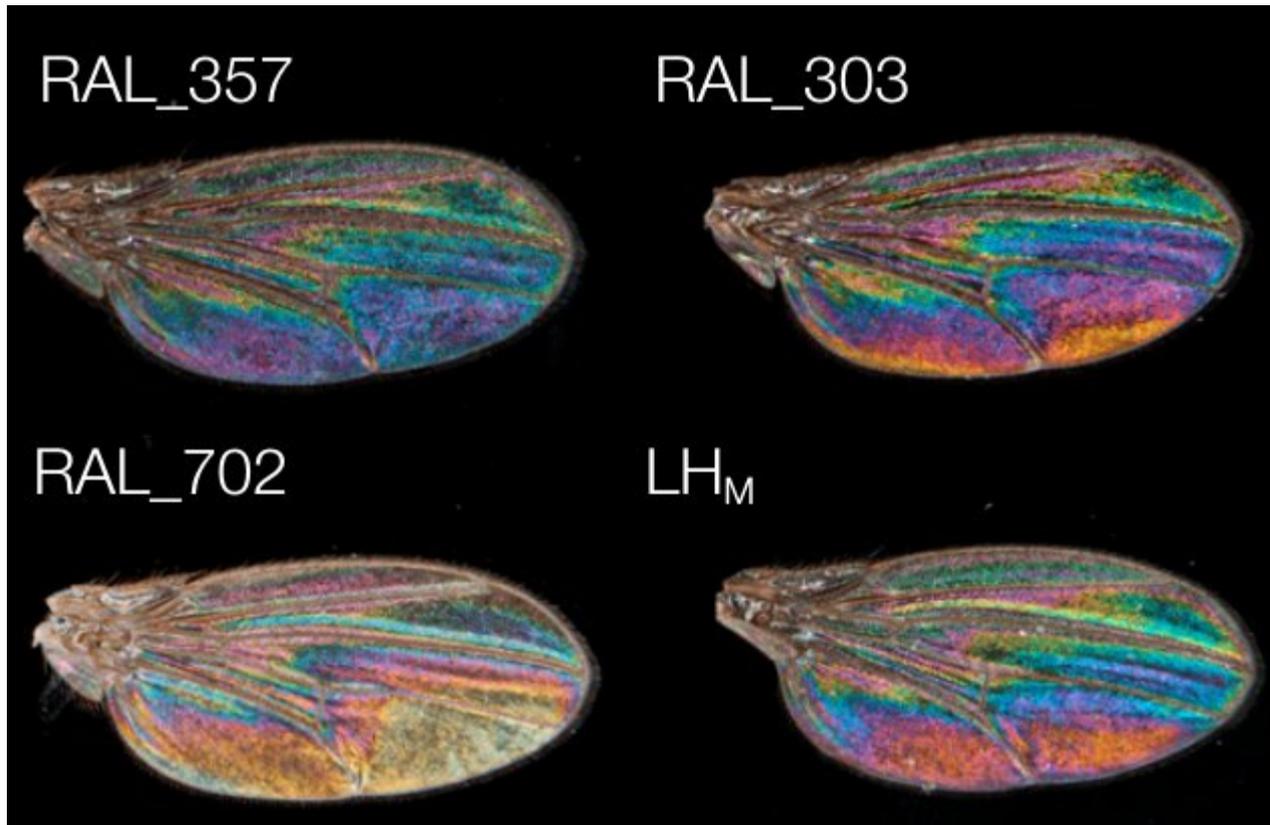
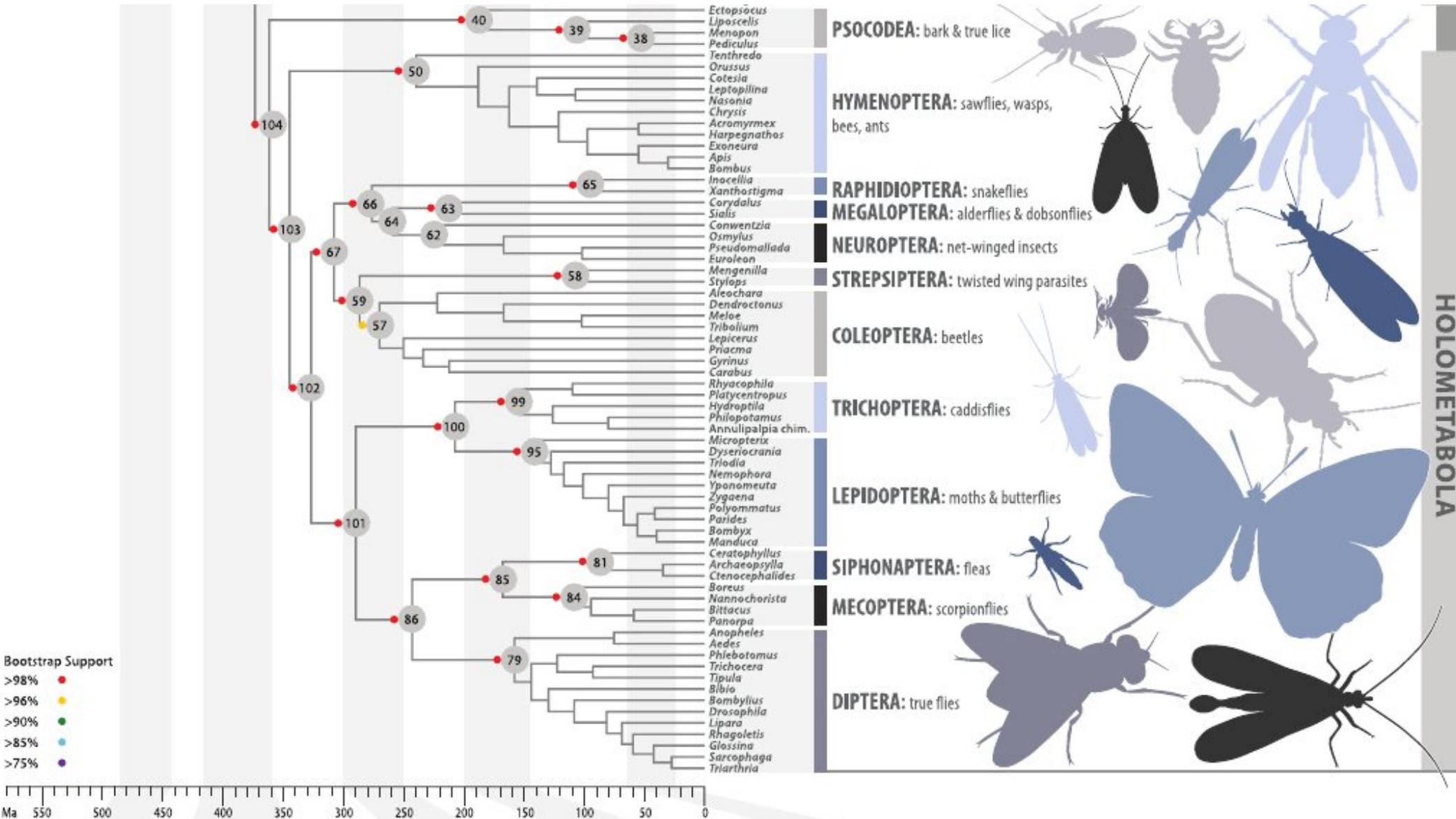


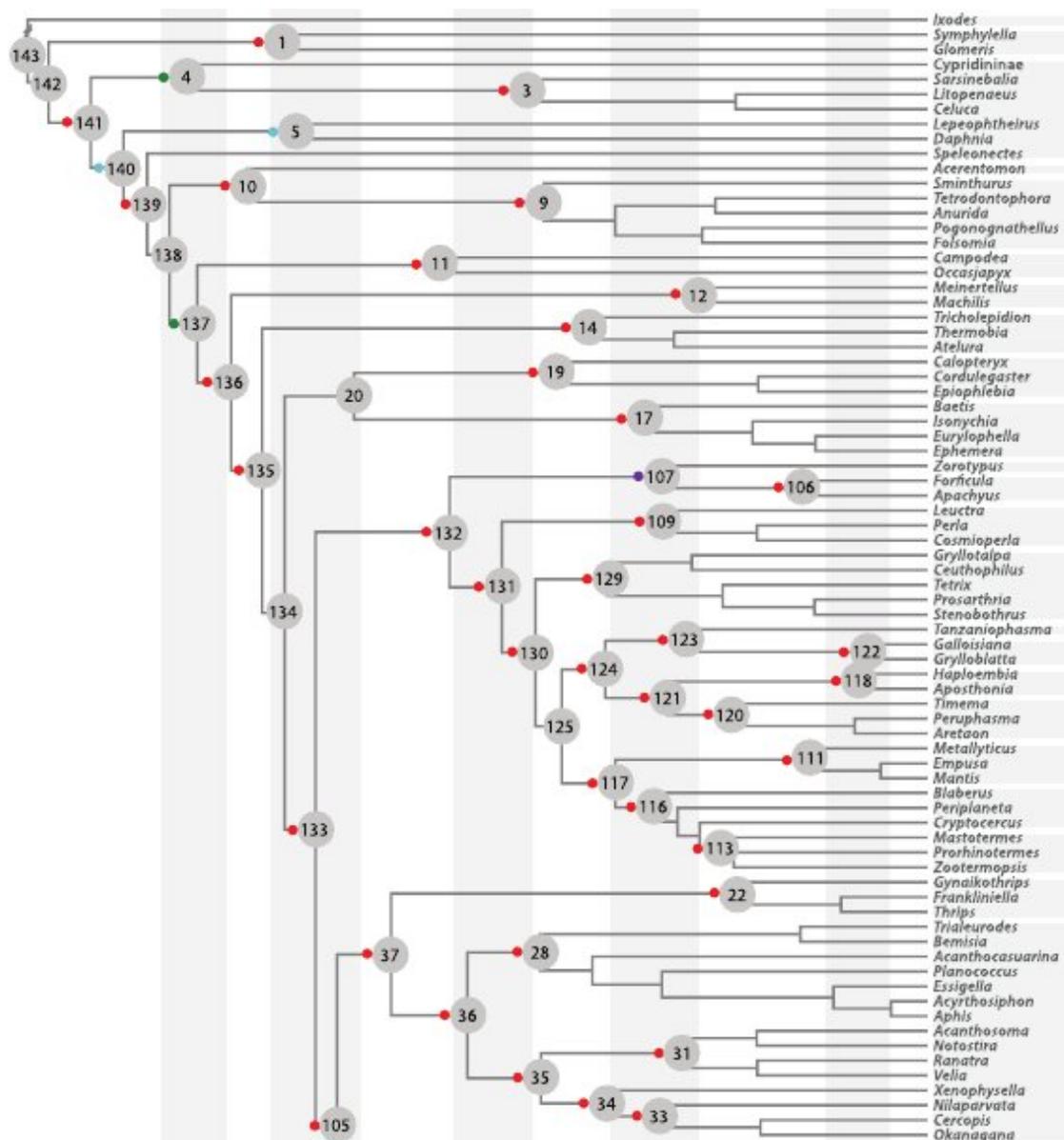
Sexual selection on wing interference patterns in *Drosophila melanogaster*

Natsu Katayama^a, Jessica K. Abbott^b, Jostein Kjærandsen^c, Yuma Takahashi^{d,e}, and Erik I. Svensson^{b,1}



Phylogenomics resolves the timing and pattern of insect evolution





**CHELICERATA
MYRIAPODA**

CRUSTACEANS

PROTURA: coneheads

COLLEMBOLA: springtails

DIPLURA: two-pronged bristletails

ARCHAEOGNATHA: jumping bristletails

ZYAGENTOMA: silverfish

ODONATA: damselflies & dragonflies

EPHEMEROPTERA: mayflies

ZORAPTERA: ground lice

DERMAPTERA: earwigs

PLECOPTERA: stoneflies

ORTHOPTERA: crickets & katydids

MANTOPHASMATODEA: gladiators

GRYLLOBLATTODEA: ice crawlers

EMBIOPTERA: webspinners

PHASMATODEA: stick & leaf insects

MANTODEA: praying mantids

BLATTODEA: cockroaches

ISOPTERA: termites

THYSANOPTERA: thrips

HEMIPTERA: bugs, cicadas,
plant lice

HEXAPODA

PAL.

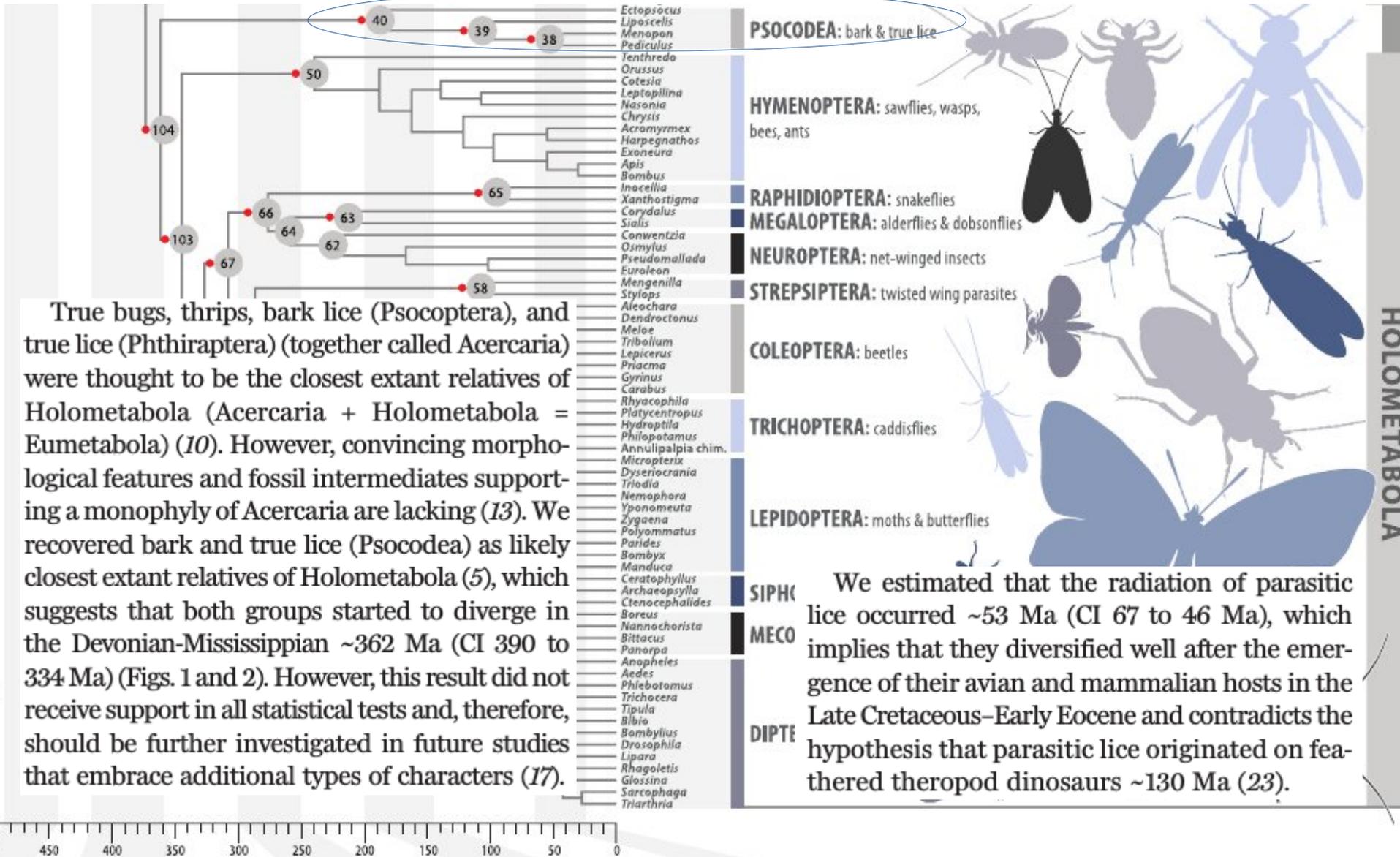
POLYNEOPTERA

INSECTA

CONDYLO.

Transcriptome sequences of three lice species

Menopon gallinae
Ectopsocus briggsi
Liposcelis bostrychophila



EVOLUTIONARY BIOLOGY

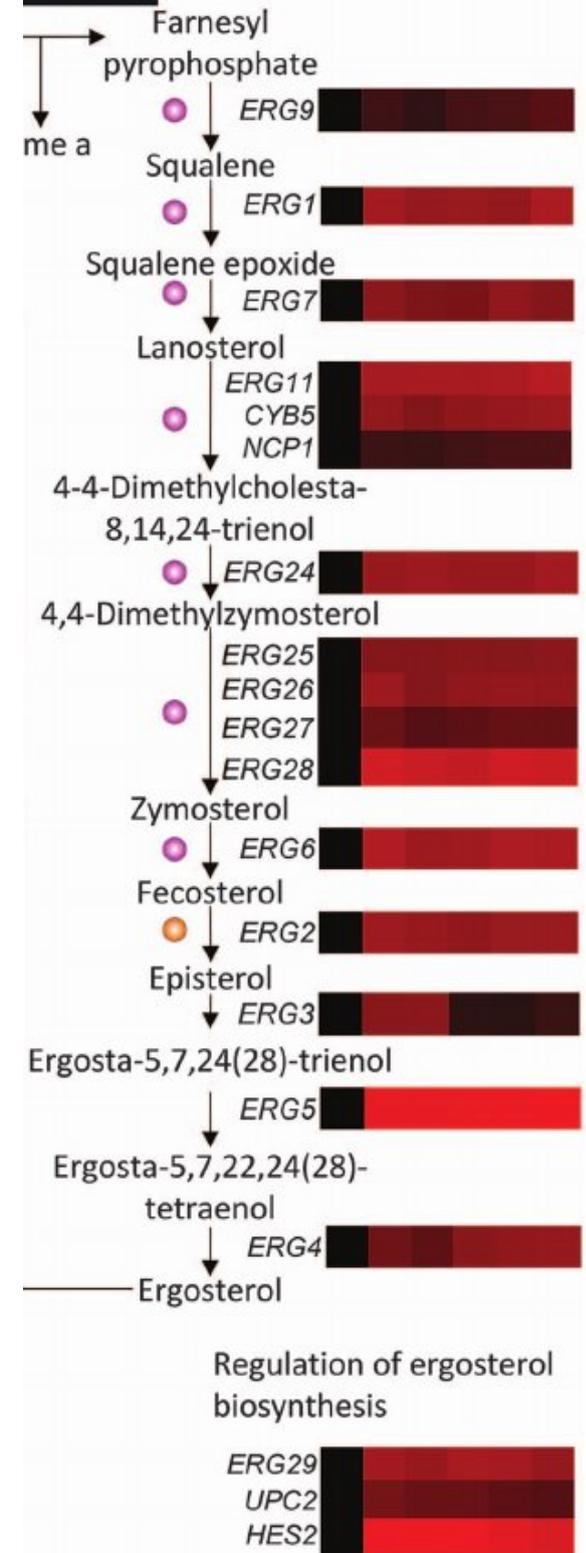
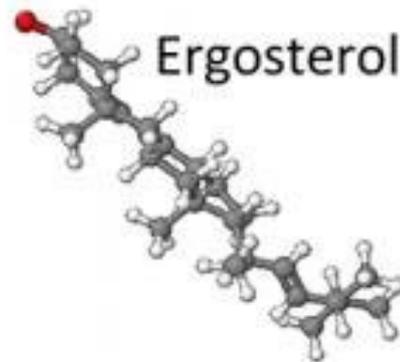
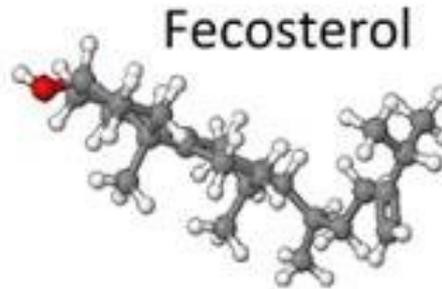
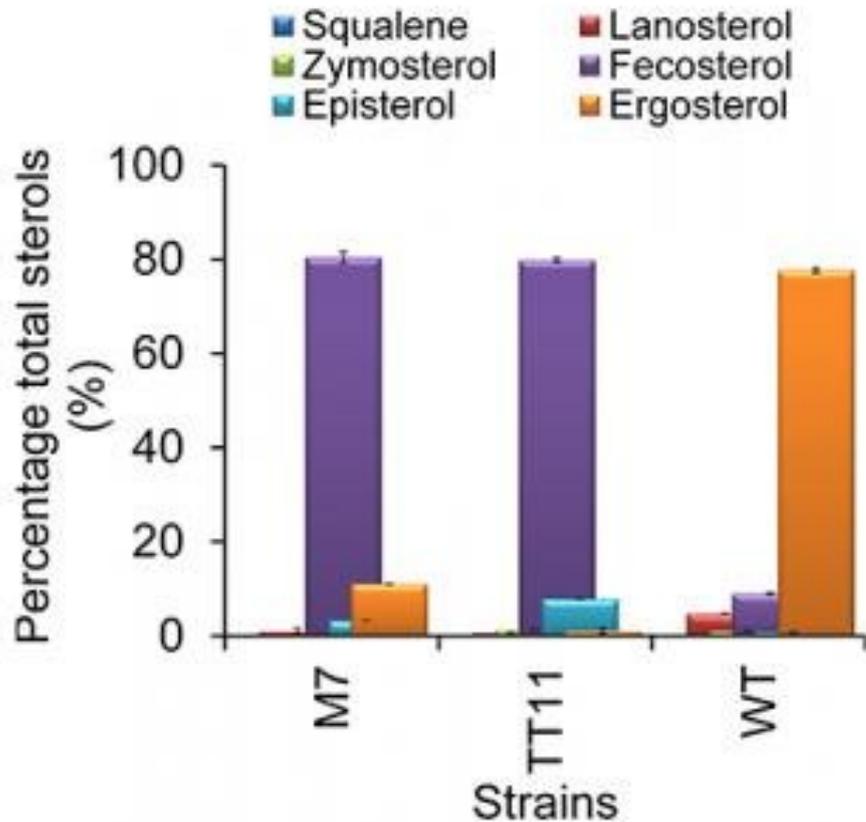
Rapid evolution of a native species following invasion by a congener



Native green anoles (left) have evolved better gripping feet in response to an invasion of brown anoles (right) on islands in Florida.

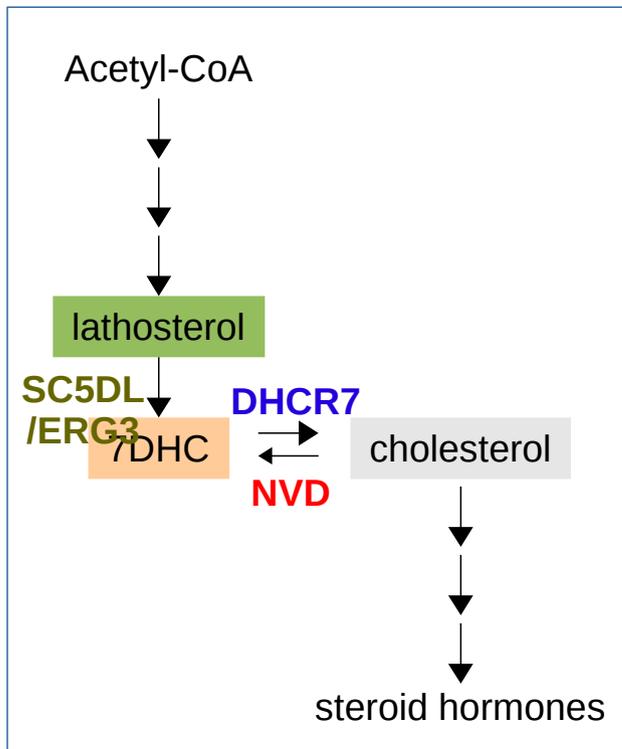
Altered sterol composition renders yeast thermotolerant

Three replicates. All have nonsense mutations in *ERG3*.

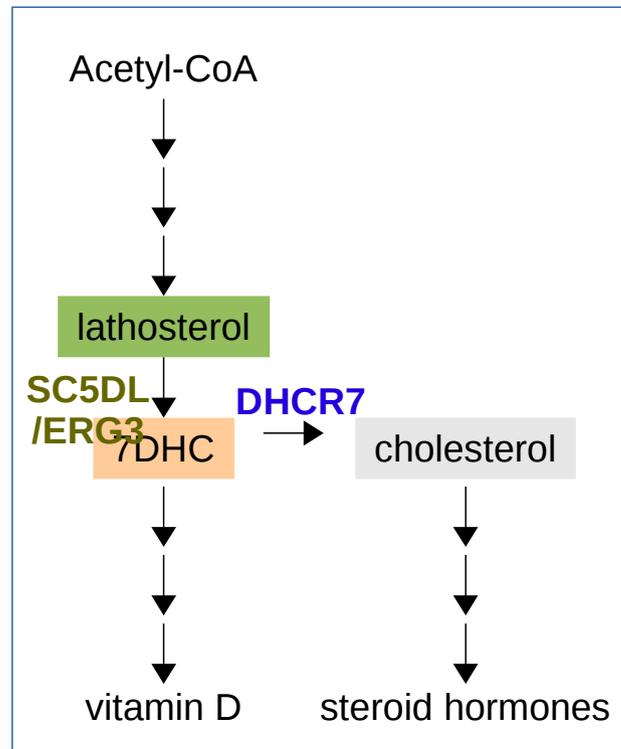


nvd versus *ERG3*

Sea anemone *Nematostella*

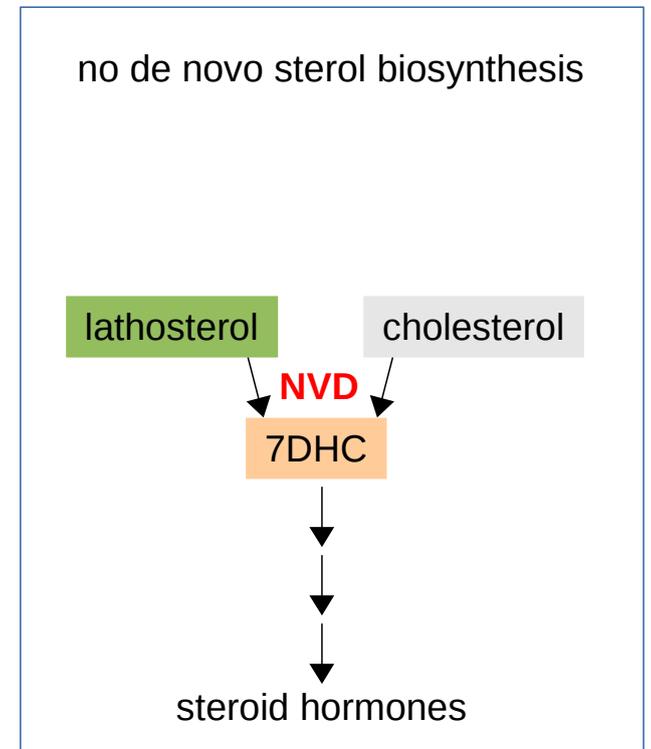


Mammals



no **NVD**

Drosophila



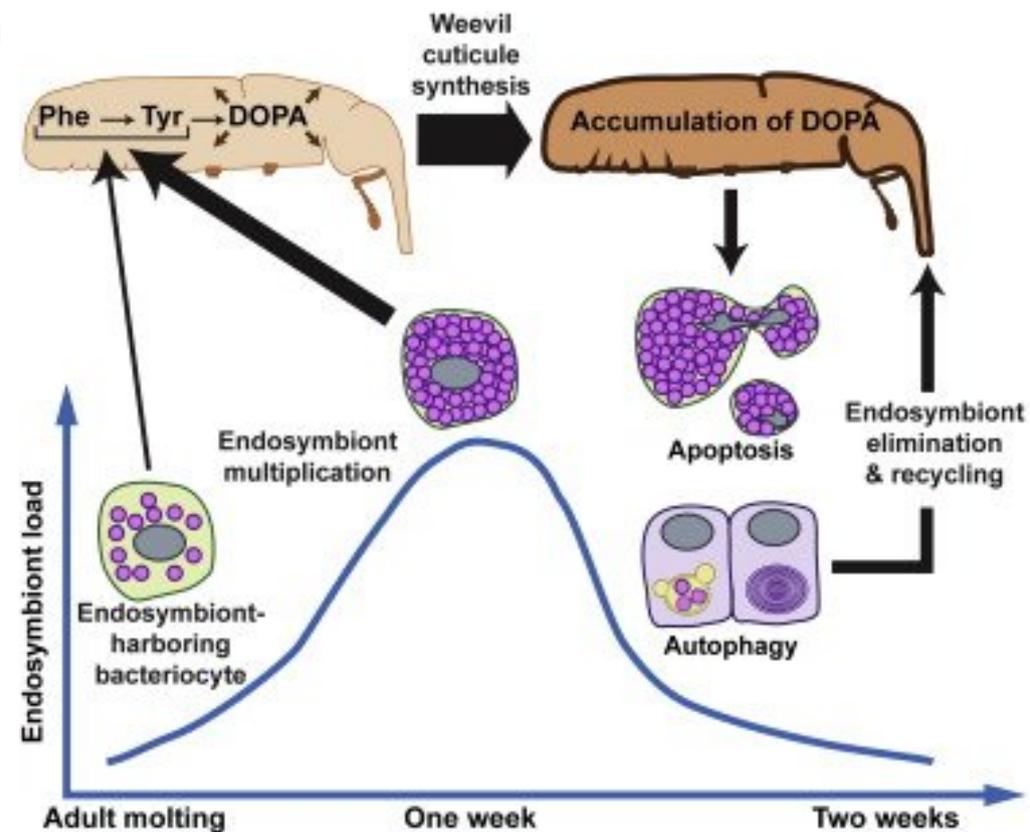
no **DHCR7**

no **SC5DL/ERG3**

Insects Recycle Endosymbionts when the Benefit Is Over

Aurélien Vigneron,^{1,2} Florent Masson,¹ Agnès Vallier,¹
Séverine Balmand,¹ Marjolaine Rey,¹
Carole Vincent-Monégat,¹ Emre Aksoy,¹
Etienne Aubailly-Giraud,¹ Anna Zaidman-Rémy,¹
and Abdelaziz Heddi^{1,*}

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Sympatric Speciation in a Bacterial Endosymbiont Results in Two Genomes with the Functionality of One

