





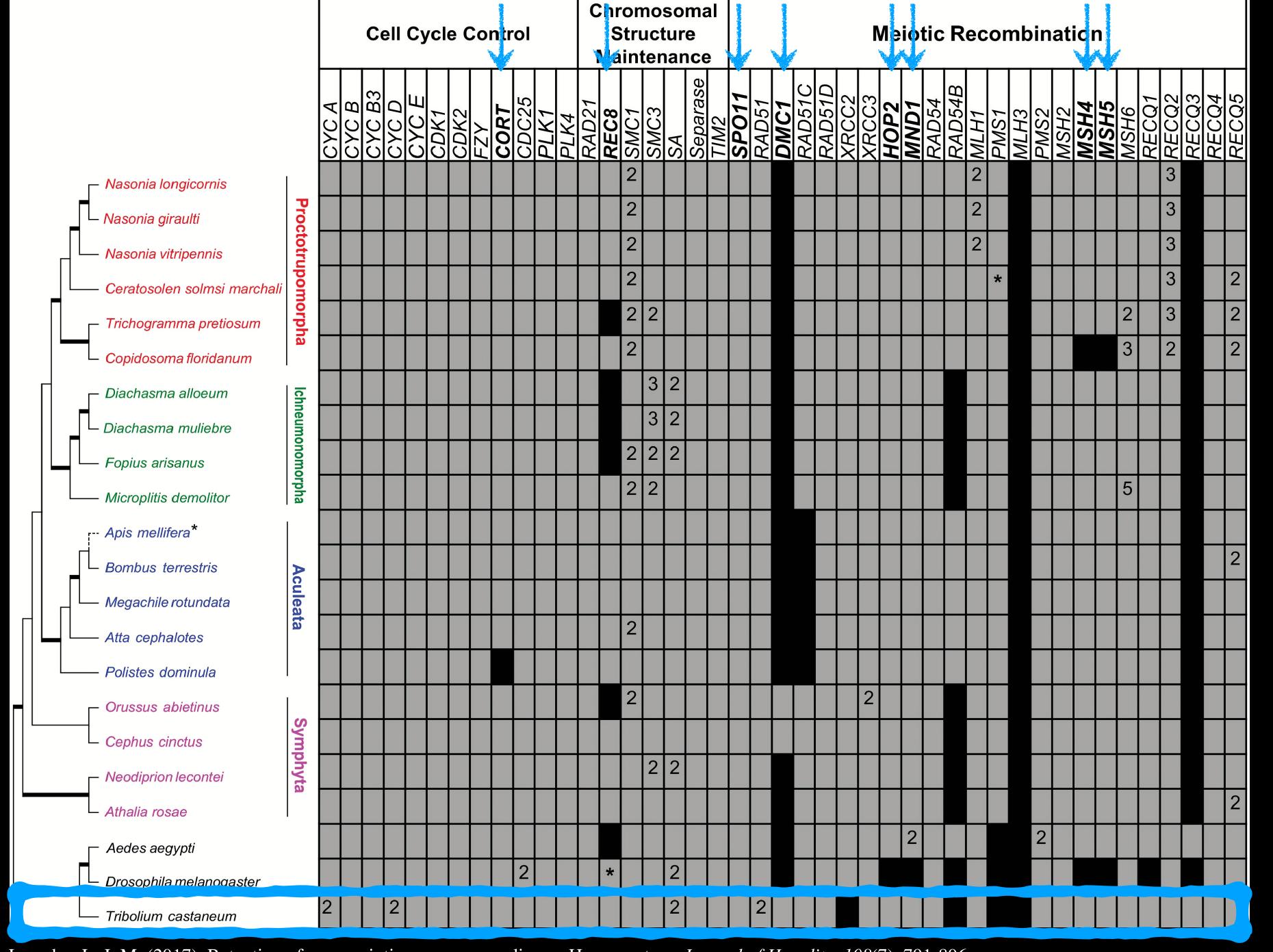
Present Number of copies

Absent









Present

copies

Absent

Number of

Tvedte, E. S., Forbes, A. A., & Logsdon Jr, J. M. (2017). Retention of core meiotic genes across diverse Hymenoptera. *Journal of Heredity*, 108(7), 791-806.

Progress Report What did I do last year?

- Lab Work and Data Analyses
 - Chapter 1 and Chapter 2
 - Bulk RNA-Seq of 20 samples and Data Analyses.
 - Analysis Pipeline development and testing.
 - Chapter 3
 - Figured out single cell preparation from *Tribolium castaneum* Testes.
 - scRNA-Seq and Preliminary data analyses.

- Writing/ Publications
 - Matthew N. B., Emily C., ...(many other authors..)..., <u>Balan R.</u>, Tommer S., John R. S., Daniel S., Allissa D., Ben B.RNAMunger: A toolset for public RNA-seq data analysis.F1000Research.(Submitted)
 - Drew R. Schield, ...(many other authors) ..., <u>Balan R.</u>, Jeffery P.Demuth, Esther Betran, Marc Tollis, Jesse M. Meik, Stephen P. Mackessy, and Todd A.Castoe. The origins and evolution of chromosomes, dosage compensation, and mechanisms underlying venom regulation in snakes. Genome Research. 29 (4): pp 590-601
 - Firneno, T.J. Jr., <u>Ramesh, B.</u>, Emery, A.H., Roelke, C.E., Fujita, M.K. (in prep). Characterization of the parotoid gland transcriptome to explore the evolution of synthesized chemical defenses in true toads (Bufonidae).
 - Firneno, T.J. Jr., <u>Ramesh, B.</u>, Fujita, M.K. (in prep). Exploring convergent evolution of cardiac glycoside biosynthesis between highly disparate taxa.
 - Balan R., Indumathi P., Gokhul V., Muthukumaran P., Yuvapriya S., Sathishkumar T.Extraction process optimization of flavonoid and in vitro amylase inhibitory effect of purified quercetin derivative from Amorphophallus paeoniifolius tubers. Journal of Applied Research on Medicinal and Aromatic Plants.(under revision) — UG