

Community: Journal table of contents highlights

published between 1st and last day of **APRIL** (in print *and* early access). **Finish it by May 12th**.

Please add everything as nested bullet-points.

CTRL-K for links

CTRL-SHIFT-V paste w/o format

Look at the table of content duties [here](#) (github)

- **[Am Nat](#)**
 - [The Relationship between Spatial Structure and the Maintenance of Diversity in Microbial Populations](#)
 - [Two-Year Bee, or Not Two-Year Bee? How Voltinism Is Affected by Temperature and Season Length in a High-Elevation Solitary Bee](#)
- **[Bioinformatics](#)**
- **[Cell](#)**
- **[Current Biology](#)**
 - [Joint evolution of asexuality and queen number in an ant](#)
 - [Feeling a Touch to the Hand on the Foot](#)
 - [Nanopore Formation in the Cuticle of an Insect Olfactory Sensillum](#)
 - [Aedes aegypti Mosquitoes Use Their Legs to Sense DEET on Contact](#)
- **[eLife](#)**
 - [A Mesozoic clown beetle myrmecophile \(Coleoptera: Histeridae\)](#)
 - [Analysis of the genomic architecture of a complex trait locus in hypertensive rat models links Tmem63c to kidney damage](#)
 - [Environmental heterogeneity can tip the population genetics of range expansions](#)
- **[Evolution](#)**
- **[GBE](#)**
 - [Sex chromosome turnover in moths of the diverse superfamily Gelechioidea](#)
- **[Genome Biol](#)**
 - [Whole-genome sequence analysis of a Pan African set of samples reveals archaic gene flow from an extinct basal population of modern humans into sub-Saharan populations](#)
 - [BRB-seq: ultra-affordable high-throughput transcriptomics enabled by bulk RNA barcoding and sequencing](#)
 - [Machine learning and complex biological data](#)
 - [Molecular evolutionary trends and feeding ecology diversification in the Hemiptera, anchored by the milkweed bug genome](#)
 - [Measuring sequencer size bias using REcount: a novel method for highly accurate Illumina sequencing-based quantification](#)
- **[Genome Res](#)**
- **[Insectes Sociaux](#)**
 - [To leave or to stay: direct fitness through natural nest foundation in a primitively eusocial wasp](#) Brahma et al <https://doi.org/10.1007/s00040-019-00702-2> A neat study of interactions and direct fitness in *Ropalidia marginata* with a new observational lab set-up. Dominance

before nest-foundation is associated with egg-layer role. There is room for plasticity of role and location, as seen in drifters who feed both parent and new nest.

- **[Journal of Evolutionary Biology](#)**
 - [Evolutionary transition between bee- and hummingbird-pollination in *Salvia*: comparing means, variances and covariances of corolla traits](#)
 - [No mate preference associated with the supergene controlling social organization in Alpine silver ants](#)
- **[MBE](#)**
- **[Mol Ecol](#)**
- **[Myrmecological News](#)**
 - [A simple and efficient method for preventing ant escape \(Hymenoptera: Formicidae\)](#)
 - [Evolution of dispersal in ants \(Hymenoptera: Formicidae\): A review on the dispersal strategies of sessile superorganisms](#)
- **[Nature](#)**
 - [Genetic compensation triggered by mutant mRNA degradation](#)
 - [Attachment of the blastoderm to the vitelline envelope affects gastrulation of insects](#)
 - [The many and diverse roles of a research scientist](#)
- **[Nature Comms](#)**
 - [Comparative transcriptomics of social insect queen pheromones](#)
 - [Meta-analysis reveals that pollinator functional diversity and abundance enhance crop pollination and yield](#)
 - [Widespread losses of pollinating insects in Britain](#)
 - [Molecular evidence supports a genic capture resolution of the lek paradox](#)
 - [Staged developmental mapping and X chromosome transcriptional dynamics during mouse spermatogenesis](#)
 - [A Hox-TALE regulatory circuit for neural crest patterning is conserved across vertebrates](#)
 - [Whole genome sequencing of canids reveals genomic regions under selection and variants influencing morphology](#)
- **[Nature Genetics](#)**
 - [Transposable elements drive widespread expression of oncogenes in human cancers](#)
- **[Nature Methods](#)**
- **[Plos Biol](#)**
- **[Plos Comp Biol](#)**
 - [A quick guide for student-driven community genome annotation](#)
 - [Ten simple rules towards healthier research labs](#)
 - [Ten quick tips for creating an effective lesson](#)
 - [The intrinsic dimension of protein sequence evolution](#)
 - [Stytra: An open-source, integrated system for stimulation, tracking and closed-loop behavioral experiments](#)
 - [Gene set meta-analysis with Quantitative Set Analysis for Gene Expression \(QuSAGE\)](#)
- **[Plos Genet](#)**
- **[PNAS](#)**
 - [Sexual conflict drives male manipulation of female postmating responses in *Drosophila melanogaster*](#)
 - [Transposable elements drive rapid phenotypic variation in *Capsella rubella*](#)
- **[Proc B](#)**
- **[Science](#)**
 - [Rapid plant evolution driven by the interaction of pollination and herbivory](#)
 - [The NASA Twins Study: A multidimensional analysis of a year-long human spaceflight](#)
 - [Convergent regulatory evolution and loss of flight in paleognathous birds](#)
 - [Small peptide-mediated self-recognition prevents cannibalism in predatory nematodes](#)

- [TREE](#)
- [Trends in Genetics](#)
 - [Consequences of Genomic Diversification Induced by Segregation Errors](#)
 - [Diversity and Determinants of Meiotic Recombination Landscapes](#)
 - [The Promise of Paleogenomics Beyond Our Own Species](#)

[1]. **Other papers/tools that you feel someone should have seen:**

- Nature Ecology and Evolution
 - [Dynamic evolutionary history and gene content of sex chromosomes across diverse songbirds](#)
 - [Experimental evidence of frequency-dependent selection on group behaviour](#)
- Scientific Reports
 - [Different bacterial and viral pathogens trigger distinct immune responses in a globally invasive ant](#)
- Genetics
 - [Pervasive Linked Selection and Intermediate-Frequency Alleles Are Implicated in an Evolve-and-Resequencing Experiment of *Drosophila simulans*](#)
- BioRxiv
 - [VARUS: Sampling complementary RNA reads from the Sequence Read Archive](#)
 - [KofamKOALA: KEGG ortholog assignment based on profile HMM and adaptive score threshold](#)
- Nucleic Acids Research
 - [AnnoTree: visualization and exploration of a functionally annotated microbial tree of life](#)
- Biological Journal
- Ecology & Evolution
- Genetics
- Heredity
- Aging
- Mol Cell Biol
- J Gerontol
- Methods in Ecology and Evolution
- Current Opinion in Insect Science
 - [Pathogens and disease defense of invasive ants](#)
 - [Conflict and major transitions – Why we need true queens](#)
 - [Social-medication in bees: the line between individual and social regulation](#)
- Zookeys