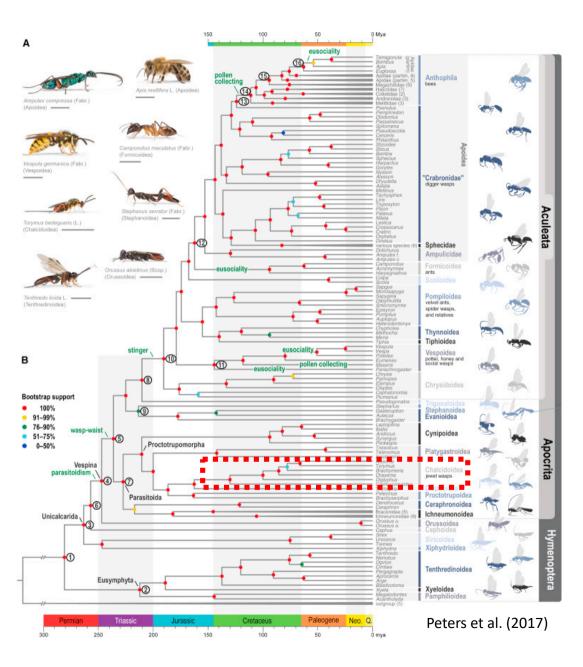
Who am I ? what am I doing ?

- INRA Director of Research
 Lab CBGP Montpellier
 Entomologist
- Taxonomist of chalcid wasps and fig trees
- Phylogeneticist of insects (Carabid, moths, chalcids)
- Projects on phylogenomic of Chalcids, Bark beetles, Sphingid & Saturniid moths, Carabids
- Biology & ecology of Xylella fastidiosa vectors



https://www.researchgate.net/profile/Jean-Yves_Rasplus

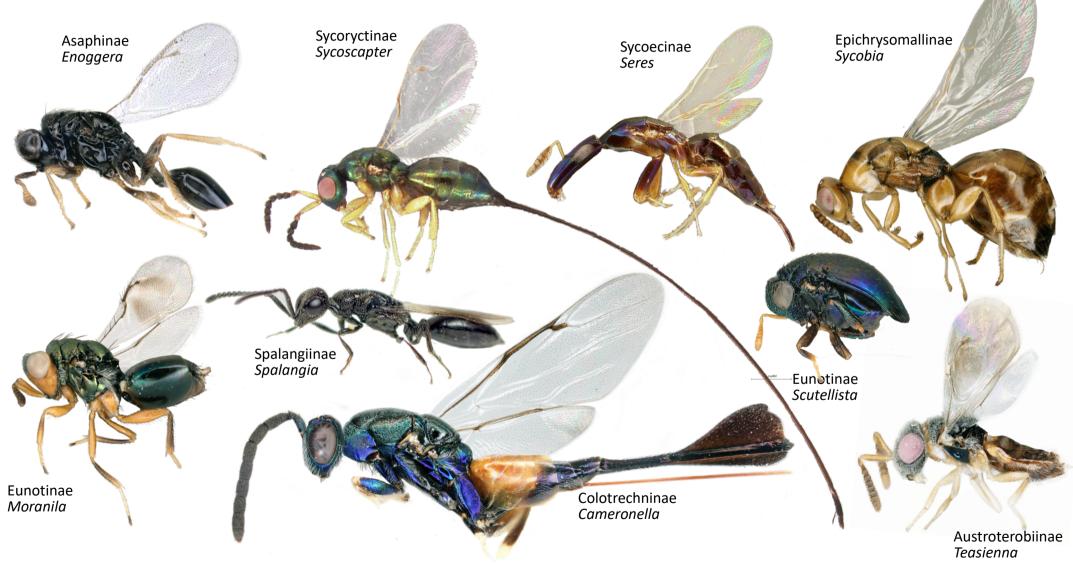




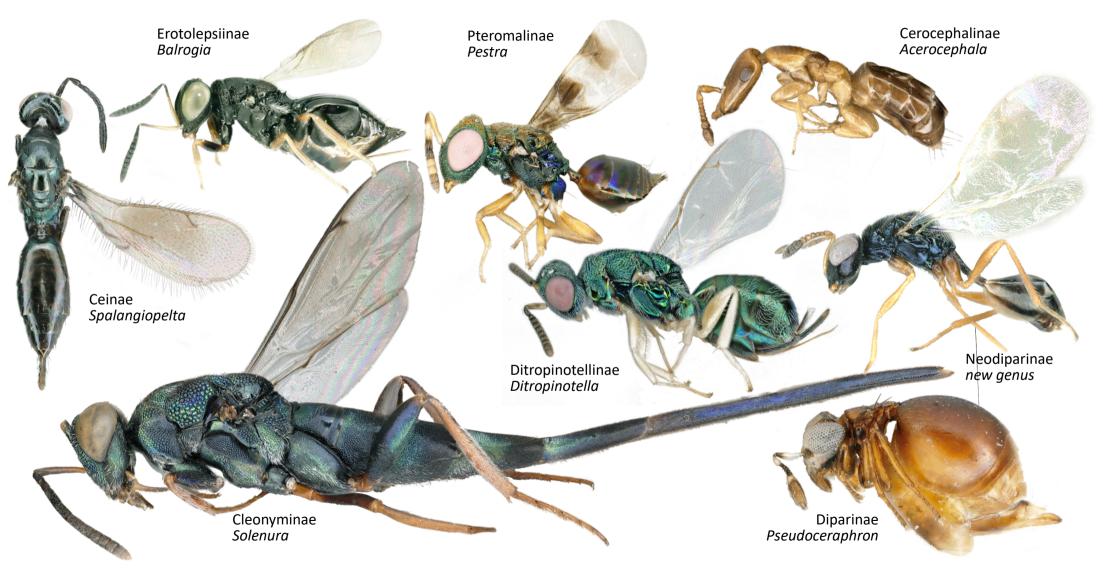
Superfamily Chalcidoidea

- One of the superfamilies of parasitic wasps
- One of the megadiverse groups of insects
- estimates +500000 species, of which #24 000 described
- > 23 families (for the time being), ca 2100 genera
- Huge morphological disparity
- Classification highly unstable
- Spectacular radiation in a relatively short time
- Oldest fossils in Cretaceous amber deposits, ca 100 Ma
- range in size from 0.13 mm to 20 mm
- Convergent morphology is also rampant
- Parasitic in eggs, larvae and adults of most insect orders
- one of the most important groups for biological control of other insects
- Hyperparasitic or phytophagous, gall makers
- Poor phylogenetic hypotheses (morphology, SANGER sequencing)

Pteromalids, huge diversity and disparity



Pteromalids, huge diversity and disparity



Our main aims ...

- Resolve higher-level relationships within Chalcidoidea, by including members of all major lineages
- Compare that phylogeny to two others based on Anchored Elements and transcriptomes presently built at Riverside (J. Heraty's lab) and Bonn (R. Peters)
- Propose a refined classification system for chalcid wasps
- Reconstruct the origins and evolution of this hyperdiverse group and its main families
- Investigate the timing and patterns of diversification of chalcids wasps and compare these against patterns of diversity changes in their hosts

