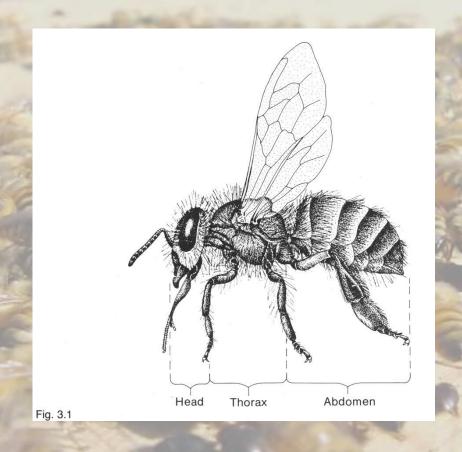
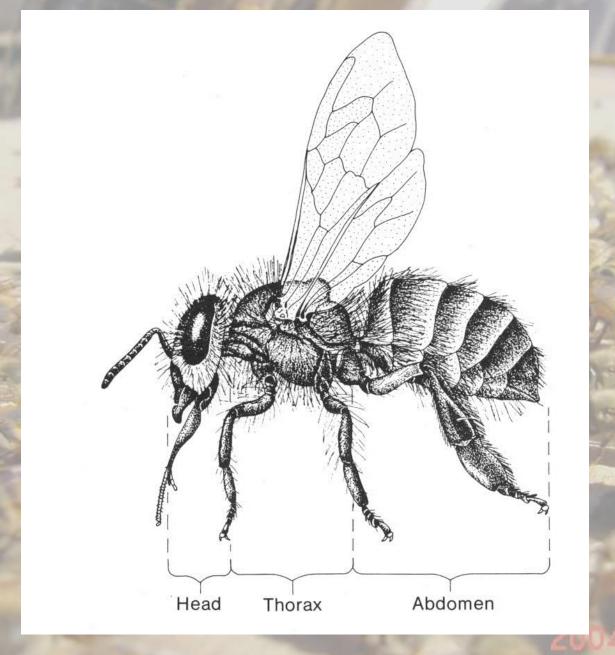
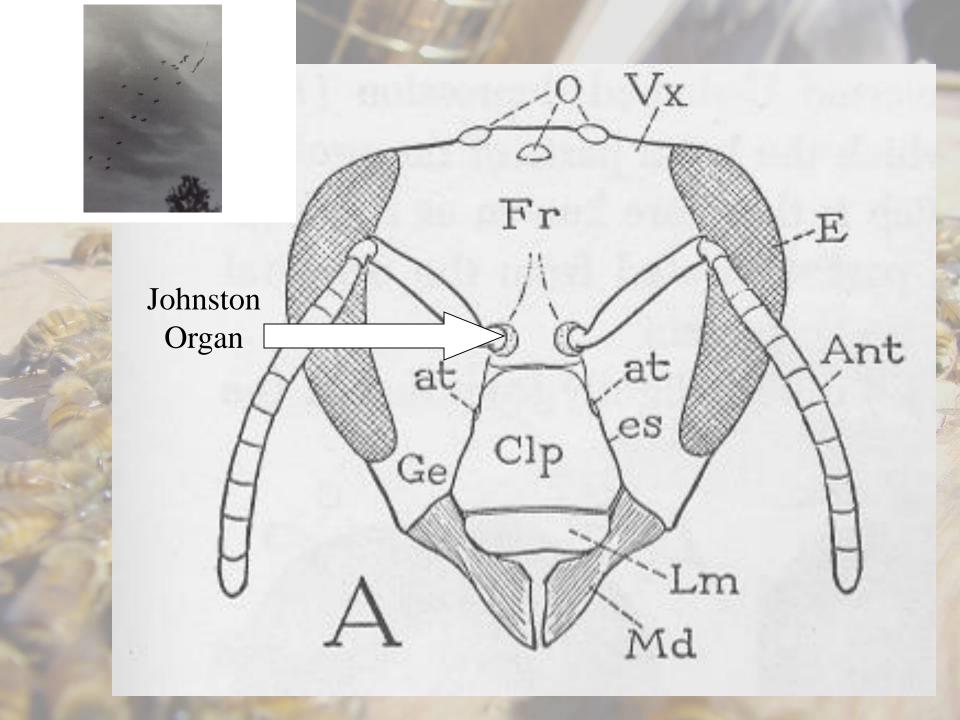
Honey bee biology



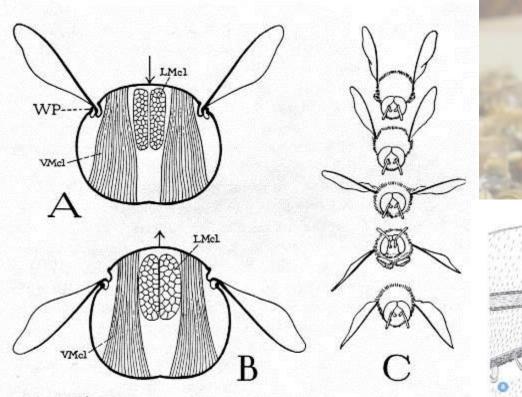
Jamie Ellis, PhD – jdellis@ufl.edu
Honey Bee Research and Extension Laboratory
University of Florida



Epidermis + cuticle = integument



The fore and hind wings are held together with little hooks called hamuli



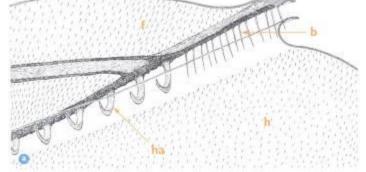
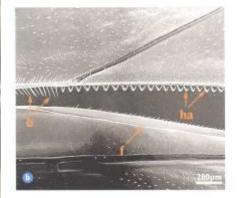
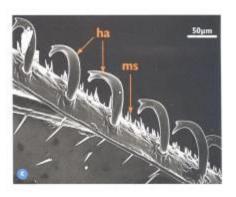


Fig. 44. The wing movements.



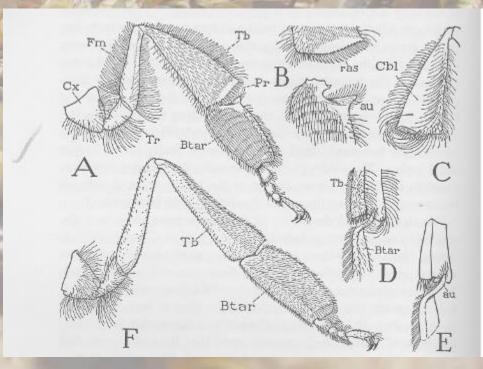


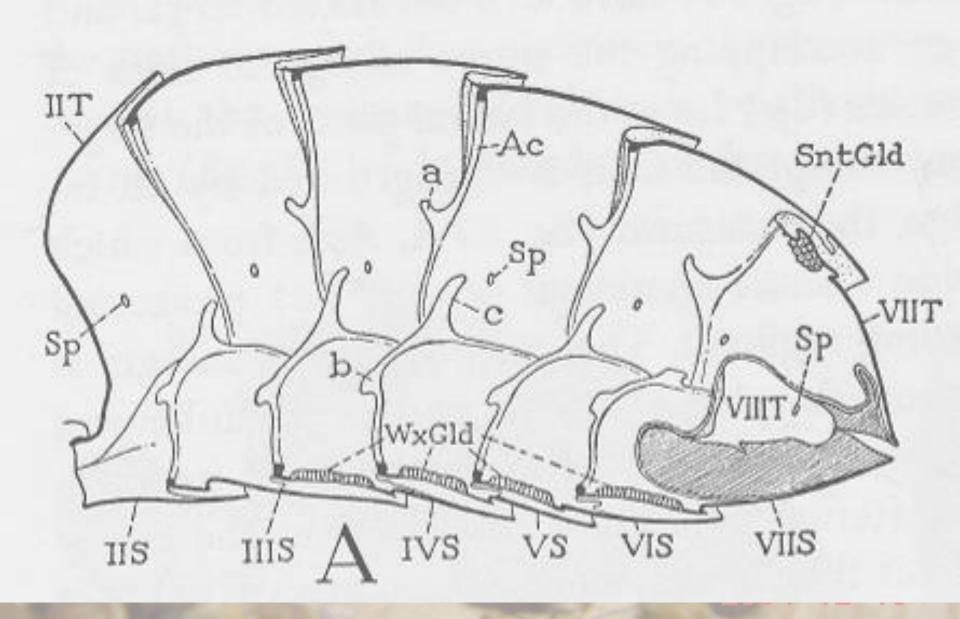


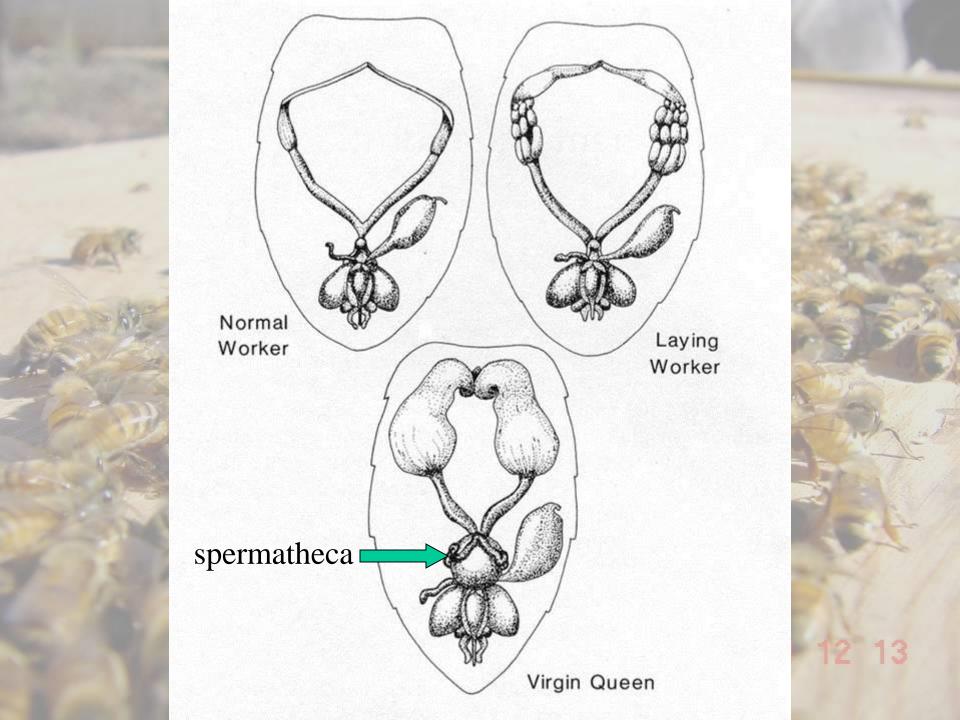


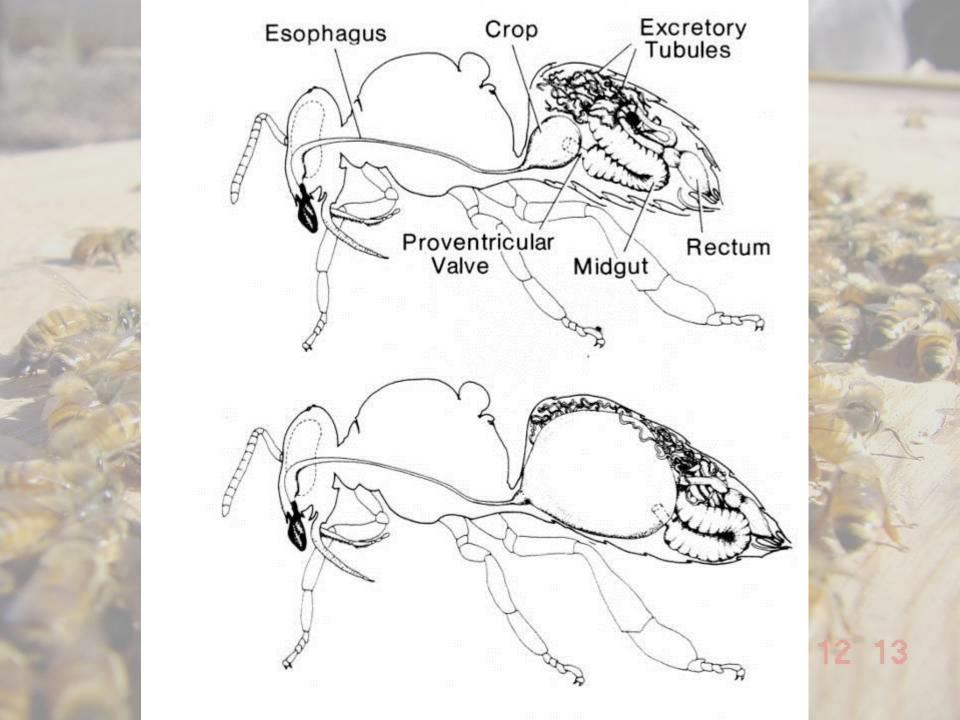
Honey bee hairs are branched

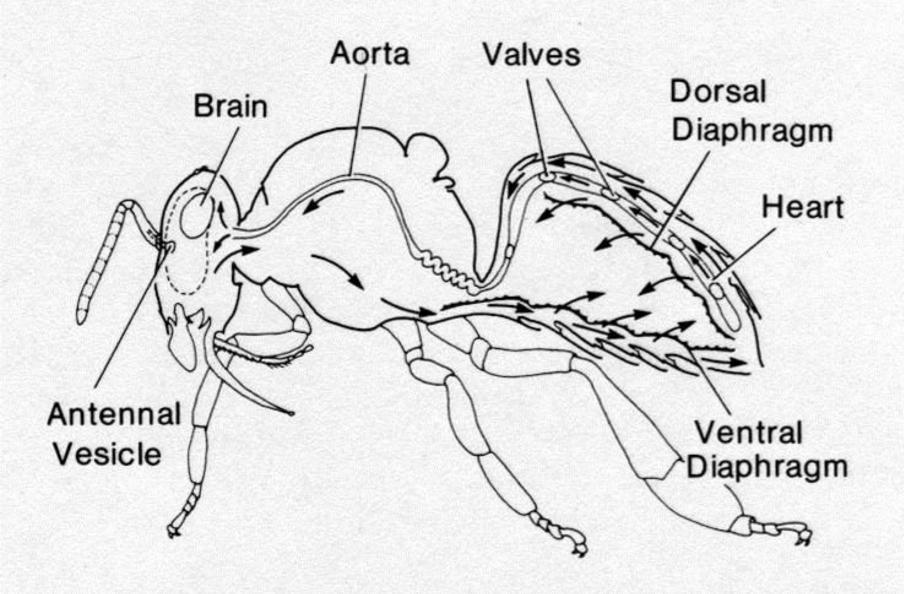
corbiculum opposed to scopa

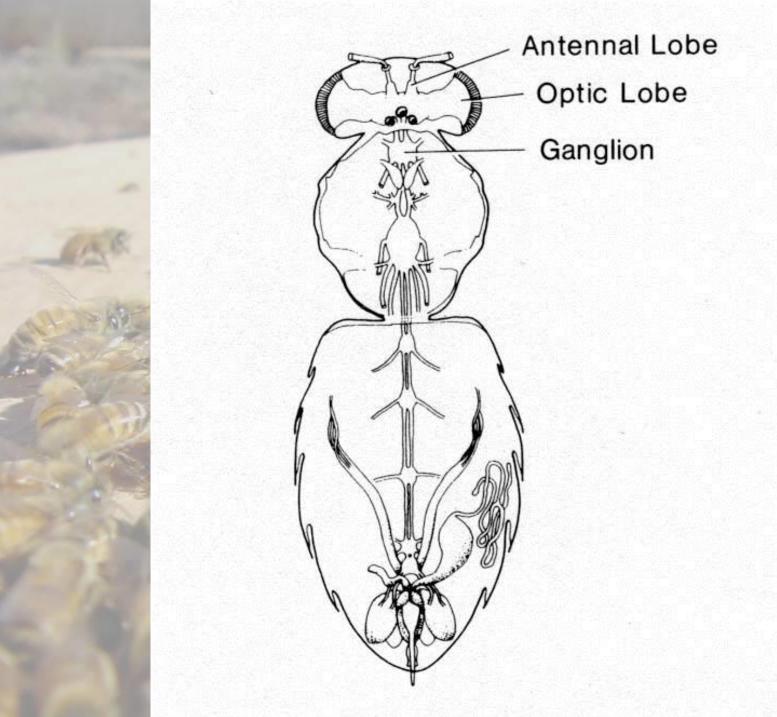




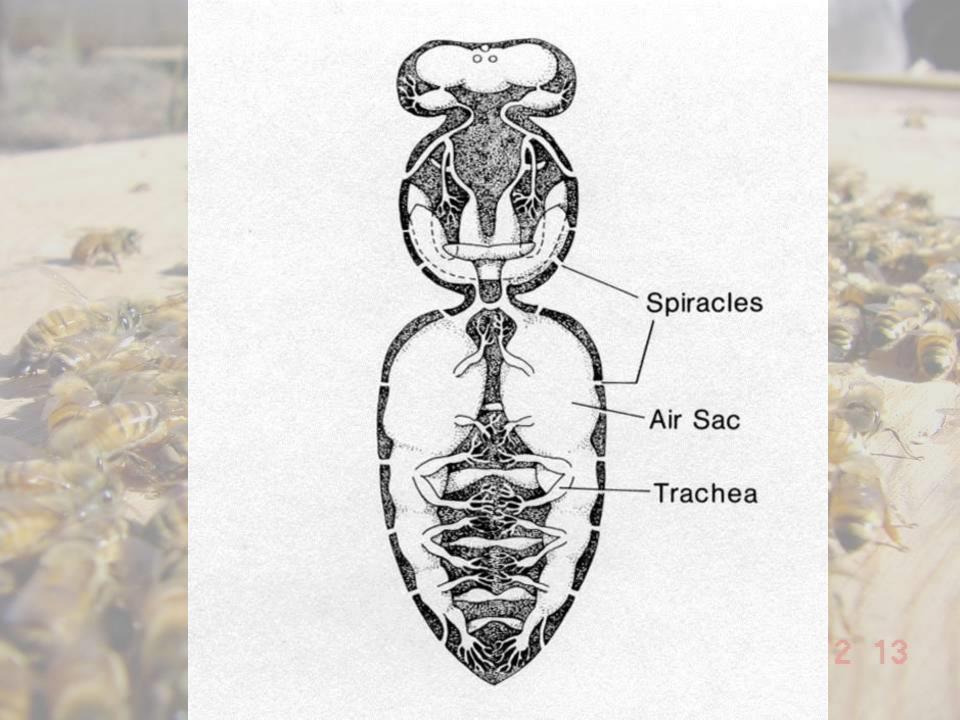


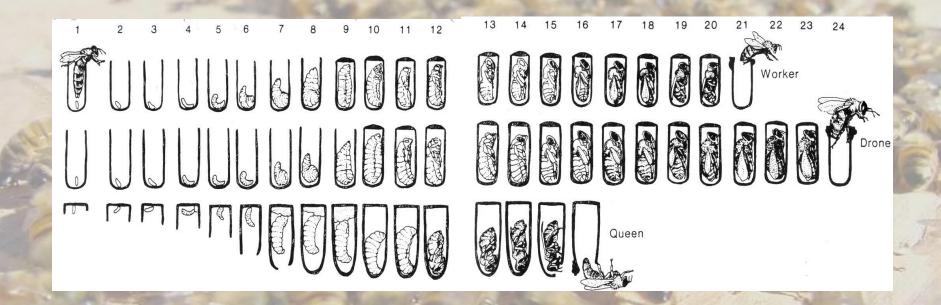












Complete metamorphosis, development times differ





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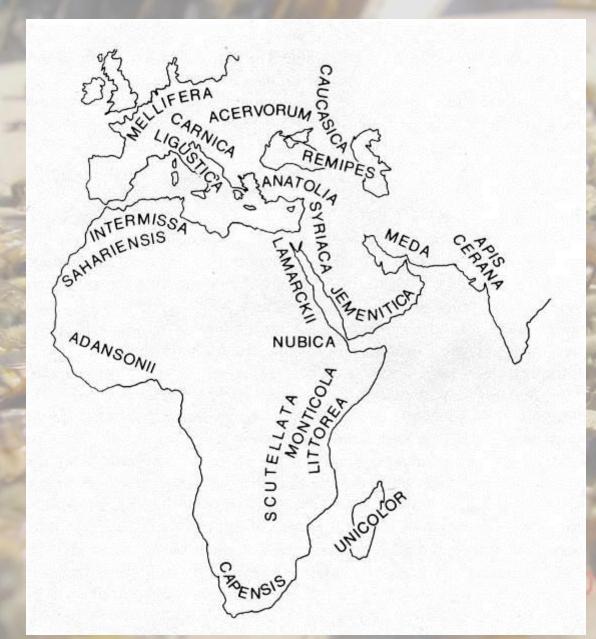








Apis mellifera spp.





AS A BEE AGES . . .

