



# Karyotypes of Parasitic Hymenoptera

*Vladimir E. Gokhman*

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## **Karyotypes of Parasitic Hymenoptera** Vladimir E. Gokhman

Not so long ago, karyology was considered a vanguard biological discipline, which could solve nearly all problems of systematics and phylogenetics. We liked to believe in the bright future, in a magician who will appear like a Jack-in-the-box and reveal the truth to us. However, excessive hopes related to the chromosomal study came true only in part. In the meantime, new candidates claimed the place of the magician, i. e. phenetics succeeded by cladistics and now by molecular methods in systematics and phylogeny. Nevertheless, it becomes progressively more obvious nowadays that cladistics is just a bright envelope for the fairly primitive and theoretically vulnerable approach that deprives living organisms and their groups of the traces of integrity and reduces them to the plain sum of characters. Modern molecular techniques look more perceptive and may yield more reliable results, although the details are sometimes embarrassing, and comparison with the fossil record does not necessarily reveal their superiority over cladistics. These methods are accessible by research teams with massive funding and good equipment and this strongly decreases the range and diversity of the material studied. However, classifications are often created by individual systematists with the restricted access to molecular methods. In this context, karyological techniques are in the preferable position, although they certainly do not provide direct and immaculate markers of taxonomic and phylogenetic relationships: chromosomal study is a morphological method with all its advantages and drawbacks.

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