

ÜBER DIE MORPHOLOGISCHEN BEZIEHUNGEN DER GATTUNG MYRMICA ZU IHREN SATELLITEN GENERA SIFOLINIA EM., SYM- BIOMYRMA ARNOLDI UND SOMMIMYRMA MENOZZI (HYMEN- OPTERA, FORMICIDAE)

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Step by step the code-diagnoses show a tendency towards increasing degenerative changes of morphology. Despite of this, the relationship of satellite genera to the parent genus *Myrmica* is never hidden entirely. That is why the term *satellite genus* is used for the relationship of *Sifolinia* and *Sommimyrma* with *Myrmica*, supposing these to be phylogenetic descendant of the latter.

The tendency towards degenerative, morphological changes is materialized e.g. by the reduction of the number of funicular joints, the wing venation, by the increasing rate of loss of tibial spurs II and III, and by the reduction of the spines. Instead the following developments take place: widening of postpetiolus and antennal club (*Sommimyrma!*), and the ventral appendages of the abdominal pedicel, which apparently are of no biological significance.

This taxonomic-morphological paper has preliminary character only. Many problems need much more investigation, such as:

1. Comparative studies of males. Some work on these, including many illustrations, has already been done.

2. Investigations on the variability of the spurs II and III of as many forms as possible, of the wing venation, hairs, sculpture, etc. Many data are available in this connection, which show that even genera are not clearly separable as is the case for many species. Therefore the old problem of species splitting appears at the generic level as well.

I. EINLEITUNG

Verfügbares Material:

1. *Sifolinia laurae* EM. ♀ Holotypus Generis aus Siena,
2. *Sifolinia lemasnei* (BERNARD) ♀♂ und ♂♂ vom Col de l'Ouillat P. O.,
3. *Sifolinia pechi* SAMSINAK ♀ aus Polen (leg. et det. PISARSKI),
4. *Sifolinia laurae* (YARROW) ♀♀ und ♂♂ aus England.
5. *Sifolinia winterae* KUTTER ♀ Holotypus aus Schwyz, ♂ (Allotypus) aus Nax Wallis.
6. *Symbiomyrma karawajewi* ARNOLDI ♀ und ♂ aus den UdSSR und CSSR.

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