

10th International Symposium on Syrphidae
Lesvos Greece
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PROGRAMME
&
BOOK OF ABSTRACTS



MYTILENE 2019



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MtDNA COI barcode variability of species of subgenus *Taeniocheilosia* (Syrphidae: *Cheilosia*)

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MtDNA COI barcodes were generated for about 90 specimens of genus *Cheilosia* subgenus *Taeniocheilosia* obtained during recent fieldwork in Central Europe, Finland, Balkan region and Asia Minor. The dataset comprised more than 20 presently recognized species. The sequences were clustered using Neighbor-Joining under the K2P model, using *Cheilosia albipila* (*Cheilosia* s.str.) as root. The majority of the *Taeniocheilosia* species were resolved as discrete sequence clusters (clades), with interspecific divergences greater than intraspecific. Several morphologically close species, however, show very low interspecific divergences (<1%). A few cases of unexpectedly high divergences were also evident which could indicate presence of morphologically cryptic species.