

STRESZCZENIE W JĘZYKU ANGIELSKIM

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SUMMARY

Limoniidae SPEISER, 1909, family of flies where the genus *Rhabdomastix* SKUSE, 1890 is classified, are known from Triassic. The oldest evidences on the occurrence of Limoniidae from genus *Rhabdomastix* comes from Cretaceous period.

Since 2003, reach in species genus *Rhabdomastix*, was divided by STARÝ into two subgenera *Lurdia* STARÝ, 2003 and *Rhabdomastix* SKUSE, 1890 including extinct and extant forms. Numerous species were unclassified to subgenus.

During the research carried out as part of this doctoral thesis, two new subgenera were indicated. The only extinct forms belongs to one of them, the second one include extinct and extant forms. Seventeen new fossil species were described. Additional descriptions of the already six known fossil species of *Rhabdomastix* were presented. In result fifteen new nomenclatural combinations were presented. Taxonomical decisions to conclude in newly described subgenera two new fossil and six extant species species of genus *Rhabdomastix* were conducted. Eight known earlier fossil species with unexplained taxonomical position were classified to subgenus *Rhabdomastix*.

Comparative studies of fossil and modern *Rhabdomastix* performer with the use of scanning electron microscopy and microtomography enabled the identification of taxonomically significant features of morphological structures in fossil materials.