МИКОЛОГИЯ И ФИТОПАТОЛОГИЯ

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Pupperset and Nectria ВАСИЛЬЕВА Л. Н. CAMAROPS PUGILLUS (SCHW. : FR.) SHEAR НА РОССИЙСКОМ ДАЛЬНЕМ ВОСТОКЕ

For a century and a half, Camarops pugillus was known only from the North America. Nannfeldt (1972 : 358-359) has described this situation as follows: «C. pugillus in contrast to the four European species is small, inconspicuous and easily overlooked, it must be very rare, for Schweinitz' finds (from North Carolina and Pennsylvania - L. V.) remained the only ones, until Shear in 1940 published it from Virginia and Tennessee. No further finds have become known until now, when I can add localities in New York and Massachusetts. The known geographical distribution remains thus very restricted, but it is of course much too early to decide whether this picture is true».

Indeed, the geographical distribution of this species turned rather wide because it was found in Europe too. The first find from Czechoslovakia (material in UPS, leg. Pouzar, det. Nannfeldt) was unpublished, while the second one from Sweden was discussed and well illustrated by Lundqvist (1987). Recently, several specimens of C. pugillus in excellent condition were collected by Scheuer in Austria (Vasilyeva, Scheuer, 1996, in press).

At present, the enormous terrestrial «gap» between Europe and North America in the distribution of C. pugillus was filled by the discovery of the latter in the Russian Far East (reserve Sikhote-Alin). This species must be included into the monograph on pyrenomycetes and loculoascomycetes of the region, but the arrangement of taxa in that book is underlaid by the newly elaborated system (Vasilyeva, 1994) where Camarops is recognized to be a heterogenous complex whose species belong to several different genera within the Diatrypaceae (Vasilyeva, 1988) or even in different families: the latter concerns Camarops lutea (Alb. et Schw. : Fr.) Nannf. which was shifted to the new genus Chromendothia of the Hypocreaceae (Vasilyeva, 1993). Camarops members were united into a single genus on the basis of strikingly uniform microscopic features. All of them have «the small cylindrical asci with thin, early deliquescent walls and no visible apical apparatus» and «the very small, flattened, straight, one-celled and brown-walled ascospores with a minute terminal germ pore» (Nannfeldt, 1972 : 335).

There is no doubt that most of Camarops species are closely related and should be placed near each other in any system. However, it is not quite clear why they are arranged within a single genus. Nobody unites genera of the Diatrypaceae which differ in stromatal characteristics only because they have the same ascospore type. The same is true for the members of the Xylariaceae including many genera with similar

The diversity of stromata within Camarops is not less than in the Diatrypaceae and the Xylariaceae. Thus, Camarops polysperma (Mont.) J. H. Miller reminds of Biscogniauxia; C. tubulina (Alb. et Schw. : Fr.) Shear is somewhat similar to Ustulina; C. spathulata (Berk. et. Br.) Nannf. has stromata which are typical for Xylaria; C. petersii (Berk. et Curt.) Nannf. with its massive cushion-like stromata may be compared with C. polysperma in the same respect as Daldinia with Hypoxylon within

Camarops microspora (P. Karst.) Shear represents a lopadostomoid type of stromata, at least in comparison with Lopadostoma gastrinum (Fr.) Trav. while C. pugillus has quite peculiar stromata combining eutypoid (because they develop within a wood) and eutypelloid or valsoid forms: it is the most unique stromatal type which is not observed in any other pyrenomycetous family.

The above parallelism in stromatal characters between different families is not rare at all. Thus, Rogers (1979 : 26) wrote that «the Hypocreales have evolved in parallel with the Xylariaceae: almost any gross morphological combination of perithecial-stromatal structures found in the Xylariaceae can be recognized in the Hypocreales. For example, Hypocrea and Nectria are hypocrealean equivalents of Hypoxylon; Podostroma is the hypocrealean counterpart of Xylaria».

The same is true for the parallel evolution of the Xylariaceae and the Boliniaceae (if the latter to be treated separately from the Diatrypaceae). Thus, this family displays a considerable generic diversity instead of being treated as monotypic one. Of course, the situation with a monotypic family is replaced by the equally unpleasant situation with a number of monotypic genera (Camarops, Bolinia, Peridoxylon, etc.), but not all segregated genera will be monotypic. For example, Camarops rostratus Romero et Samuels (1991) may be assigned to the genus which is now described for C. pugillus:

Camaropella gen. nov.

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Perithecia gregaria, ligno immersa, colli cylindracei, saepe concrescentes, erumpentes. Asci fasciculati, paraphysati, cylindracei. Ascosporae uniseriatae, unicellulae, ellipsoideae, minutae, dilute coloratae.

Typus: Camaropella pugillus (Schw. : Fr.) comb. nov.

Genus Eutypella habitu partim similis, sed ascosporis nonallantoideis differt.

1. Camaropella pugillus (Schw. : Fr.) comb. nov. - Sphaeria pugillus Schw., Schrift. Nat. Ges. Leipzig, 1 : 38, 1822. - S. pugillus Schw. : Fr., Syst. Mycol., 2 : 383, 1823. - Valsa pugillus (Schw. : Fr.) Curt., Geol. Nat. Hist. Surv. North Carol., 3: 142, 1867. — Camarops pugillus (Schw. : Fr.) Shear, Mycologia, 32: 549,

Perithecia immersed in wood, erumpent with crowded cylindrical beaks which may

be confluent. Asci in paraphysate fascicles, cylindrical, p. sp. 35-40 × 3.7-4.5 micr., stalks up to 12.5-16.2 micr. Ascospores uniseriate, unicellular, ellipsoid, brownish, 5-6.2×2.5-3 micr. Distribution: Europe, Asia, North America.

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РЕЗЮМЕ

В связи с обнаружением Camarops pugillus (Schw. : Fr.) Shear в одном из заповедников российского Дальнего Востока и необходимостью включить эту находку в монографическую обработку пиреномицетов этого региона обсуждается систематическое положение данного вида, для которого предлагаются новый род *Camaropella* и новая комбинация *C. pugillus* (Schw. : Fr.) comb. nov.

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