

Teleomorph-anamorph connections in Ascomycetes.
1. *Cylindrotrichum* and *Cacumisporium* anamorphs of
Chaetosphaeria

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Réblová M. and Gams W. (1999): Teleomorph-anamorph connections in Ascomycetes 1. *Cylindrotrichum* and *Cacumisporium* anamorphs of *Chaetosphaeria*. – *Czech Mycol.* 51: 1–40

The teleomorph-anamorph connections of *Chaetosphaeria* are discussed. On the basis of the revision of the type and other herbarium material, *Zignoëlla crustacea*, *Lasiosphaeria britzelmayeri* subsp. *fennica*, *Sphaeria decastyla* and *Melanomma macrosporium* proved to be members of *Chaetosphaeria*. The new combinations *Chaetosphaeria crustacea*, *Chaet. fennica* and *Chaet. decastyla*, are proposed, *Melanomma macrosporium* is included in the synonymy of the latter. *Chaetosphaeria crustacea* has an anamorph intermediate between *Chloridium* and *Cylindrotrichum*, *Chaetosphaeria fennica* has a *Chloridium*-like anamorph, and *Chaetosphaeria decastyla* has *Cacumisporium capitulatum* as its anamorph. Two new species, *Chaetosphaeria tulasneorum* associated with the anamorph *Cylindrotrichum oligospermum* and *Chaetosphaeria acutata* associated with a *Cylindrotrichum* anamorph, are described. The teleomorph-anamorph connections of all accepted *Chaetosphaeria* species, except for *Chaet. fennica*, were confirmed by culture studies. *Chaetosphaeria abietis* and *Chaet. fusiformis* are also considered, and the connection with the *Chloridium cylindrosporium* anamorph of the latter is confirmed by culture studies for the first time. The genus *Cylindrotrichum* and its relationship to *Chloridium* and other related genera is discussed. A key to the species of *Chaetosphaeria* with *Cylindrotrichum* and *Cacumisporium* anamorphs is provided.

Key words: Ascomycetes, *Chaetosphaeria*, culture studies, wood-inhabiting fungi, systematics.

Réblová M. and Gams W. (1999): Vztahy teleomorfa-anamorfa u askomycetů 1. *Cylindrotrichum* a *Cacumisporium*, anamorfní rody rodu *Chaetosphaeria*. – *Czech Mycol.* 51: 1–40

Jsou diskutovány teleomorfni-anamorfni vztahy rodu *Chaetosphaeria*. Na základě revize typového a dalšího herbářového materiálu jsou druhy *Zignoëlla crustacea*, *Lasiosphaeria britzelmayeri* subsp. *fennica*, *Sphaeria decastyla* a *Melanomma macrosporium* umístěny do rodu *Chaetosphaeria*. Jsou navrženy tři nové kombinace, a to *Chaetosphaeria crustacea*, *Chaet. fennica* a *Chaet. decastyla*. *Melanomma macrosporium* je zařazena do synonymiky druhu *Chaet. decastyla*. Rodové zařazení anamorfy druhů *Chaetosphaeria crustacea* a *Chaet. fennica* je na pomezí rodů *Cylindrotrichum* a *Chloridium*. Anamorfou *Chaetosphaeria decastyla* je *Cacumisporium capitulatum*. Jsou popsány dva nové druhy, *Chaetosphaeria tulasneorum* s anamorfou

Cylindrotrichum oligospermum a *Chaetosphaeria acutata* s anamorfoou *Cylindrotrichum* sp. Teleomorfní-anamorfní vztahy všech výše uvedených druhů rodu *Chaetosphaeria* byly ověřeny kultivačními studiiemi. Jsou zahrnuty také druhy *Chaetosphaeria abietis* a *Chaet. fusiformis*. Spojení *Chaet. fusiformis* s anamorfoou *Chloridium cylindrosporum* je poprvé potvrzeno kultivačními studiiemi. Jsou diskutovány vztahy rodu *Cylindrotrichum* s rodem *Chloridium* a dalšími příbuznými rody. Je vytvořen klíč pro určování druhů *Chaetosphaeria* s anamorfami *Cylindrotrichum* a *Cacumisporium*.