

Studies of Representatives of the Novel Red and Black Lingzhi from Vietnam

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Basidiospores of *H. longipes* typically haddowoid, globose - subglobose to ellipsoid, not truncate, bitunicate. Exospore strongly thickened, with clearly thick pilar layer of interwalls; Endospore with rather prominent apiculus, punctate - reticulate, splitting along with the exospore longitudinally into ridges, partly connected by transverse membranes. So high similarity in macro- and micromorphological features, particularly specific basidiospores double crested of this taxon suggest that there are some variants conspecific in *H. longipes*, pantropical taxon covers both subspecies or biogeographical races of unique *H. longipes*, including the second one named *H. aetii* as a variety and exclude some taxa as *H. guizhouense* and *H. neurosporum*.

Basing on morphological characters of fruit bodies there are controversial arguments on the treatments of taxonomy of a rare Black Lingzhi fungus *Magoderna subresinosum*, however, basidiospores ganodermoid type with germ pore (hyaline aperture - apex) and particularly the hilum as a fine verrucose tiny appendice located on the bottom, opposite to the apex, at which almost researchers seemed to glance at or neglect, and consider the amaurodermoid type, and consequently to treat acceptably yet. Setting the genus *Magoderna* accommodated 3 species Steyaert (1972) however, only the type *M. subresinosum* should be accepted and a new synonym *M. parasiticum* Corner suggested and retain two others as initially *Amauroderma infundibuliforme* and *A. vansteenesii*, as due to their basidiospores of typical amaurodermoid.

Data of rDNA analysis (sequences of ITS regions) and even multigenes led to distinctive monospecies genus with the type *H. longipes* and with exclusion of a case suggested from China and *M. subresinosum* due to its basidiospore type of haddowoid and ganodermoid as a special lineage of evolution grouped closest taxa *Tomophagus*, *Magoderna*, *Humphreya* and *Amauroderma* and speciated from the *Ganoderma* as a core in the *Ganodermataceae* Donk.