



BIOLOGY COLLOQUIUM

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Hosted by Dr Amy Choong

High undescribed diversity of the Boletaceae in Northern Thailand



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Boletaceae Chevall. is an important Basidiomycete family with a global distribution, the majority of which form ectomycorrhizal associations with trees. Most of them have been described from temperate regions, and relatively little research has been carried out on tropical boletes. They are, however, very diverse, as for example the porcini mushrooms (*Boletus sensu stricto*), for which the centre of diversity has been reported to be in eastern Asia (Feng et al. 2012). Moreover, tropical boletes have regularly challenged the classification of the Boletaceae, which has long been mostly based on temperate taxa. In the past decade, however, phylogenetic analyses based on multi-gene data sets have greatly improved our understanding of the systematics of the group, with many new genera being published.

Here, we briefly outline our research on Boletaceae from Northern Thailand, which highlights their high diversity, a significant part of which remains to be described. We give two examples: *Chromatophyllum*, gen. nov. (with two new species), and *Sutorius* (with 8 new species).