

Calostomal, a Polyene Pigment from the Gasteromycete *Calostoma cinnabarinum* (Boletales)

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The North American stalked puffball *Calostoma cinnabarinum* (Boletales) owes its red-orange colour to the heptaene pigment calostomal. Its structure has been determined by ^1H and ^{13}C NMR spectroscopy of the corresponding methyl ester as all-*trans*-16-oxohexadeca-2,4,6,8,10,12,14-heptaenoic acid (**1**). Neither pulvinic acids nor other typical Boletales pigments could be detected in this fungus. The structural relationship of **1** to other polyene pigments from fungi is discussed.

Key words: *Calostoma*, Boletales, Polyenes, Mushroom Pigments, Chemotaxonomy