

Research Article

Diversity of the *Ganoderma* Species from Rajasthan, India

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Abstract

Being rich in myco-diversity, the state of Rajasthan was yet unexplored for many forms of polypores. Many forms of polyporus fungi have been found to be growing in various localities in Rajasthan, India, colonising a wide range of substrates and interacting with a range of host plants. In the present study, twelve species of *Ganoderma* have been reported herein under the genus. Several different species varying with respect to morphological and anatomical characteristics have been found to be growing in Rajasthan and have been taxonomically described herein viz., *Ganoderma applanatum*, *G. australe*, *G. curtisii*, *G. dunense*, *G. lucidum* var. *capense*, *G. lucidum* var. *lucidum*, *G. lobatum*, *G. multicornum*, *G. phillipi*, *G. resinaceum*, *G. sessiliforme* and *G. stipitatum*. Extensive myco-explorations in novel areas yielded rich biodiversity of polypores and in the present study, out of the total twelve species recorded, eleven are new records to the state of Rajasthan.

Key words: Antioxidant, diversity, fungi, *Ganoderma*, polypores, saprophytic, spores, wood-rotting

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