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Comparative study on yield and nutritional aspect of *Pleurotus eous* mushroom cultivated on different substrate

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ABSTRACT

Pleurotus eous was grown on different agro wastes viz., soybean, paddy, wheat, Jowar, Bajra, tur and sunflower straw to study the effect of these agro waste on yield, bio-efficiency and proximate composition of mushroom, *P. eous* on paddy straw showed significantly maximum stipe weight (1.10 g), Ca (360 mg / 100 g) content where as Bajra straw showed maximum pileus weight (5.98 g). Significantly maximum yield (820.33g/kg dry straw) with 82.03 % B.E. , protein (30.50 %) crude fiber (9.00 %) , ash (6.50 %) , P(965mg) , Fe (15.60 mg) content of mushroom were observed with soybean straw. Jowar straw favoured to show highest moisture (91.21 %) content, wheat straw showed maximum fat (2.62 %) content and sunflower straw showed maximum carbohydrate content (52.00 %) in mushroom fruiting bodies.

Key words : *Pleurotus eous*, Tur and Sunflower straw, Mushroom fruiting bodies
