Title: Use of sugarcane bagasse for mushroom and animal feed production.

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Abstract:

Sugarcane bagasse supplemented with soyabean meal or wheat bran served as valuable substrate for production of *Pleurotus sajor-caju*, *P. eryngii* and *Agrocybe aegerita*. Comparable lignin degradation, fruiting body yield and increase in *in vitro* digestibility, as obtained with other traditional substrates, were achieved. Judging from the above, sugarcane industries could source further benefits through recycling of bagasse in the production of mushroom substrate and animal feed, which can be commercialized. The resulting compost can further be incorporated in the soil to boost the fertility status of tropical soils. Appropriate technology for this bioconversion is a subject for which further studies are needed.

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