



Group B07- ABS FUND
**Diversity of Arbuscular Mycoorhizal Fungi in Bukit 12 and Harapan Forest,
Jambi Province**

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The objective of the present study is to determine the diversity of arbuscular mycorrhizal fungi in lowland rain forest located in Bukit 12 National Park and Harapan Forest Jambi Province for comparing previously data. AMF spores number analysis showed that there were variation in four type of ecosystems both in Bukit 12 and Harapan Rain Forest. The spores number in Forest ecosystem was lower than in Rubber plantation, Oil Palm plantation and Jungle rubber both in Bukit 12 and in Harapan Rain Forest. The disturbance of ecosystem seemly influence the abundance and distribution of AMF spores. In the contrary, based on the spores morphology, the types of spores found in the Forest ecosystem was higher than the other type ecosystem both in in Bukit 12 and in Harapan Rain Forest. It means that the transformation of land used may decrease the diversity of AMF species but increase the number of spores. Further reserach is needed to know wether the transformation of ecosystem to rubber plantation or oil palm plantation decrease the soil fertility.