

**INTERACTION BETWEEN ISOLATED FUNGUS FROM CANKER DISEASES AT
ACACIA MANGIUM TREE AT ZONE II (JPP), UNIVERSITI MALAYSIA SABAH
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ABSTRACT

Six (6) isolates of fungi isolated from canker symptoms in *Acacia mangium* tree at zone 2 University Malaysia Sabah were tested *in vitro* (dual culture; intra and interspecific; on MEA & wood) for their interaction behaviour. The results of this study showed that the combination of the interaction between a fungal isolates, indicating intraspecific interactions between the isolated fungi are mutually intermingle between four combinations (SP2 vs SP2; SP4 vs SP4; SP5 vs SP5 and SP6 vs SP6) of these interactions. These interactions can be detected in both in MEA media and *A. mangium* wood media. In the intraspecific interactions, each combination of the hyphae of fungi isolated colonies of blocks of the same species, coiling each other and did not form a region or empty space that separates the two hyphal colonies in both media. In interspecific interactions with different species of fungi, antagonistic interaction and replacement were observed (SP2 vs SP4; SP2 vs SP5; SP2 vs SP6; SP4 vs SP5; SP4 vs SP6 and SP5 vs SP6) were observed. On morphology of hyphae, the isolates showed uneven hyphae meet with each other and were not equal in length to each other. All isolates showed similar characteristic to genus *Spadicoides*, *Trichocladium*, *Trichothecium* and *Coemansia*. This study showed some fungi are antagonise some other on the degraded substrates.