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ABSTRACTS

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Salinity and temperature effects on growth of three fungi from Laing Island (Papua New Guinea).

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The growth for five isolates of *Schizophyllum commune*, *Pycnoporus sanguineus* and *Microporus xanthopus* was studied in the salinity range of 0-70 g NaCl/l and in the temperature range of 15 - 50°C.

The optimum salinity for growth was found to be 0 g NaCl/l; the maximum salinity tolerated by *M. xanthopus* was 35 g/l, by *P. sanguineus* 50-60 g/l and by *S. commune* greater than 70 g/l. *S. commune* still reached 50% of its maximal growth at the sea water salinity (33 g/l), whereas the two other species only reached 10% at the latter salinity. These results indicate that *S. commune* is a salt resistant species, whereas *P. sanguineus* and *M. xanthopus* are halo tolerant.

The optimum t°C for growth was 30°C for *M. xanthopus*, 40°C for *P. sanguineus* and *S. commune* for 35°C.