

## BIOPROSPECTING OF MARINE NATURAL PRODUCTS FOR AGRICULTURE

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As a part of our program on the discovery of antifungal agents for agriculture, we screened a number of marine natural products and their derivatives for the activity against *Fusarium* spp. We applied one dimensional bioautography for preliminary screening then followed by microtiter assay and microscopic analysis for lead compounds. The screening indicated that Kahalalide F and its analogues as well as plakortide D showed activity against *Fusarium* spp. while ilimaquinone, scep trin and plakortides were inactive against *Fusarium* spp. Further analysis showed that all *Fusarium* spp are resistant to manzamine alkaloids. Mechanism of action of Kahalalide F was observed and revealed that the compound influenced growing hyphae of *Fusarium* spp.