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Performance of some physical seed treatments against *Bipolaris sorokiniana* associated with barley *(hordeum vulgare* l.*)* seeds

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Abstract

Fifteen samples of barley grains were collected from seed lots from southern Jazan, KSA. Tracing the target fungus *Bipolaris sorokiniana* in barley seeds proved that all the seed parts considered as locations of the fungi in barley seeds. Fungi were found on seed surface in different forms (mycelia and spores). Evaluating of some physical seed treatments on seed germination and incidence of *Bipolaris sorokiniana* proved that the highest seed germination (97.30%),was recorded in apparently healthy(AH), seed treated with hot water at $50C^{O}$ for 10 minutes followed by treatment with NaCl brine solution at 2.5%, for 15 minutes (AH) (93.0%), Whereas, (AH) seeds which were polyethylene sterilized for 5 hours (89.5%). comparatively the lowest incidence of *Bipolaris sorokiniana* (4.50%) was observed in (AH) seeds treated with hot water at 50% C^{0}.

Biography

Dr. Deiaa El-Wakil completed his Ph.D from Banha University, EGYPT. He is Assistant Professor at Jazan University, KSA. He has published more than 20 papers “national and international publications"