Research Note

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AUTHORS' INFO

Associated Co-author : ¹Department of Botany, D.A.V. (P.G.) College, MUZAFFARNAGAR (U.P.) INDIA ²Raja Maharana Pratap (P.G.) College, Gurukul Narsan, HARDWAR (UTTARAKHAND) INDIA

Author for correspondence : TRIVENDER KUMAR Department of Botany, S.V. University, Gajraula, AMROHA (U.P.) INDIA

Effect of fluoride toxicity on germination of seeds of wheat (*Triticum aestivum* L.)

TRIVENDER KUMAR, T.S. DHAKA¹ AND K.P. SINGH ARYA²

ABSTRACT : The effect of sodium fluoride toxicity was found on germination of seeds of wheat cv. WH-711, HD-2932, PBW-502 and DBW-17. The seed of each variety was tested for its viability with the help of tetrazolium salt. The presoaked seeds in water were also treated with NaF solutions (10, 25, 50, 100 and 200 ppm). The seeds were sown in petri dishes and their germination was recorded. Generally seeds begin to germinate from 3rd day of sowing. Complete germination percentage was noted on 7th day of sowing. Toxicity was seen in higher concentrations of NaF solution *i.e.* 100-200 ppm dose. Lethal effect was seen above 200 ppm *i.e.* 500 ppm dose. Seeds did not show germination at this 500 ppm dose.

Key Words : Seed viability, Tetrazolium salt, Petri dishes, Germination, Lethal effect, Threshold value

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