
Read PDF Effects Of Salt On Wheat Flour Dough Fermentation

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Effect of salt and osmotic stresses on germination in ...

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Studies to test the salinity effect on germination and seedling growth of three wheat varieties were conducted in controlled temperature room (C.T. room) and results showed that germination percentage, shoot and root lengths and fresh and dry weights decreased due to salinity in all the wheat varieties. Among the varieties LU-265 showed better response for all these parameters followed by ...

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Wheat is consumed as a staple food by

more than 36% of world population. Wheat provides nearly 55% of the carbohydrates and 20% of the food calories consumed globally. The productivity of wheat is often adversely affected by salt stress which is associated with decreased germination percentage, reduced growth, altered reproductive behavior, altered enzymatic activity, disrupted photosynthesis ...

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In order to study the effects of high salt stress on PS II in detached wheat (*Triticum aestivum*) leaves, the seedlings were grown in Knop solution and temperature was 20 +/- 2 degrees C. Detached leaves were exposed to high salt stress (0.1-0.5 M NaCl) for 1 h in dark and Chl a fluorescence induction kinetics was measured.

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wheat bred for salt tolerance has had little success in farmers' fields in some regions (Hollington et al., 2002).

Salinity stress has significant adverse effects on crop productivity and yield. The primary goal of this study was to quantitatively rank salt tolerance in wheat using hyperspectral imaging. Four wheat lines were assayed in a hydroponic system with control and salt treatments (0 and 200 mM NaCl). Hyperspectral images were captured one day after salt application when there were no visual symptoms.

EFFECT OF SALINITY AND DROUGHT STRESS ON GERMINATION AND ...

THE EFFECT OF SALT, WATER AND TEMPERATURE ON WHEAT DOUGH ...

M. JOVOVIC et al.: EFFECT OF SALINITY AND DROUGHT STRESS ON GERMINATION 287 in the soil (RANA et al., 2013). It is a cereal grain that belongs to Poaceae family, which has been known as a semi-tolerant plant to drought and moderately salt-tolerant (TESTER et al., 2003). Winter wheat is more salt tolerant compared to other crops such as durum wheat (*Triticum*

Mitigation of salt stress in wheat seedlings by ...

However, in salinated soil, plants absorb too much salt. Unable to get rid of this excess salt, the plant accumulates deposits in its cells that interfere with a variety of plant processes. Observable Effects. The observable effect that salt-water has on plants depends on just how much salt is in the soil as a result of salt watering.

effect of salt on cell division and enlargement in growing point (McCue and Hanson, 1990). Early flowering reduced dry matter, increase root: shoot ratio and leaf size caused by salinity may be considered as possible ways of decreasing

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The Negative Effects of Wheat in Your Diet | Livestrong.com

Effects of salt on the acceleration process of wheat flour dough fermentation were studied, respectively. The mechanism of dough expansion influenced by salt and yeast was also investigated. The dough expansion rate with no salt reached a maximum of 18% in the 50 min dough fermentation time. In contrast, dough with 2.0% salt reached an expansion

Approaches to Enhance Salt Stress Tolerance in Wheat ...

1987), data concerning salt-stress effects during germination in durum wheat are scarce (Dell'Aquila and Spada, 1993) and, to the best of our knowledge, no study focused on the discrimination between the ionic and osmotic components of salt stress in relation to germination in this species. The present study was, therefore, undertaken in

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Of the hundreds of species of grains, wheat is the most common in the American diet. Wheat and its flour are used to make bread, buns, pasta, bagels, cookies, cakes, muffins, croissants, crackers, breakfast cereals and granola bars, just to name a few examples.

that SS and FS have a strengthening effect on wheat flour dough. A similar effect of chloride salts as SS on wheat flour dough has also been previously reported [29-31]. This is due to the surface hydrophobicity of the gluten proteins, which promotes a higher aggregation in the chloride salt presence [12], leading to higher ST values.

Effects of Salt on Wheat Flour Dough Fer-

mentation Effect of salt reduction on wheat-dough properties and quality characteristics of puff pastry with full and reduced fat content. Silow C(1), Zannini E(1), Axel C(1), Lynch KM(1), Arendt EK(2). Author information: (1)School of Food and Nutritional Sciences, University College Cork, Cork, Ireland.

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Halotolerant bacterial inoculation effect on wheat seedlings under salt stress. All the five halotolerant strains were able to significantly promote the growth of wheat seedlings in the presence of salt. Salt stress (160 mM) reduced root length by 58.9% and dry weight biomass by 51% in 7 day old seedling when compared with the negative control.

Mitigation of salt stress in wheat seedlings by ...

Using the equations presented in this article, it is possible to calculate the salt effect on consistency, hydration time and total energy of a dough formulation at a known temperature and added water level, e.g., if the salt level of a dough formulation changes from 2 to 1%, the changes required to other parameters (temperature and added water) to compensate the effect of salt can be obtained.

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