World Academy of Science, Engineering and Technology
International Journal of Bioengineering and Life Sciences
Vol:8, No:12, 2014

Effect of Dust Rejected by Iron and Steel Complex on Roots of Bean Phaseolus vulgaris

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Abstract : The study of the effect of metal dust (pollutants) was performed on higher plant white beans Phaseolus vulgaris; the experience took place in cellular toxicology laboratory (in vitro culture). The seeds of the bean Phaseolus vulgaris are cultured in a metal contaminated dust medium (a single treatment by different increasing doses), at a rate of 10 seeds per box, for 10 days. The measurement of morpho-metric parameters is performed during the first 96 hours that follow the germination; while the dosage of the proline, the protein content and histological sections are formed on the tenth day (240 h). All morpho-metric and biochemical parameters measured were highly disturbed by metal dust; histological sections confirm this disurbance.

Keywords : conductive fabrics, metal dust, osmoticums, roots, Phaseolus vulgaris
Conference Title : ICBSET 2014 : International Conference on Biological Science, Engineering and Technology
Conference Location : Istanbul, Türkiye
Conference Dates : December 22-23, 2014

Open Science Index, Bioengineering and Life Sciences Vol:8, No:12, 2014 publications.waset.org/abstracts/17722.pdf