



Selenium Cause Aberrations in Reproductive Biology of *Triticum Aestivum*

Pragya Singh *, Babita Sharma, Neha Mittal

Institute of Applied Medicines & Research, Ghaziabad, UP, India

Address for Correspondence: Pragya Singh; prags0382@gmail.com

ABSTRACT: Five tolerant, five partially-tolerant and five non- tolerant accessions of *Triticum aestivum* were analyzed for the effect of selenium on course of meiotic process. Several species of the *Graminaceous* genera, *Triticum aestivum* were analyzed cytologically in detail. This article deals with the male meiosis in fifteen collections of *Triticum aestivum*. This heavy metal affects antagonistically the meiotic process and causes various kinds of anomalies like precocious disjunction, retarded movement of chromosome, laggard, and Chromatin Bridge etc. The chromosomes configuration observed were univalents, bivalents, trivalents and quadrivalents. Further, the collections were more or less similar in possessing the amount of total meiotic anomalies, meiotic anomalies during first and second meiotic divisions, chiasmata per PMC, pollen fertility, pollen diameter and number of pollen per anther. In addition to microspore tetrads, diads, triads and pentad were reported in both collections. © 2014 iGlobal Research and Publishing Foundation. All rights reserved.

Conference Proceedings: International Conference on Life Sciences, Informatics, Food and Environment;
August 29- 30, 2014

Indo Global Journal of Pharmaceutical Sciences(ISSN 2249 1023 ; CODEN- IGJPAI; NLM ID: 101610675) indexed and abstracted in EMBASE(Elsevier), SCIRUS(Elsevier),CABI, CAB Abstracts, Chemical Abstract Services(CAS), American Chemical Society(ACS), Index Copernicus, EBSCO, DOAJ, Google Scholar and many more. For further details, visit <http://iglobaljournal.com>