



## Problems of Biotechnological and Agronomic, Breeding Interventions to Mitigate Heavy Metal Toxicity in Agriculture

William Claudio\*

*Department of Fisheries and Animal Resource Development, University of Yeungnam, Korea*

### Abstract

Global agriculture productivity and output are seriously threatened by heavy metal toxicity, which reduces the potential yield of the main food crops. It lowers seed germination, causes oxidative stress, affects photosynthesis, and

**References**

1. Andersson SR, Hakkarainen M, Inkinen S, Södergård A, Albertsson AC (2010) Polylactide stereocomplexation leads to higher hydrolytic stability but more acidic hydrolysis product pattern. *Biomacromolecules* 11: 1067-1073.
2. Werner CM, Nyfeler RW, Jacob HA, Gerber C (2004) The effect of capsular tightening on humeral head translations. *J Orthop Res* 22: 194-201.
3. Ludewig PM, Borstad JD (2003) Effects of a home exercise programme on shoulder pain and functional status in construction workers. *Occup Environ Med* 60: 841-849.
4. Lim KA, Kim SH, Huh J (2005) Somatostatin for postoperative chylothorax after surgery for children with congenital heart disease. *J Korean Med Sci* 20: 947-951.
5. Rubin MR, Bilezikian JP, McMahon DJ (2008) The natural history of primary hyperparathyroidism with or without parathyroid surgery after 15 years. *J Clin Endocrinol Metab* 93: 3462-3470.
6. Mihata T, Lee TQ, Watanabe C, Fukunishi K, Ohue M, et al. (2013) Clinical results of arthroscopic superior capsule reconstruction for irreparable rotator cuff tears. *Arthroscopy* 29: 459-470.
7. De Smet AA (1980) Axillary projection in radiography of the nontraumatized shoulder. *AJR Am J Roentgenol* 134: 511-514.
8. Loew M, Raiss P (2010) A symptom-based classification for shoulders with massive rotator cuff defects. *Int Orthop* 34: 63-69.
9. De Biase CF, Ziveri G, Delcogliano M, de Caro F, Gumina S, et al. (2013) The use of an eccentric glenosphere compared with a concentric glenosphere in reverse total shoulder arthroplasty: two-year minimum follow-up results. *Int Orthop* 37: 1949-1955.
10. Huffman GR, Tibone JE, McGarry MH, Phipps BM, Lee YS, et al. (2006) Path of glenohumeral articulation throughout the rotational range of motion in a thrower's shoulder model. *Am J Sports Med* 34: 1662-1669.