GREGORIO B. BEGONIA, Ph.D.
Professor & Chair

SELECTED PEER - REVIEWED PUBLICATIONS (2000-2009): [Note: **u** =undergraduate; **m** =M.S.; **d** =Ph.D. students; respectively, *****= corresponding author]

01. Ekunwe, Stephen*, Melvaniue S. Thomas[m], Xuan Luo[d], Hengshan Wang, Yong Chen[m], Xiaopu Zhang[m], **Gregorio Begonia**. 2009. Potential cancer-fighting *Ocimum gratissimum* (Og) Extracts: Increased anti-proliferation activity of purification fractions and their spectral fingerprints. Journal Ethnicity & Disease. (*accepted for publication, March 6, 2009*)

02. Ntoni[d], J., M.T. Begonia*, **G.B. Begonia**, and G. S. Miller[d]. 2008. Effects of cadmium on the production of phytochelatins by wheat (*Triticum aestivum* L.) during phytoextraction. Int. J. Environ. Res. Public Health (to be submitted in June 2009)

03. Ntoni[d], J., M.T. Begonia*, **G.B. Begonia**, G. S. Miller[d] and A. Benjamin[u]. 2008. Chelate-mediated changes in soil metal solubility: Implications in the uptake and translocation of cadmium by wheat (*Triticum aestivum* L.) at different growth stages. Int. J. Environ. Res. Public Health (to be submitted in June 2009)

04. Miller[d], G., **G. Begonia***, M. Begonia, and J. Ntoni. 2008. Bioavailability and uptake of lead by coffeeweed (*Sesbania exaltata* Raf.). Int. J. Environ. Res. Public Health, 5(5):436-440.

05. Miller[d], G., **G. Begonia***, M. Begonia, J. Ntoni[d] and O. Hundley[u] . 2008. Assessment of the efficacy of chelate-assisted phytoextraction of lead by coffeeweed (*Sesbania exaltata* Raf.). Int. J. Environ. Res. Public Health, 5(5): 428-435.

06. **Begonia*, G.B.** and M. Begonia. 2007. Plant photosynthetic production as controlled by leaf growth, phenology, and behaviour. Photosynthetica 45(3): 321-333.

07. **Begonia*, G.B**., M.T. Begonia, J. Ntoni[d], and G.S. Miller[d]. 2006. Chelate-enhanced solubility of metal increases phytoextraction of lead-contaminated soils by wheat (*Triticum aestivum* L.). *In* M.C. Alpoim, P.V. Morais, M.A. Santos, A.J. Cristovao, J.A. Centeno, and P. Collery (eds.). Metal Ions in Biology and Medicine 9: 141-145.

08. Begonia*, M.T., **G.B. Begonia**, G.S. Miller[d], and J. Ntoni[d]. 2006. Influence of chelates on metal solubility: Implications in the phytoextraction of lead-contaminated soils by tall fescue (*Festuca arundinacea* Schreb.). *In* M.C. Alpoim, P.V. Morais, M.A. Santos, A.J. Cristovao, J.A. Centeno, and P. Collery (eds.).Metal Ions in Biology and Medicine 9: 146-150.

09. Kambhampati[d], M.S., **G.B. Begonia**, M.F.T. Begonia, and Y. Bufford[u]. 2005. Morphological and physiological responses of morning glory (*Ipomoea lacunosa* L.) grown on a lead- and chelate-amended soil. Int. J. Environ. Res. Public Health 2 (2): 299 – 303.

10. Shumaker[d], K.L. and **G. Begonia**. 2005. Heavy metal uptake, translocation, and bioaccumulation studies of *Triticum aestivum* cultivated in contaminated dredged materials. Int. J. Environ. Res. Public Health 2 (2): 293-298.

11. Begonia*, M.T., **G.B. Begonia**, M. Ighoavodha[d], and D. Gilliard[u]. 2005. Lead accumulation by tall fescue (*Festuca arundinacea* Schreb.) grown on a lead-contaminated soil. Int. J. Environ. Res. Public Health 2 (2): 228 - 233.

12. Begonia, M.T., **G.B. Begonia***, G.S. Miller[d], and D. Gilliard[u]. 2004. Effects of chelate application time on the phytoextraction of lead-contaminated soils. Bull. Environ. Contam. Toxicol. 73: 1033 - 1040.

13. Begonia*, M.T., **G.B. Begonia**, G. Miller[d], D. Gilliard[u], and C. Young[u]. 2004. Phosphatase activity and populations of microorganisms from heavy metal-contaminated soils. Bull. Environ. Contam. Toxicol. 73: 1025 - 1032.

14. Begonia, M.T., **G.B. Begonia***, A.D. Butler[m], U. Griffin[u], and C. Young[u]. 2003. Chemically- enhanced phytoextraction of cadmium-contaminated soils using wheat (*Triticum aestivum* L.). Bull. Environ. Contam. Toxicol. 71(3): 648-654.

15. Kambhampati[d], M.S., **G.B. Begonia***, M.F.T. Begonia, and Y. Bufford[u]. 2003. Phytoremediation of a lead-contaminated soil using morning glory (*Ipomoea lacunosa* L.): Effects of a synthetic chelate. Bull. Environ. Contam. Toxicol. 71(2): 379-386.

16. **Begonia*, G.B**., G.S. Miller[m], M.F.T. Begonia, and C. Burks[u]. 2002. Chelate-enhanced phytoextraction of lead-contaminated soils using coffeeweed (*Sesbania exaltata* Raf.). Bull. Environ. Contam. Toxicol. 69(5): 624-631.

17. Begonia, M.F.T**., G.B. Begonia***, A. Butler[m], M. Burrell[u], O. Ighoavodha[u], and B. Crudup[u]. 2002. Chelate-assisted phytoextraction of lead from a contaminated soil using wheat (*Triticum aestivum* L.). Bull. Environ. Contam. Toxicol. 68: 705-711.

18. **Begonia*, G.B**., M.F.T. Begonia, G.L. Miller[m], and M.S. Kambhampati[d]. 2000. Phytoremediation of metal-contaminated soils: Jackson State University research initiatives. *In* J.A. Centeno, P.H. Collery, G. Vernet, R.B. Finkelman, H. Gibb, and H. Etienne, (eds.). Proc. Metal Ions in Biology and Medicine 6: 682-684.

19. Hardy, M.G., S. Sanders-Leggett[d], and **G. Begonia***. 2000. Effects of NaCl and $MgCl_2$ on physiological and biochemical changes in osmoregulation of *Chlorococcum hypnosporum* L. J. Mississippi Acad. Sci. 45: 124-129.