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E-mail: Mauricio.Antunes@colostate.edu

Education: B.S. Agronomy, Federal University of Viçosa, Brazil, 1993
M.S. Plant Science, Federal University of Viçosa, Brazil, 1995
Ph.D. Botany & Plant Pathology, Purdue University, U.S.A., 2003

Professional Experience:

Fellow Scientist at the Maize & Sorghum National Research Center, Brazilian Agricultural Research Corporation (EMBRAPA), Brazil, 1996 – 1997

Project: “Use of Tissue Culture and Plant Transformation for Maize Breeding”

Honor Society, Awards and Appointments:

Member of the Gamma Sigma Delta Honor Society of Agriculture, Consumer and Family Sciences and Veterinary Medicine (inducted in 1999)

Botany and Plant Pathology Department, Purdue Univ. - Travel Grant Award to the Am. Soc. of Plant Biologists Meeting in Providence, RI, 2001

Botany and Plant Pathology Department, Purdue Univ. - Travel Grant Award to the Am. Soc. of Plant Biologists Meeting in Denver, CO, 2002

Botany and Plant Pathology Department, Purdue Univ. - Travel Grant Award to the Am. Soc. of Plant Biologists Meeting in Honolulu, HI, 2003

Botany and Plant Pathology Department, Purdue Univ. - Member of the Seminar Committee, 2002-2003

Teaching Assistant, Purdue Univ. – BTNY210 – Introduction to Plant Science, 1999

Guest Lecturer, Purdue Univ. – BTNY201 – Plants and Civilization, 2001, 2002

Professional Societies:

American Society of Plant Biologists (ASPB, formerly ASPP)

Brazilian Society of Biochemistry and Molecular Biology (SBBq)

Research Interests:

My research focuses on the mechanisms by which eukaryotes regulate transcription of genes, particularly genes that are developmentally regulated and/or induced in the presence of specific effectors. Artificially developed chemically inducible promoter systems are exquisite examples of how transgenes can be introduced into an organism and have their expression manipulated at one's will. These systems can serve both basic metabolism research and field-applied technology to enhance crop productivity.

Publication:

- **Antunes, M.S.;** Vasconcelos, M.J.V.; Netto, D.A.M. (1997) RAPD Analysis of Pearl Millet Cultivars. *Intl. Sorg. Mill. Newsl.*, 38: 147-150.

Grants Awarded:

Provisional Patents Filed:

- Benzoate-inducible promoter
- Gene encoding transcription factor
- Construction of the inducible promoter system
- Flowering control in plants

Posters at Scientific Meetings:

- **Antunes, M.S.**; Maria, J. & Otoni, W.C. (1996) Effect of Glycerol on somatic embryogenesis in nucellar calli of *Citrus sinensis* (L.) Osb. cv. Seleta Branca. XXV Meeting of the Brazilian Society of Biochemistry and Molecular Biology. May 4-7, Caxambú, Brazil.
- Vasconcelos, M.J.V.; **Antunes, M.S.** & Santos, F.G. (1996) Use of RAPD markers to study the genetic diversity of sorghum (*Sorghum bicolor* (L.) Moench) cultivars. XXI Congress of Maize and Sorghum. July 7-12, Londrina, Brazil.
- **Antunes, M.S.**; Vasconcelos, M.J.V. & Lopes, M.A. (1996) Evaluation of callus formation ability in tropical maize (*Zea mays* L.) genotypes. 42nd Brazilian Congress of Genetics. September, Caxambú, Brazil.
- Vasconcelos, M.J.V.; **Antunes, M.S.**; Barbosa, S.M.; Lopes, M.A. & Carvalho, C.H.S. (1997) Callus induction and plant regeneration in tropical maize (*Zea mays* L.) genotypes. 5th International Congress of Plant Molecular Biology. September 21-27, Singapore.
- Ribeiro, S.P.; **Antunes, M.S.**; Paiva, E.; Vasconcelos, M.J.V.; and Brown, V.K. (1998) Genetic Diversity of *Tabebuia* species in the brazilian wetland, (Pantanal Matogrossense) and in the savannas (Cerrado) of Minas Gerais state. VII International Congress of Ecology. July 19-25, Florence, Italy.
- Anna T. Olek, **Mauricio S. Antunes**, Sarah E. Wyatt, and Nicholas C. Carpita. (2001) Fibronectin-binding protein as a potential signal of osmotic stress. Plant Biology Meeting. July 21-25, Providence, USA.
- Anna T. Olek, **Mauricio S. Antunes**, Sarah E. Wyatt, and Nicholas C. Carpita. (2002) Fibronectin-Binding Protein From Arabidopsis May Be Involved in Signaling of Osmotic Stress. Plant Biology Meeting. August 3-7, Denver, USA.

- **Mauricio S. Antunes**, Thomas K. Hodges, and Nicholas C. Carpita. (2003) Engineering a novel chemically inducible promoter system for use in plants. Plant Biology Meeting. July 25-30, Honolulu, USA.

Extracurricular Course:

Applied Management Principles (AMP) – Krannert School of Management, Purdue University, West Lafayette, IN. May 13-24, 2002.

Course ministered by Prof. Joseph Steinman, DBA, consisting of 8 hours of human resource management, 24 hours of accounting and financial management, 12 hours of marketing management, and 8 hours of strategic management.