

HIFZA MAZHAR

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Present Occupation:

Research Scientist

Education:

Ph.D. University of Mysore, India, 1995. Subject: Applied Botany.

M. Phil. University of Mysore, India. 1988. Subject: Seed Technology.

M.Sc. University of Mysore, India. 1987. Subject: Botany.

B. Sc. University of Mysore, India. 1985. Subjects: Botany, Zoology & Chemistry.

Post-Doctoral Research :

1. March 1995 to February 1996 - Department of Agricultural Sciences, IACR-Long Ashton Research Station, University of Bristol, BS 18 9AF, U.K. Subject: Sunflower Protein Expression.
2. April 1996 to December 1996 - Department of Agricultural Sciences, Swedish University of Agricultural Sciences, Svolov, S-26811, Sweden. Subject: Wheat Storage Proteins and Bread-making Quality.
3. January 1997 to December 1997 – Department of Plant Pathology, University of Missouri, Columbia, MO 65211. U.S.A. Subject: Cloning of Elongation Factor 1- β from Rice.

Awards and Honors:

1. Awarded the Nestle Nutrition Scholarship by Nestle Co. Vevey, Switzerland.
2. Awarded the Swedish Guest Institute Scholarship by the Swedish Institute, Stockholm, Sweden.

Professional Memberships:

American Association of Peanut Sciences (AAPS).

American Society of Enology and Viticulture (ASEV)

Publications :

1. **Mazhar,H.**, Chandrashekar, A., and Shetty, H.S. 1993. Isolation and Immunochemical Characterization of the Alcohol-Extractable Proteins (Kafirins) of *Sorghum bicolor* (L.) Moench. *Journal of Cereal Science* 17: 83-93.
2. **Mazhar,H.** and Chandrashekar, A. 2003. Differences in kafirin composition during endosperm development and germination in sorghum cultivars of varying hardness. *Cereal Chemistry* 70 (6): 667-671.
3. **Mazhar,H.** and Chandrashekar,A., 1995. Quantification and Distribution of Kafirins in the kernels of Sorghum cultivars varying in endosperm hardness. *Journal of Cereal Science* 21:155-162.
4. Chandrashekar,A. and **Mazhar,H.** 1999. The biochemical basis and implications of grain strength in sorghum and maize. *Journal of Cereal Science* 30: 193-207.
5. **Mazhar, H.**, Quayle, R., Fido, R.J., Stobart, A.K., Napier, J.A., and Shewry, P.R. 1998. Synthesis of storage reserves in developing seeds of sunflower. *Phytochemistry* 48 (3): 429-432.
6. Johansson, E., Nilsson, H., **Mazhar, H.**, Skerit, J., MacRitchie, F.,and Svensson,G. 2002. Seasonal effects on storage proteins and gluten strength in four Swedish wheat cultivars. *Journal of the Science of Food and Agriculture* 82:1305-1311.
7. **Mazhar, H.**, and Sheikh M. Basha. 2002. Effects of desiccation on peanut (*Arachis hypogaeae* L.) seed protein composition. *Environmental and Experimental Botany*. 47:67-75.
8. **Mazhar, H.**, Sheikh M. Basha and J. Lu. 2002. Variation in berry protein composition of Muscadine cultivars. *American Journal of Enology and Viticulture* 53(1):87-91.
9. **Mazhar, H.**, and Sheikh M. Basha. 2004. Immunochemical characterization of a methionine-rich protein from Peanut. *Australian Journal of Experimental Agriculture* 44 (12) 1-4.
10. Sheikh M. Basha and **Mazhar,H.** 2006. Proteomics Approach to Identify Xylem Sap Proteins in PD-tolerant Grape Genotypes. *American Journal of Enology and Viticulture*. Communicated.

Grants obtained (as Co-PI):

1. Enhancing student experiential learning in biotechnology through innovative curriculum. 2003. USDA-1890 Capacity Building Grants Program, \$199,947.
2. Changes in protein expression patterns during Muscadine berry development and ripening. 2004. USDA-1890 Capacity Building Grants Program, \$299,976.
3. Proteomics approach to Identify PD-Tolerant genes using Bioinformatics tools. 2005. FAMU-USDA Science Center, \$269,978

Research Experience:

Protein: SDS-PAGE, IEF, 2-D PAGE, Capillary Electrophoresis (CE), Column Chromatography (HPLC, Gel Permeation Chromatography, Ion Exchange Chromatography), Bacterial expression.

Immunology: Western Blotting, ELISA, Tissue Print Immunoblotting, Immuno-precipitation.

Molecular Biology: RNA extractions, Northern Blotting, mRNA isolation, *in vitro* translation, RT-PCR, DNA extraction, minipreps, maxipreps, Southern Blotting, cDNA and genomic screening and cloning.

Teaching Experience:

Adjunct Instructor at Tallahassee Community College. BSC 1404C - "Introductory Biotechnology Methods" course. Fall Semester 2005 and 2006.

Others:

Referee to the Australian Journal of Experimental Agriculture and Peanut Science.