

## Biographical sketch

### A.

Ramanjulu Sunkar  
Assistant Professor  
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### B.

#### Professional preparation

Sri Krishnadevaraya University, India, Ph.D. 1996  
Weizmann Institute of Science, Israel, Post-doc 1997-2000  
University of Bonn, Germany, Post-doc 2000-2002  
University of Arizona, Tucson, USA, Post-doc 2003  
University of California, Riverside, USA, Post-doc 2004-2006

### C.

#### Appointment

Assistant Professor, Dept. Biochem. & Mol. Biol. Oklahoma State University, 2006  
Assistant Specialist, University of California, Riverside, 2006

### D.

#### Selected Publications

Jagadeeswaran G, Zheng Y, Li YF, Shukla LI, Matts J, Hoyt P, Macmil SL, Wiley GB, Roe BA, Zhang W, **Sunkar R.** (2009). Cloning and characterization of small RNAs from *Medicago truncatula* reveals four novel legume-specific microRNA families. **New Phytologist**, 184: 85-98.

Jagadeeswaran G, Saini A, **Sunkar R.** (2009). Biotic and abiotic stress down-regulate miR398 expression in *Arabidopsis*. **Planta**. 229:1009-14.

Zhou X, **Sunkar R**, Jin H, Zhu JK, Zhang W. (2009). Genome-wide identification and analysis of small RNAs originated from natural antisense transcripts in *Oryza sativa*. **Genome Research**, 19:70-8.

**Sunkar, R** and Guru Jagadeeswaran, (2008). In silico identification of conserved miRNAs in large number of diverse plant species. **BMC Plant Biology**, 8:37.

Subramanian, S., Fu, Y., **Sunkar, R.**, Barbazuk, B. W., Zhu, J-K. and Yu, O. (2008). Novel and nodulation-regulated microRNAs in soybean roots. **BMC Genomics**, 9:160.

**Sunkar, R.**, Zhou, X., Zheng, Y., Zhang, W. and Zhu, J.-K. (2008). Identification of novel and candidate miRNAs in rice by high throughput sequencing. **BMC Plant Biology**, 8:25.

**Sunkar, R\***, Chinnusamy, V., Zhu, J. and Zhu, J.K. (2007). Small RNAs as big players in plant abiotic stress responses and nutrient deprivation. **Trends in Plant Sciences**, 12: 301-309.

**Sunkar, R.**, Kapoor, A. and Zhu, J.-K. 2006. Posttranscriptional induction of two Cu/Zn superoxide dismutase genes in Arabidopsis is mediated by down-regulation of miR398 and important for oxidative stress tolerance. **Plant Cell**, 18(8): 2051-2065.

Borsani O., Z.J., Zhu, J., Verslues P. **Sunkar, R.** and Zhu J.-K. 2005. A novel biogenesis pathway and physiological function for endogenous siRNAs from natural cis-antisense transcripts in Arabidopsis. **Cell**, 123(7): 1279-1291.

**Sunkar, R.**, T. Girke, Jain, P.K, and Zhu, J.-K. 2005. Cloning and characterization of microRNAs from rice. **Plant Cell**, 17(5): 1397-1411.

**Sunkar, R.** and Zhu, J.-K. 2004. Novel and stress-regulated microRNAs and other small RNAs from Arabidopsis. **Plant Cell**, 16(8): 2001-2019.

### **Courses taught**

6792 Plant Biochemistry

### **Synergistic Activities**

Involved in training graduate students, under-graduate students and post-doctoral fellows.

### **Ad-hoc Reveiwer for Grant Proposals**

National Science Foundation

BBSRC (UK)

### **Ad-hoc Reviewer for Journals**

Plant Cell, Plant Journal, Plant Physiology, RNA, Planta, Plant Molecular Biology, BMC Genomics, BMC Plant Biology, Journal of Experimental Botany.

### **Associate Editor**

2009- BMC Plant Biology

### **Editorial Board**

2008- Molecular Biotechnology

2007- Current Trends in Biotechnology and Pharmacy

