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**Research interest area:** Silkworm genomics/Molecular breeding/Transgenic breeding

### **Research Experience:**

November 2015 – : Scientist-B, SBRL

September 2010 – November 2015: DBT - Postdoctoral research at CCMB, Hyderabad.

June 2008 – May 2010: Postdoctoral research in Indo-Finnish collaboration project at university of Helsinki, Finland

September 2003 – April 2008: Doctoral research at ICGEB, New Delhi.

### **Fellowships:**

- DBT-Postdoctoral fellowship
- Junior Research Fellowship jointly conducted by CSIR-UGC
- Junior Research Fellowship Conducted by ICAR

### **Publications**

1. Mikael Brosche, Tiina Blomster, Jarkko Salojarvi, Fuqiang Cui, Nina Sipari, Johanna Leppala, Airi Lamminmaki, Gloria Tomai, Shaman Narayanasamy, **Ramesha A. Reddy**, Markku Keinanen, Kirk Overmyer, Jaakko Kangasjarvi (2014). Transcriptomics and Functional Genomics of ROS-Induced Cell Death Regulation by RADICAL-INDUCED CELL DEATH1. **PLoS Genet** 10(2): e1004112. doi:10.1371/journal.pgen.1004112.
2. Julia P. Vainonen, Pinja Jaspers, Michael Wrzaczek, Airi Lamminmäki, **Ramesha A. Reddy**, Lauri Vaahtera, Mikael Brosché and Jaakko Kangasjärvi (2012).

RCD1–DREB2A interaction in leaf senescence and stress responses in *Arabidopsis thaliana*. **Biochem. J.** 442 (573–581).

3. Srikrishna Mahanty, Tanushri Kaul, Prachi Pandey, **Ramesha A. Reddy**, Garladinne Mallikarjuna, Chinreddy S. Reddy, Sudhir K. Sopory, Malireddy K. Reddy (2012). Biochemical and molecular analyses of copper–zinc super oxide dismutase from a C<sub>4</sub> plant *Pennisetum glaucum* reveals an adaptive role in response to oxidative stress. **Gene** 505 (2): 309-311.
4. Tanushri Kaul, Palakolanu Sudhakar Reddy, Srikrishna Mahanty, V. Thirulogachandar, **Ramesha A. Reddy**, Bhumesh Kumar, Sudhir K. Sopory, Malireddy K. Reddy. (2011). Biochemical and molecular characterization of stress-induced  $\beta$ -carbonic anhydrase from a C(4) plant, *Pennisetum glaucum*. **J Plant Physiol.** April 15:168(6):601-10.
5. Pinja Jaspers, Kirk Overmyer, Michael Wrzaczek, Julia P. Vainonen, Tiina Blomster, Jarkko Salojärvi, **Ramesha A. Reddy**, Jaakko Kangasjarvi. (2010). The RST and PARP-like domain containing SRO protein family: analysis of protein structure, function and conservation in land plants. **BMC Genomics** 11:170.
6. **Ramesha A. Reddy**, Bhumesh Kumar, Palakolanu Sudhakar Reddy, Rabi N. Mishra, Srikrishna Mahanty, Tanushri Kaul, Suresh Nair, Sudhir K. Sopory, Malireddy K. Reddy. (2009). Molecular cloning and characterization of genes encoding *Pennisetum glaucum* ascorbate peroxidase and heat-shock factor: Interlinking oxidative and heat-stress responses. **J Plant Physiol.** Oct 15:166(15):1646-59.
7. Pinja Jaspers, Tiina Blomster, Mikael Brosché, Jarkko Salojärvi, Reetta Ahlfors, Julia P. Vainonen, **Ramesha A. Reddy**, Richard Immink, Gerco Angenent, Franziska Turck, Kirk Overmyer, Jaakko Kangasjärvi. (2009). unequally redundant RCD1 and SRO1 mediate stress and developmental responses and interact with transcription factors. **The Plant J.** Oct; 60(2):268-79.
8. Mishra, R.N., **Ramesha, A.**, Kaul, T., Nair, S., Sopory, S.K., Reddy, M.K. (2005). A modified cDNA subtraction to identify differentially expressed genes from plants with universal application to other Eukaryotes. **Anal Biochem.** Oct 1; 345 (1): 149-57.