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Qualifications

- 2019 Post-Doctoral, Bond Life Science Center, University of Missouri, USA
- 2018 Ph.D., Plant, Insect and Microbial Sciences, University of Missouri, USA
- 2013 M.S., Plant Biology, Eastern New Mexico University, USA
- 2011 M.Sc., Biotechnology, VIT University, INDIA
- 2009 B.Sc., Biotechnology, Osmania University, INDIA

Publications (Selected)

1. **Amith R. Devireddy**, Jimmie Arbogast, Ron Mittler. Coordinated and rapid whole-plant systemic stomatal responses. *New Phytologist*, (2019)
2. **Amith R. Devireddy**, Sara Zandalinas, Aurelio Gómez-Cadenas, Eduardo Blumwald and Ron Mittler. Coordinating the overall stomatal response of plants: Rapid leaf-to-leaf communication during light stress. *Science Signaling* 11, eaam9514 (2018)
3. **Amith R. Devireddy**, Madhuri A. Inupakutika, David Willmon, Prathusha Kakarla, Naveen Puppala & Youngkoo Cho: Veterinary antibiotics influence trigonelline biosynthesis and plant growth in *Arachis hypogaea* L. *Acta Agriculturae Scandinavica, Section B - Soil & Plant Science* (2016)
4. Nobuhiro Suzuki*, **Amith R. Devireddy***, Madhuri Inupakutika, Aaron Baxter, Gad Miller, Elena Shulaev, Rajeev Azad, Vladimir Shulaev, Ron Mittler: Ultra-fast alterations in mRNA levels uncover multiple players in light stress acclimation in plants. *Plant Journal* (2015)
5. Feroza K. Choudhury, **Amith R. Devireddy**, Rajeev K. Azad, Vladimir Shulaev and Ron Mittler. Local and systemic metabolic responses during light-induced rapid systemic signaling in Arabidopsis. *Plant Physiology*. 178 (4), 1461-1472 (2018)
6. Feroza K. Choudhury, **Amith R. Devireddy**, Rajeev K. Azad, Vladimir Shulaev and Ron Mittler. Rapid accumulation of glutathione during light stress in Arabidopsis. *Plant and Cell Physiology*. *Plant and Cell Physiology* 59 (9), 1817-1826 (2018)
7. D Willmon, **AR Devireddy**, M Inupakutika, N Puppala, Y Cho. Responses of peanut (*Arachis hypogaea* L.) genotypes as measured by trigonelline content after exposure to UV-B radiation. *American Journal of Plant Sciences* 8 (05), 998 (2017)
8. Prathusha Kakarla, Jared Floyd, MunMun Mukherjee, **Amith R. Devireddy**, Madhuri A. Inupakutika, et al., Inhibition of the multidrug efflux pump LmrS from *Staphylococcus aureus* by cumin spice *Cuminum cyminum*. *Archives of Microbiology* (2016)

9. Madhuri A. Inupakutika, Soham Sengupta, **Amith R. Devireddy**, Rajeev K. Azad, and Ron Mittler: Evolution of the ROS gene network. *Journal of Experimental Botany* (2016)
10. Madhuri Inupakutika, **Amith R. Devireddy**, David Willmon, Naveen Puppala and Youngkoo Cho: Genome-wide comparative analysis of genes encoding core components of ABA signaling pathway in the legume family. *International Journal of Computational Bioinformatics and In Silico Modeling* Vol. 5, No. 4: 828-843 (2016)
11. Simon Gilroy, Maciej Białasek, Nobuhiro Suzuki, Magdalena Górecka, **Amith R. Devireddy**, Stanislaw Karpinski and Ron Mittler: ROS, Calcium and Electric Signals: Key Mediators of Rapid Systemic Signaling in Plants. *Plant Physiology* (2016)
12. Kakarla P, Inupakutika M, **Devireddy AR**, Gunda SK, Willmon TM, Ranjana KC, Shrestha U, Ranaweera I, Hernandez AJ and Varela MF: 3D-QSAR and Contour Map Analysis of Tariquidar analogues as Multidrug Resistance protein-1 (Mrp1) Inhibitors. *International Journal of Pharmaceutical Science and Research*; 7(2): 554-72 (2016)
13. Simon Gilroy, Nobuhiro Suzuki, Gad Miller, Won-Gyu Choi, Masatsugu Toyota, **Amith R. Devireddy**, Ron Mittler: A tidal wave of signals: calcium and ROS at the forefront of rapid systemic signaling. *Trends in Plant Science* (2014)
14. Prathusha Kakarla, **Amith R. Devireddy**, Madhuri A. Inupakutika, et al., Molecular modelling, 3D-QSAR, and drug docking studies on the role of natural anticoagulant compounds in antithrombotic therapy. *International Journal of Pharmaceutical Sciences and Research* (2013)
15. Prathusha Kakarla, Munmun Mukherjee, Sanath Kumar, Esmeralda Gonzalez, Jared T. Floyd, Madhuri Inupakutika, **Amith Reddy Devireddy**, Selena R. Tirrell, Merissa Bruns, Guixin He, Ingrid E. Lindquist, Anitha Sundararajan, Faye D. Schilkey, Joann Mudge, Manuel F. Varela: Comparative genome analysis of non-toxigenic non-O1 versus toxigenic O1 *Vibrio cholerae*". *Genomics discovery* 2(1):1-15 (2014)