

## **Dr. Basavaraj Bagewadi**

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### **Education**

- B. Sc. (Agriculture) with Five Gold Medals from UAS Dharwad (1998)
- M. Sc. (Agriculture, Plant Breeding) with Gold Medal from CCS HAU Hisar, Haryana (2000)
- Ph. D. (Plant Molecular Biology) from International Center for Genetic Engineering and Biotechnology (ICGEB), New Delhi Campus (2005)
- Post-doctoral Research Fellow at The Ohio State University, Columbus, USA (2006)
- Post-doctoral Research Associate & Research Scientist at Donald Danforth Plant Science Center, Saint Louis, Missouri, USA (2006-2013)
- Research Associate at Washington State University, Prosser, USA (2014-2017)

### **Research and teaching experience**

- Eleven years of post-Ph. D research experience in USA.
- Mentored several graduate and post-graduate students, visiting scientist in laboratory research.
- Published more than 10 peer-reviewed research papers/notes in international and national journals and contributed a chapter for Encyclopedia of Agriculture & Food Systems published by Academic Press (Elsevier, London United Kingdom).
- Worked in two multi-institute/country research projects funded by USAID, Monsanto Fund and United States Department of Agriculture (USDA).
- Developed and validated Universal Plant Virus DNA Microarray (UPVM) to screen elite germplasm for all the known plant virus species (>1300).
- Contributed to the development of Virus Resistant Cassava for Africa (ViRCA) using PTGS/RNAi technology for *African cassava mosaic virus* and *Cassava brown streak viruses*.

### **Awards, fellowships and recognition**

- UAS, Dharwad Merit Scholarship (1994-98) for B. Sc. (Agriculture)
- ICAR Junior Research Fellowship (1998-2000) for M. Sc. (Agriculture)
- CSIR Junior & Senior Research Fellowships (2001-2005) for Ph. D (Plant Molecular Biology)

## Publications

- Nagendran, K., Mohankumar, S., Faisal, P. M., Bagewadi, B. and Karthikeyan, G., 2017, Molecular evidence for the occurrence of Tomato leaf curl New Delhi virus on chayote (*Sechium edule*) in southern India. *Virus Dis.*, 28 (4):425-429.
- Patil, B. L., Bagewadi, B., Yadav, J. S., and Fauquet, C. M., 2016, Mapping and identification of geminivirus genome sequences for efficient RNAi expression and resistance reveals AC2 as the most effective target. *Virus Res.*, 213(2016):109-115.
- Bagewadi, B. and Rayapati, N.A., 2016, First report of *Tomato yellow leaf curls Kanchanaburi* virus eggplant and tomato in Cambodia. *Plant Dis.*, 100(1):233.
- Leslie Walker, L., Bagewadi, B., Schultz, A. and Rayapati N. A., 2015, First report of *Tobacco ringspot virus* in Washington vineyards. *Plant Dis.*, 99(9):1286.
- Bagewadi, B., Hossain, M. S., Fayad, A. and Rayapati, N. A., 2015, First Report of *Cucumber mosaic virus* from Eggplant (*Solanum melongena*) in Bangladesh. *Plant Dis.*, 99(2):293.
- Bagewadi, B. and Fauquet, C. M., 2014, Plant virus control by Post-transcriptional gene silencing. *Encyclopedia of Agriculture and Food Systems*, Vol. 4. pp.472-488. [Book Chapter].
- Patil, B. L., Ogowok, O., Wagaba, H., Yadav, J. S., Bagewadi, B., Taylor, N., Alicai, T., Kreuze, J. K., Maruthi, M. N. and Fauquet, C. M., 2011, Transgenic control of Cassava brown streak disease, a serious threat to tapioca cultivation in East Africa. *Mol. Plant Pathol.*, 12(1):31-41.
- Yadav, J. S., Ogowok, E., Wagaba, H., Patil, B. L., Bagewadi, B., Alicai, T., Gaitán-Solís, E., Taylor, N. J. and Fauquet, C. M., 2011, RNAi mediated resistance to Cassava brown streak Uganda virus in transgenic cassava. *Mol. Plant Pathol.*, 12(7):677-687.
- Briddon, R. W., Patil, B. L., Bagewadi, B., Rehman, N. S. and Fauquet, C. M., 2010, Distinct evolutionary histories of the DNA-A and DNA-B components of bipartite begomoviruses. *BMC Evol. Biol.*, 10(1):97.
- Malik, P. S., Kumar, V., Bagewadi, B. and Mukherjee, S. K., 2005, Interaction between coat protein and replication initiation protein of MYMIV might lead to control of viral DNA replication. *Virology*, 337(2):273-283.
- Bagewadi, B., Chen, S., Lal, S. K., Choudhury, N. R. and Mukherjee, S. K., 2004, PCNA interacts with IMYMV Rep and Downregulate Rep Activity. *J. Virol.*, 78(21):11890-11903.