

**List of Publications by:**  
**Dr Muhammad Zubair Khan**  
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- Khan, M. Zubair**, Takemura, M., Maoka, T., Otani, M., and Misawa, N. (2016). Carotenoid analysis of sweetpotato *Ipomoea batatas* and functional identification of its lycopene  $\beta$ - and  $\epsilon$ -cyclase genes. *Z. Naturforsch. C*, 71 (9-10): 313-322.
- Maoka, T., Otani, M., **Khan, M. Zubair**, Takemura, M., Hattan, J., and Misawa, N. (2016). Novel carotenoids produced on the interaction of the foreign carotenoid ketolase *CrtW* and endogenous epoxycarotenoids unique to sweetpotato tubers. *Tetrahedron Letters*, 57 (42): 4746-4748.
- Khan, M. Zubair**, Takemura, M., and Misawa, N. (2020). Functional identification of cytochrome P450 genes involved in carotenoid biosynthesis in sweetpotato *Ipomoea batatas*. (Latest Submission).
- Ahmad, S.D., Sabir, S.M. and **Zubair, M.** (2006). Ecotypes diversity in autumn olive (*Elaeagnus umbellata* Thunb.): a single plant with multiple micronutrient genes. *Chemistry and Ecology*, 22: 509–521.
- Ahmad, S.D., Sabir, M., and **Zubair. M.** (2005). Morphological and Biochemical Variation in *Elaeagnus umbellata* Thunb. Populations; a Multipurpose Plant for Sustainable Development of Fragile Mountains of Pakistan. *PLANT GENETICS. In: Proceedings of the 6<sup>th</sup> National Congress on Genetics*, 12-14 May 2005, Kuala Lumpur, Malaysia.

## **Books**

- Syed Dilnawaz Gerdezi and **Muhammad Zubair Khan**, (2010). Autumn Olive a Medicinal Plant from Azad Jammu & Kashmir; ©LAP Lambert Academic Publishing AG and Co., KG. DudweilerLandster. Saarbrucken, Germany. p., 1-128. ISBN: 978-3-8383-5979-3.

## **Conferences Presentations/Papers**

- Muhammad Zubair Khan**, Miho Takemura, Takashi Maoka, Motoyasu Otani and Norihiko Misawa. (2019). Metabolic screening of carotenoids and elucidation of a carotenoids metabolic pathway in sweetpotato (*Ipomoea batatas*). In: *15th International Conference and Exhibition on Metabolomics & Systems Biology*, April 29-30, 2019, Kyoto, Japan.

- Muhammad Zubair Khan**, Norihiko Misawa, Miho Takemura, Motoyasu Otani, Jun-ichiro Hattan. (2018). Isolation, sequencing and functional identification of carotenoids biosynthetic pathway genes in sweetpotato (*Ipomoea batatas* L) by *E. coli* heterologous gene complementation expression system. In: *International Conference on Natural Sciences at the Interface of Climate Change, Food Security and Sustainability (NSICFSS)* 24-26th October 2018, Faculty of Sciences, University of Kotli Azad Jammu and Kashmir.
- Muhammad Zubair Khan**. 2017. Functional analysis of carotenoid biosynthesis genes in sweetpotato *Ipomoea batatas* (サツマイモ *Ipomoea batatas* 由来カロテノイド生合成遺伝子の機能解析), *PhD Thesis Defense/Final Presentation*. Held at: Research Institute for Bioresources and Biotechnology, Ishikawa Prefectural University, Ishikawa, Japan (Defended in Japanese language for the ceremonial issuance of doctoral degree on 21<sup>st</sup> March, 2017).
- Muhammad Zubair Khan**, Miho Takemura, Motoyasu Otani, Jun-ichiro Hattan, Norihiko Misawa. (2016). Isolation and functional characterization of carotenoid cyclase genes from sweetpotato plants. A Poster Presentation, In: *The 2016 Annual Conference of the Japan Society for Bioscience, Biotechnology and Agrochemistry*, March 27-31, 2016. Sapporo Convention Center; Sapporo Business Innovation Center, Hokkaido, Japan.
- M. Zubair**, S. D. Ahmed, and Abdul Qayyum. (2010). Clinical based evaluation of autumn - olive (*Elaeagnus umbellata* Thunb.) for antibacterial, antihypertensive, and anti- cancer activities. In: *International Conference on Utilization of Modern Agriculture Technology in Changing Environmental Perspective*. 21-23 July, 2010. Faculty of Agriculture Rawalakot, the University of Azad Jammu and Kashmir.
- Ahmed, S. D., M. Sabir and **M. Zubair**. (2006). Autumn-olive, a single source of multiple micronutrient genes for cereal bio-fortification. In: *National Symposium on Biotechnology for Economic Prosperity* July 24-26, 2006, Nathiagali, Pakistan. Organized by National Commission on Biotechnology, Ministry of Science and Technology, Pakistan.