Publications of Prof. Dr. Faheem Aftab

1. Iqbal, J., Naz, S., Nazir, S., **Aftab, F.** and Ahmad, M.S. 1991. Total phenolics, Phenylalanine Ammonia Lyase and Polyphenol Oxidase in *in vitro* calli of chickpea. Pak. J. Bot., 23: 227-235.
2. **Aftab, F**., Zafar, Y. and Iqbal, J. 1995. Development of protoplast technology in sugarcane. Proceedings of International Symposium on Biotechnology for Sustainable Development. Dec.15-20, 1993. Eds. Kauser A. Malik, Anwar Nasim & Ahmad M. Khalid. National Institute for Biotechnology and Genetic Engineering (NIBGE), 1995, Faisalabad, Pakistan.
3. **Aftab, F.**, Zafar, Y., Malik, K.A. and Iqbal, J. 1996. Plant regeneration from embryogenic cell suspensions and protoplasts in sugarcane (*Saccharum* spp. *hybrid* cv. CoL-54). Plant Cell, Tissue and Organ Culture, 44: 71-78.
4. **Aftab, F.** and Iqbal, J. 1999. Plant regeneration from protoplasts derived from cell suspension of adventive somatic embryos in sugarcane (*Saccharum* spp. *hybrid* cv. CoL-54 and cv. CP-43/33). Plant Cell, Tissue and Organ Culture, 56: 155-162.
5. **Aftab, F.** and Iqbal, J. 1999. Somatic embryogenesis in protoplast cultures derived from mesophyll and embryogenic callus of sugarcane (*Saccharum* spp. *hybrid* cv. CoL-54). Pak. J. Bot., 31(2): 293-300.
6. **Aftab, F.** and Iqbal, J. 2001. PEG-mediated somatic hybridization studies in sugarcane (*Saccharum* spp. *hybrid* cvs. CoL-54 and CP-43/33). Pak. J. Bot., 33(3): 233-238.
7. **Aftab, F.,** Zafar, Y., and Iqbal, J. 2002. Optimization of conditions for electrofusion in sugarcane protoplasts. Pak. J. Bot., 34(3): 297-301.
8. **Aftab, F.,** Mansouri, K and Preece, J. E. 2005. The influence of environment, media and Zerotol on forcing and *in vitro* establishment of softwood shoots from large stem segments of *Acer saccharinum* L. and *Fraxinus pennsylvanica* Marsh. Propagation of Ornamental Plants, 5(3): 111-116.
9. **Aftab, F** and Preece, J. E. 2007. Forcing and in vitro establishment of softwood shoots from large stem segments of woody plants. In: Biotechnology and Sustainable Agriculture 2006 and Beyond, Z. Xu et al. (eds.), Springer, 437-444.
10. Akram, M and **Aftab, F**. 2008. High frequency multiple shoot formation from nodal explants of teak (*Tectona grandis*) induced by thidiazuron. Propagation of Ornamental Plants, 8 (2): 72-75.
11. **Aftab, F.,** Alam, M and Afrasiab, H. 2008. *In vitro* shoot multiplication and callus induction in *Gladiolus hybridus* Hort. Pak. J. Bot., 40(2): 517-522.
12. **Aftab, F**., Akram, S and Iqbal J. 2008. Estimation of fixed oils from various explants and *in vitro* callus cultures of jojoba (*Simmondsia chinensis*). Pak. J. Bot., 40(4): 1467-1471.
13. Munir, N and **Aftab, F**. 2008. Effect of NaCl stress on soluble protein contents and regeneration potential of sugarcane callus cultures. Proceedings, First Symposium on "Genomics, Proteomics, Metabolomics: Recent trends in Biotechnology". October 22-23, 2007. Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, 116-126.
14. Akram, M and **Aftab, F**. 2009. An efficient method for clonal propagation and in vitro establishment of softwood shoots from epicormic buds of teak (*Tectona grandis* L.)". *Forestry studies in China, 11(2): 105-110.*
15. Sajid, Z. A. and **Aftab, F**. 2009. Effect of thidiazuron (TDZ) on *in vitro* micropropagation of *Solanum tuberosum* L. cvs. Desiree and Cardinal. Pak. J. Bot., 41(4): 1811-1815.
16. Mehnaz, S., Weselowski, B., **Aftab, F**., Zahid, S., Lazarovits, G and Iqbal J. 2009. Isolation, characterization and effect of fluorescent pseudomonads on micro-propagated sugarcane. Canadian Journal of Microbiology 55: 1007-1011.
17. Sajid, Z.A and **Aftab, F.** 2009. Amelioration of salinity tolerance in *Solanum tuberosum* L. by exogenous application of ascorbic acid. *In vitro* Cellular and Developmental Biology-Plant 45 (5): 540-549. DOI: 10.1007/s11627-009-9252-4.

18. Munir, N and **Aftab, F**. 2009. Role of Polyethylene Glycol (PEG) in improving sugarcane's salt (NaCl) tolerance. Turkish Journal of Botany 33: 407-415. DOI: 10.3906/bot-0806-6.
19. Akram, M and **Aftab, F**. 2011. Adventitious shoot regeneration from cotyledons of Heterophragma adenophyllum (Wall. Ex. G. Don) Seem. Ex Benth. Seedlings. Propagation of Ornamental Plants 11 (4): 197-203.
20. Akram, M and **Aftab, F**. 2012. Effect of auxins on axillary and de-novo shoot regeneration from in vitro shoot cultures derived from forced epicormic buds of teak (*Tectona grandis* L.). Forestry Studies in China 14(3): 180-186.
21. **Aftab, F**. 2012. Progress and prospects for an efficient micropropagation of woody plants. In: Crop production for agricultural improvement. Ashraf M., Öztürk M., Ahmad MSA., Aksoy, A. (Eds.). Springer. 363-377.
22. Sajid, Z. A and **Aftab, F**. 2012. Role of salicylic acid in amelioration of salt tolerance in *Solanum tuberosum* L. Pak. J. Bot., 44 (special issue): 37-42.
23. Akram, M. and **Aftab, F**. 2012. Efficient micropropagation and rooting of King white mulberry (*Morus macroura* Miq.) Var. Laevigata from nodal explants of mature trees. Pak. J. Bot., 44 (special issue): 285-289.
24. Ejaz, B, Sajid, Z. A and **Aftab, F**. 2012. Effect of exogenous application of ascorbic acid on antioxidant enzyme activities, proline contents and growth parameters of *Saccharum* spp. *hybrid* cv. HSF-240 under salt stress. Turk J Biol. 36: 630-640.
25. Munir, N and Aftab, F. 2013. Changes in activities of antioxidant enzymes in response to NaCl stress in callus cultures and regenerated plants of sugarcane. J. Anim. Plant Sci. 23(1): 203-209.
26. Munir, N and **Aftab, F**. 2013. Effect of NaCl stress on callus morphology and growth of sugarcane callus cultures (cv. SPF 234 and cv. HSF 240). Pak J Sci 65(4): 473-477.
27. Ali, J., Chaudhry, NY and **Aftab, F.** 2014. In vitro development and improvement of chromium (VI)-affected adventitious roots of *Solanum tuberosum* L. with GA_3 and IAA application. Pak. J. Bot., 46(2): 687-692.
28. Sajid, Z. A and **Aftab, F.** 2014. Plant regeneration from *in vitro*-selected salt tolerant callus cultures of *Solanum tuberosum* L. Pak J Bot., 46(4): 1507-1514.
29. Akram, M and **Aftab, F**. 2015. Efficient plant regeneration via shoot organogenesis from explants of in vitro seedlings of a recalcitrant woody species of teak (*Tectona grandis* L. f.). Proc. VIIIth IS on In Vitro Culture and Horticultural Breeding. Eds.: J. M. Canhoto and S. I. Correia. Acta Horticulturae 1083, ISHS 2015: 53-60.
30. Akram, M and **Aftab, F**. 2015. Effect of Cytokinins on *In vitro* seed Germination and Changes in Chlorophyll and Soluble Protein Contents of Teak (*Tectona grandis L*.). Biochem Physiol 4: 166. doi: 10.4172/2168-9652.1000166
31. Khalid A and **Aftab F**. 2016. Effect of exogenous application of 24-Epibrassinolide on growth, protein contents and antioxidant enzyme activities of in vitro-grown *Solanum tuberosum* L. under salt stress. In vitro cellular and Developmental Biology-Plant 52(1): 81-91. DOI. 10.1007/s11627-015-9745-2.
32. Akram, M and **Aftab, F**. 2016. Fruit size and sampling sites affect dormancy, viability and germination of teak (*Tectona grandis* L.) seeds. Pakistan Journal of Botany 48 (2): 511-518.
33. Sajid, Z. A and **Aftab, F.** 2016. An efficient method for the establishment of cell suspension cultures in potato *(Solanum tuberosum* L). Pakistan Journal of Botany 48 (5): 1993-1997.
34. Sajid, Z. A and **Aftab, F**. 2016. Foliar Spray of Ascorbic acid improves salinity tolerance in *Solanum tuberosum* L., Acta Hortic. 1145: 69-74.
35. Akram, M. and Aftab, F. 2017. Somatic embryogenesis and plant regeneration from calluses derived from shoot-tips of forced softwood shoots of teak (*Tectona grandis* L. f.). HPJ 45; In press.