

**LIST OF PUBLICATIONS IN REFERRED JOURNALS OF INTERNATIONAL
REPUTE/REVIEW ARTICLES/BOOK-CHAPTERS CONTRIBUTED/ANNUAL
REPORTS**

BY

PROFESSOR DR. MUHAMMAD ARIF

A. Research Papers Published in Referred Journals of International Repute

1. Arif, M., G. Ruby, A. Rehman, M. Ali and S. Rehman. 2017. Screening of potato cultivars to *Potato mop-top virus* in Northwestern Pakistan. *Potato Research*, (European Association of Potato Research) 59: 295-312 (DOI 10.1007/s11540-016-9324-x)
2. **Arif, M.**, W. Khan, M. Ibrahim and M. Fahim. 2015. Citrus tristeza virus: an increasing trend in the virus occurrence and distribution in citrus fruits of Northwest, Pakistan. *Afr. J. Biotech.* 14: 2352-2360.
3. **Arif, M.**, W. Khan, A. Shafi and Kamranullah. 2015. Detection of beet necrotic yellow vein virus in Pakistan using bait-plant bioassay, ELISA and RT-PCR. *Afr. J. Biotech.* 14: 3206-3215.
4. **Arif, M.** M. Ali, Anayat-ur-Rehman and M. Fahim. 2014. Detection of *Potato mop-top virus* in soils and potato tubers using bait-plant bioassay, ELISA and RT-PCR. *Journal of Virological Methods* 195: 221-227.
5. **Arif, M.** M. Ali, Anayat-ur-Rehman and M. Fahim. 2013. Occurrence of potato mop-top virus in Northwest of Pakistan. *European Journal of Plant Pathology* 137: 787-796
6. **Arif, M.**, Thomas, P. E., Crosslin, J. M. and Brown, C. R. 2009. Development of molecular resistance in potato against *Potato leaf roll virus* and *Potato virus Y* through *Agrobacterium*-mediated double transgenesis. *Pakistan Journal of Botany* 41:945-954.
7. **Arif, M.**, Thomas, P. E., Crosslin, J. M. and Brown, C. R. 2009. *Agrobacterium*-mediated transformation of potato using potato leafroll virus Rep. and potato virus Y CP genes. And assessment of replicase resistance against natural infection of PLRV. *Pakistan Journal of Botany* 41: 1477-1488
8. Kadian, M. S, Ilangantileke, S, **Arif, M.** Hossain, M, Roder, W, Sakha, BM, Singh, SV, Farooq, K, and Mazeen, ACM. 2007. Status of potato seed systems in South West Asia (SWA). *Potato Journal* 34(1-2): 25-30. ISSN 0970-8235
9. **Arif, M.**, Torrance, L. and Reavy, B. 1994. Improved efficiency of detection of potato mop-top furovirus in potato tubers and in the roots and leaves of soil-bait plants. *Potato Research* 37, 373-381.
10. **Arif, M.**, Torrance, L. and Reavy, B. 1995. Acquisition and transmission of potato mop-top furovirus by a culture of *Spongospora subterranea* f. sp. *subterranea* derived from single cystosorus. *Annals of Applied Biology* 126, 493-503.
11. **Arif, M.**, Torrance, L. and Reavy, B. 1995. Acquisition and transmission of potato mop-top furovirus by a culture of *Spongospora subterranea* f. sp. *subterranea* derived from single cystosorus. *Abstracts of AAB Meeting on Virus Movement in Cell, Plant and Vector.* March 27-28, 1995. Churchill College, Cambridge, UK.
12. Barker, H., Reavy, B., **Arif, M.**, Webster, K. D. and Mayo, M. A. 1994. Towards immunity to potato leafroll virus and potato mop-top virus using transgenic and host gene-mediated forms of resistance. *Aspects of Applied Biology* 39, 189-194.
13. Reavy, B., Barker, H. **Arif, M.**, Kashiwazaki, S., Webster, K. D., Jolly C. A. and Mayo, M. A. 1994. Exploiting coat protein transgenesis to create improved forms of resistance to two potato viruses. In *Scottish Crop Research Institute, Annual Report, 1993.* pp. 103-105.

14. Reavy, B., **Arif, M.**, Kashiwazaki, S., Webster, K. D. and Barker, H. 1995. Immunity to potato mop-top virus in *Nicotiana benthamiana* plants expressing the coat protein gene is effective against fungal inoculation of the virus. *Molecular Plant-Microbe Interactions* **8**, 286-291.
15. Reavy, B. **Arif, M.**, Torrance, L. and Barker, H. 1996. Biotechnological approaches to resistance to potato mop-top virus. *Proceedings, Crop Protection in Northern Britain 1996*, p. 373-378.
16. Reavy, B. **Arif, M.**, Cowan, G. H. and Torrance, L. 1998. Association of sequences in the coat protein/readthrough domain of potato mop-top virus with transmission by *Spongospora subterranea*. *Journal of General Virology* **79**: 2343-2347.
17. Hassan, S. **Arif, M.** and Deofer, T. 1993. Preliminary studies on viral diseases of tomato in Malakand Agency. *Sarhad Journal of Agriculture* **9**: 181-187.
18. Hassan, S., **Arif, M.** and Deofer, T. 1993. Etiological studies of viral diseases of tomato in Malakand Agency. *Sarhad Journal of Agriculture* **9**: 27-35.
19. Hassan, S., **Arif, M.** and Deofer, T. 1993. Epidemiological studies of tomato viruses in Malakand Agency of North West Frontier Province of Pakistan. *Sarhad Journal of Agriculture* **9**: 37-41.
20. Haque, G., Hassan, S., Akhtar, A. and **Arif, M.** 1993. Control of soybean mosaic virus through thermotherapy. *Sarhad Journal of Agriculture* **9**: 177-180.
21. Haque, G., **Arif, M.**, Hassan, S., Akhtar, A. and Khan, M. 1993. Assessment of yield losses in soybean mosaic virus. *Sarhad Journal of Agriculture* **9**: 227-229.
22. Ali, G. A., Ali, A., **Arif, M.**, Shafiq, M. and Hassan, S. 1993. Evaluation of indirect and two-step enzyme-linked immunosorbent assay for the detection of beet curly top, beet western yellows and cucumber mosaic viruses in sugarbeet. *Sarhad Journal of Agriculture* **9**: 591-598.
23. **Arif, M.**, Khalid, S. and Hassan, S. 1992. Purification and serodiagnosis of potato leafroll virus in Pakistan. *Sarhad Journal of Agriculture* **8**: 209-215.
24. Gul, F., Hassan, S. and **Arif, M.** 1992. Identification, incidence and distribution of ratoon stunting disease of sugarcane. *Pakistan Journal of Phytopathology* **4**:9-13.
25. **Arif, M.**, Hassan, S. and Shafiq, M. 1991. Incidence and distribution of viruses infecting sugarbeet crop in North-west Frontier Province, Pakistan. *Sarhad Journal of Agriculture* **7**: 665-673.
26. **Arif, M.**, Hassan, S. and Shafiq, M. 1991. The effect of beet western yellows and beet curly top viruses on some yield components in sugarbeet root crop. *Sarhad Journal of Agriculture* **7**: 779-784.
27. **Arif, M.**, Mughal, S. M., Khalid, S. and Hassan, S. 1995. Some biological, physical and serological properties of potato leafroll virus in Pakistan. *Pakistan Journal of Botany* **27**: 233-241.
28. **Arif, M.**, Reavy, B. and Torrance, L. 1998. Role of read-through protein gene of potato mop-top furovirus in fungus transmission by *Spongospora subterranea* f. sp. *subterranea*. Abstracted in Proceeding of sixth National Conference of Plant Scientists. October 20-22, 1998. Department of Botany, University of Peshawar, Peshawar.
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32. **Arif, M.**, Ali, A., Stephen, M. and Hassan, S. 2000. Evaluation of resistance in soybean germplasm against soybean mosaic potyvirus. *Pakistan Journal of Biological Sciences* 3: 1921-1925.
33. **Arif, M.** and Hassan, S. 2000. Occurrence and distribution of soybean mosaic potyvirus in soybean crop of North-west Frontier Province, Pakistan and characterization of prevalent isolates. *Pakistan Journal of Biological Sciences* 3: 2126-2130.
34. **Arif, M.**, Ahmad, A., Ibrahim, M. and Hassan, S. 2001. Status of virus, viroid and prokaryotic diseases of citrus in NWFP, Pakistan. Abstracted in 3rd National Conference of Plant Pathology, held at CDRI/ NARC, Islamabad. October 1-3, 2001 by Pakistan Phytopathological Society. p. 62.
35. **Arif, M.** and Hassan, S. 2002. Evaluation of resistance in soybean germplasm to soybean mosaic potyvirus under field conditions. *Online Journal of Biological Sciences* 2: 601-604.
36. **Arif, M.**, Stephen, M. and Hassan, S. 2002. Effect of soybean mosaic potyvirus on growth and yield components of commercial soybean varieties. *Pakistan Journal of Plant Pathology* 1: 54-57.
37. **Arif, M.**, Ahmad, A., Ibrahim, M. and Hassan, S. 2005. Occurrence and distribution of virus and virus like diseases of citrus in North West Frontier Province of Pakistan. *Pakistan Journal of Botany* 37: 407-421.
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39. **Arif, M.**, S. J. H. Rizvi, M.S. Kadian, and S. Ilangantileke. 2006. *Clean Seed Production, Multiplication and Marketing for Increased Potato Production in Afghanistan*-Working Paper. International Potato Center, Lima, Peru. 35p.
40. **Arif, M.**, Moeen Uddin., Kadian, M.S., Ilangantileke, S. and Wassimi, N. 2005. Clean seed production, multiplication and marketing for increased potato production in Afghanistan. Pp.10-11. In: South, West and Central Asia, International Potato Centre, Newsletter. Vol.9 (1) September, New Delhi, India.
41. **Arif, M.** 2005. Integrated crop and disease management trainings in Afghanistan. The Week at ICARDA, September 2005 No. 887/888. P: 3
42. **Arif, M.** 2005. Rebuilding Agriculture in Afghanistan, in International Potato Center (CIP), Annual Report 2005. pp-42. CIP, Lima Peru.
43. **Arif, M.**, S. Ilangantileke, S. J. H. Rizvi, M. S. Kadian, Moeen Uddin, M. E. Hussaini, and N. Wassimi. 2006. CIP establishes a potato clean seed production system in Afghanistan, In: South, West and Central Asia, International Potato Centre, Newsletter. Vol.9 (2) (September), New Delhi, India.
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47. **Arif, M.**, S. Ilangantileke, M. S. Kadian, S. J. H. Rizvi and N. Wassimi. 2005. CIP's impact as active member of Future Harvest Consortium for Rebuilding Agriculture in Afghanistan (FHCRAA). Poster presentation, in Annual Review and Planning Meeting, October 30 to November 11, 2005, Lima, Peru.
48. **Arif, M.**, S. J. H. Rizvi, M.S. Kadian and S. Ilangantileke. 2006. Sustaining potato production in Afghanistan, Paper presentation, in Annual Review and Planning Meeting, October 30 to November 11, 2006, Lima, Peru.
49. **Arif, M.** 2005. Increasing potato seed production in Afghanistan, abstracted in *Consultative Group on International Agricultural Research (CGIAR) Booklet- 2005*.
50. Attaullah and **Arif, M.** 2017. Prevalence of major aphid and soil borne viruses infecting potato crop in North Western Pakistan. *Journal of Entomology and Zoology Studies* 5:221-226
51. Ghufran-ul-Haq and **Arif, M.**, et al., 2018. *Tomato yellow leaf curl virus* in tomato crop of Khyber Pakhtunkhwa province: Virus and vector prevalence and transmission properties. *Sarhad Journal of Agriculture* 34:494-499

B. Review articles/working papers

1. **Arif, M.**, S. J. H. Rizvi, M.S. Kadian, and S. Ilangantileke. 2006. *Clean Seed Production, Multiplication and Marketing for Increased Potato Production in Afghanistan-Working Paper*. International Potato Center, Lima, Peru. 40p.
2. **Arif, M.** and Hassan, S. 2000. Pathogen-derived resistance against plant viruses: postscript and prospects. *Pakistan Journal of Biological Sciences* 3: 1-9.
3. **Arif, M.** 2000. Fungally-Transmitted Rod-shaped Viruses: Biology, Transmission and Molecular Pathology. *Pakistan Journal of Biological Sciences* 3: 1194-1212.
4. Kadian, M.S.; **Arif, M.**; Ilangantileke, S. **2009**. Improving livelihood of resource poor farmers by enhancing potato productivity in Afghanistan. Yadav, J.S.P.; Singh, R.K.; Gupta, V.P. (eds). *Converting deserts in to oasis*. New Delhi (India). National Academy of Agricultural Sciences. 2009. pp. 209-216.

C. Books: chapter contributed

1. **Arif, M.** 2006. Diseases and insects of potato and their control. In: *Potato Clean Seed Production Manual*. Eds. M. Arif and S. Javed H. Rizvi. PP-7-32. Published by International potato Center (CIP)/International Center for Agricultural Research in Dry Areas (ICARDA)/USAID, Kabul Afghanistan.
2. **Arif, M.** 1998. Molecular Methods in Plant Virus Detection. In: *Diagnostic Techniques in Plant Virology*. Chapter 12. [M. Bashir and S. Hassan]. PP. 201-238. Pak. Agric. Res. Council, Islamabad.
3. Reavy, B. **Arif, M.** and Torrance, L. 1998. Early detection of the fungus-transmitted virus, potato mop-top virus. In: Manceau, C. and Spak, J. (eds). *Advances in the Detection of Plant Pathogens by Polymerase Chain Reaction*. Office for Official Publications of the European Communities, Luxembourg, p. 17-21.

D. Books: Reviewed/ edited

1. **Arif, M.** and Rizvi, S. J. H. (Ed). 2006. *Potato Clean Seed Production Manual*. Published by International Potato Center (CIP)/International Center for Agricultural Research in Dry Areas (ICARDA)/USAID, Kabul Afghanistan. 45p
2. **Arif, M.** 1998. *Diagnostic Methods in Plant Viruses* by M. Bashir and S. Hassan. Pakistan. Agricultural Research Council, Islamabad.

F. Annual Reports Written for Different Research Projects

1. **Arif, M.,** and Hassan, S. 1991. Viral Diseases of Sugar beet in the NWFP and Their Controls. First Annual Technical Report of Research Project Funded by National Scientific Research and development Board/ University Grants Commission (NSRDB/UGC), Islamabad.
2. **Arif, M.,** and Hassan, S. 1992. Viral Diseases of Sugar beet in the NWFP and Their Controls. Second Annual Technical Report of Research Project Funded by National Scientific Research and development Board/ University Grant Commission (NSRDB/UGC), Islamabad.
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4. Hassan, S. and **Arif, M.** 1991. Viral Diseases of Tomato in Malakand Agency and Their Control. First Annual Technical Report of Research Project Funded by PATA Ground Water Project NWFP\ Government of Holland.
5. Hassan, S. and **Arif, M.** 1992. Viral Diseases of Tomato in Malakand Agency and Their Control. Second Annual Technical Report of Research Project Funded by PATA Ground Water Project NWFP\ Government of Holland.
6. Hassan, S., **Arif, M.** and Ali, A. 1993. Viral Diseases of Tomato in Malakand Agency and Their Control. Third Annual Technical Report of Research Project Funded by PATA Ground Water Project NWFP\ Government of Holland.
7. **Arif, M.** 1999. Characterization of soybean mosaic virus and screening of soybean germplasm for the source of resistance to it. First Annual Technical Report of Pakistan Science Foundation Funded Research Project, Islamabad.
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9. **Arif, M.** 2001. Characterization of soybean mosaic virus and screening of soybean germplasm for the source of resistance to it. Third and Final Annual Technical Report of Pakistan Science Foundation Funded Research Project, Islamabad.
10. **Arif, M.,** and Hassan, S. 2001. Epidemiology and Management of aphid-transmitted viruses in potato crop of NWFP. University Grants Commission Funded Research Project, Islamabad, Pakistan
11. **Arif, M.** 2001. Production of Virus-Free Citrus Propagative Budwood in Pakistan. University Grants Commission Funded Research Project, Islamabad.
12. **Arif, M.** and Hassan, S. 2002. Production of Virus-Free Citrus Propagative Budwood in Pakistan. 2nd Annual Report. University Grants Commission Funded Research Project, Islamabad.
13. **Arif, M.** 2003. Development of Pathogen-Derived Molecular Resistance to Potato virus Y and Leafroll in Important Potato Cultivars of Pakistan and the USA. Final Technical Report. Fulbright Program, CIES, Washington D C.55p.
14. **Arif, M** and S. J. H. Rizvi. 2004. Clean Seed Production, Multiplication and Marketing for Increased Potato Production in Afghanistan. CIP/ICARDA Project 06-00: Annual Report for the year 2004. USAID through Chemonics/ RAMP-Afghanistan.
15. **Arif, M.** and S. J. H. Rizvi 2004. Monthly Reports of CIP/ICARDA Project 06-00: Clean Seed Production, Multiplication and Marketing for Increased Potato Production in Afghanistan. (September 2004-2005-12 Reports). USAID through Chemonics/ RAMP-Afghanistan.

16. **Arif, M.** 2005. Clean seed production, multiplication and marketing for increased potato production in Afghanistan. January to December 2005-12 Monthly Activity Reports for Rebuild Agriculture Market Programs in Afghanistan (RAMP)/USAID.
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23. **Arif, M.** 2008. Studies on Epidemiology and Biology of Virus and Viroids Diseases of citrus and their Control through Integrated Approaches. Technical Report submitted to Higher Education Commission Islamabad, Pakistan
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26. **Arif, M.** 2013. Characterization of fungus-transmitted rod-shaped viruses infecting potato and sugarbeet crops of Khyber Pakhtunkhwa and screening of germplasm for the source of resistance to them. Second Annual Tech. Report., HEC, Islamabad, Pakistan.
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28. **Arif, M.** 2018. Establishment of informal disease-free seed potato production system in Khyber Pakhtunkhwa province. First Annual and Technical Report. EF-UAP.



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