

CURRICULUM VITAE

GHULAM MUSTAFA SAHI

S/O Muhammad Yaqoob Sahi
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Date of Birth: - **22-02-1978.**

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POSTAL ADDRESS

Dr. GHULAM MUSTAFA SAHI
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District Sialkot, Punjab, Pakistan.

EDUCATIONAL RECORD

<i>Session</i>	<i>Degree</i>	<i>Division/Grade</i>	<i>Institute/University</i>
2016	Ph. D (Cell and Molecular Biology)		The University of Edinburgh, Scotland & The James Hutton Institute (JHI), U.K.
2000-2002	M.Sc (Hons) Agri. (Plant Pathology)	Ist Div.	Department of Plant Pathology, University of Agriculture, Faisalabad.
1996-2000	B.Sc (Hons) Agri. (Plant Pathology)	Ist Div.	Department of Plant Pathology, University of Agriculture, Faisalabad.
1993-1995	F.Sc (Pre-Medical) (Higher Secondary School Certificate)	Ist Div.	Govt. Islamia College Civil Lines, BISE, Lahore.
1991-1993	Matric (Science Group) (Secondary School Certificate)	Ist Div.	The Radiant Way School, Samanabad, BISE, Lahore.

M.Sc (Hons.) THESIS TITLE

“Host range, Transmission and some properties of Sugarcane Mosaic Potyvirus (SCMV).”

Ph.D THESIS TITLE

“Molecular studies of Tobacco Rattle Virus (TRV) infection in Potato.”

I have worked in laboratories that had all the tools necessary for molecular biology and virus research:-

- cDNA clones
- Collection of TRV strains

- A large collection of other plant viruses
- Transgenic plants
- Experience of working with TRV and related viruses.

In addition laboratories at JHI (formerly SCRI), UK had:-

- State-of-the-art facilities for plant virus research
- Several confocal microscopes

I am trained and possess practical expertise in:-

- ★ All aspects of RNA and recombinant DNA work
 - RNA isolation
 - RT-PCR
 - qRT-PCR
 - Cloning
 - Sequencing
 - In-vitro transcription
 - Site directed mutagenesis
 - Northern and Western blotting
 - Bio-informatics analysis of plant and virus proteins.
- ★ ELISA
- ★ Microscopy
- ★ Cell biology instruction.

Moreover I have vast experience of working in various well reputed public sector teaching, research and development (R&D) organizations.

DISTINCTIONS/AWARDS

1. Won Islamic Development Bank (**IDB**) **Merit Scholarship for high technology** through open competition among 57 IDB member countries to pursue Ph.D studies abroad.
2. **Certificate of Excellence** for achieving **First Position** and maintaining highest CGPA (4.00/4.00) in M.Sc. (Hons) Agriculture examination (securing 89.22% marks) in the Department of Plant Pathology, University of Agriculture, Faisalabad. Session 2000-2002.
3. **University Merit Scholarship** in M.Sc (Hons) Agriculture. Session 2000-2001.
4. Won **Silver Medal** and **Second Position** in B.Sc (Hons) Agriculture (obtaining 87.03% marks), University of Agriculture, Faisalabad. Session 1995-2000.
5. **Sir William Robert Merit Scholarship** in B.Sc (Hons) Agriculture. Session 1999-2000.
6. **Ch.M. Ashraf Nagra Trust Scholarship** in B.Sc (Hons) Agriculture. Sessions 1997-1998 and 1999-2000.
7. **BISE, Lahore Internal Merit Scholarship** in B.Sc (Hons) Agriculture. Sessions 1995-1996 and 1996-1997.

COMPUTER SKILLS

- MS Office (Word, Excel, Power Point)
- Star Office, Multimedia, MSTAT C, Internet.
- Computer applications in Statistics.

MEMBERSHIP

- Incharge Pakistan Phytopathological Society (PPS) Office
- Convener Young Phytodoctors Forum (YPF)
- Associate Editor of PPS-Newsletter
- Councilor (Plant Pathology), The Agrarian Society, UAF.

CERTIFICATES

1. Certificate of Appreciation for winning Silver medal on the completion of B.Sc (Hons.Agriculture Degree, Dean, Faculty of Agriculture, University of Agriculture, Faisalabad.
2. Certificate of Excellence for maintaining highest CGPA (4.00/4.00)and for the dynamic participation in academic and co-curricular activities; Dean, Faculty of Agriculture, University of Agriculture, Faisalabad.
3. Certificate of Services rendered to The National Cadet Corps (20-01-94 to 26-09-94), Director, National Cadet Corps and Women Guards.
4. Certificate on the completion of “German as a Foreign Language Course-I (06-03-2002 to 18-05-2002)”;
5. Certificate on the completion of “Bee Keeping Course” (10-10-1997 to 09-11-1997); Division of Education & Extension, University of Agriculture, Faisalabad.
6. Certificate of Honour for “Press Secretary (Session 1995-96), General Secretary (Session 1996-97), Vice President (Session 1997-98), and President (Session 1998-2000), respectively of the Tutorial Group-Y, University of Agriculture, Faisalabad.
7. Certificate of Honour for outstanding contributions on Independence Day Celebration,14th August, 2001; University of Agriculture, Faisalabad.
8. Certificate of participation in “Training in Notification Process & Transparency Requirement Under WTO Agreement on SPS” held on 22nd Jan., 2007 to 23rd Jan., 2007; Ministry of Food, Agriculture & Livestock, Government of Pakistan.
9. Certificate of participation on successful completion of National In-service Training course on “Word Processing with MS Word”, held on 6th, March, 2007 to 17th March, 2007 at Pakistan Manpower Institute; Labour, Manpower and Overseas Pakistani Division, Islamabad.
10. Certificate of Honour for outstanding contributions on Pakistan Day Celebrations held on 23rd March,2009; organized by Hall Senate & Office of the Hall Warden, University of Agriculture, Faisalabad-Pakistan.
11. Certificate of Attendance for attending the 2nd Annual Meeting of the IDB UK Scholars Association held on 17th June, 2013 at the Birmingham University, UK.
12. Certificate of Attendance for attending the 3rd Annual Meeting of the IDB UK Scholars Association and 1st IDB Scholars Scientific Symposium held on 22nd May, 2014 at the Cambridge University, UK.

PROFESSIONAL EXPERIENCE

RESEARCHER

01.06.2003—15.08.2003

TRAINEE RESEARCH FELLOW (T.R.F)

31.10.2003—15.02.2004

Molecular Virology Laboratory,
National Institute for Biotechnology & Genetic Engineering (NIBGE), Faisalabad.
Pakistan Atomic Energy Commission (P.A.E.C)

Main responsibilities:-

“Molecular Characterization of Burewala strain of Cotton Leaf Curl Virus (CLCuV)”

- Isolation and molecular characterization of Cotton Leaf Curl Virus(CLCuV)
 - Extraction of DNA.
 - Preparation of vector and foreign DNA fragments.
 - Ligation of vector and foreign DNA fragments.
 - Preparation of competent Bacterial cells.
 - Transformation of ligation in competent bacterial cells.
 - Selection of Transformants.
 - Analysis of Recombinants
- Glass house screening of Cotton germplasm for the sources of resistance against CLCuV.

SCIENTIFIC OFFICER

16.02.2004—29.06.2006

Crop Diseases Research Programme (CDRP),
Institute of Plant and Environmental Protection (IPEP),
National Agriculture Research Centre (NARC),
Pakistan Agriculture Research Council (PARC), Islamabad.

Main responsibilities: -

Wheat Pathology Research Group

- Collection, revival, increase and preservation of rust inoculum in the glass house for field inoculation; and its supply to the wheat breeding stations for creating artificial rust epidemic in the breeding nurseries.
- Evaluation of candidate lines against Stripe & Leaf rusts under NUWYT.
- Screening of exotic wheat material against Stripe and Leaf rusts.
- Screening of exotic wheat material against Kernal Bunt disease of wheat.
- Virulence analysis of Stripe and Leaf rusts.

SEED ANALYST

30.06.2006—01.04.2008

Central Seed Health Testing Laboratory (CSHTL),
Federal Seed Certification & Registration Department (FSC&RD),
Mauve Area, G-9/4. Islamabad, Pakistan.

Main responsibilities:-

- Seed Health testing of all crops including imported seed.
- Viral testing of crops, potato and fruit plants.
- Matters relating to Sanitary and Phytosanitary Measures (SPS), International convention on Plant Protection (ICPP), World Biological Convention (WBC), and National Animal & Plant Health Convention (NAPHIS).
- Project Incharge, FSC&RD Component “Strengthening of Seed Health Laboratories for SPS Measures—Special Programme for Strengthening SPS Facilities and quality Inspection services in Compliance with WTO—Establishment of an Integrated National Animal and Plant Health Inspection Services (NAPHIS)”.
- Imparting training to the professionals in the diagnostic techniques.

SENIOR LECTURER

02.04.2008—To Date

Department of Plant Pathology,
Faculty of Agriculture,
University of Agriculture,
Faisalabad, Pakistan.

Main responsibilities:-

- Teaching of courses at under-graduate and post graduate level.
- Conduction of practicals, demonstration and training of the students.
- Monitoring and evaluation of field trials and research activities of the students.
- Dealing with the issues and matters assigned by the head of the department.

ADDITIONAL ASSIGNMENTS

- Subject Editor (Plant Protection) of Pakistan Journal of Seed Technology (PJST)
- Member Purchase Committee, FSC&RD, MINFAL w.e.f. 15-03-2007 to 30-03-2008.
- Prepared and compiled “National Directory of Plant Pathologists, 2009”.
- Tutor of the Tutorial Group AGR-121, UAF w.e.f. 29-07-2008 to 29-09-2010. TGM-186
- Prepared Laboratory Manual for Introductory Plant Pathology, 2010.
- Assistant Superintendent, Jinnah Hall, UAF w.e.f. 27-01-2009 to 23-09-2010.
- Secretary Board of Studies, Deptt. of Plant Pathology w.e.f. 08-09-2008 to 20-09-2010.

POSTERS/TALKS

- Trainer and member of the National Coordination Committee (NCC) for “National Training Course on Vegetable Seed Health” organized under the Project “Establishment of Seed Certification System for vegetable seed production in N.As and AJK”, FSC&RD, ASPL-II, MINFAL, GoP, and in collaboration with AKRSP and Department of Agriculture, N.As, Gilgit. (28-31st March, 2007; Gilgit).
- Resource person for the FSC&RD / NAPHIS “National Training Course on Seed Virology” held on 22-24th, December, 2008.
- Delivered talk on “Vegetable crops, their diseases and control measures” for “One day domestic training on vegetable seed production” held at Vegetable Research Institute (VRI), Ayyoub Agricultural research Institute (AARI) on 09-06-2009.
- Conducted training courses on “Mushroom Cultivation” as Incharge training course in coordination with ‘Division of Education & Extension, UAF w.e.f 15-05-09 to 25-05-09 and 10-07-09 to 25-07-09.
- Poster presentation at “Kissan Mela, UAF” on 21-23rd Oct., 2009.
- Poster “Investigations on possible involvement of Tobacco Rattle Virus (TRV) RNA-2 in spraing induction” presented in the “Post Graduate Student Competition” organized by “Mylnefield Trust” & “Mylnefield Research Services” (MRS) at The James Hutton Institute (JHI) on 20-04-2011.
- Poster “Gene expression associated with Spraing disease of Potato tubers” presented on Poster Day at Graduate School of Biological Sciences, Swann Building Foyer, University of Edinburgh. 6th September, 2012.
- Platform presenter “Institute of Molecular Plant Sciences (IMPS) Postgraduate Symposium” held on 19-02-2013 at the University of Edinburgh
- Platform presenter “JHI POSTGRADUATE STUDENT COMPETITION” held on Thursday 28th March, 2013 at the JHI, Aberdeen, Scotland, UK.
- Platform presenter in the “AAB Conference, International Advances in Plant Virology” held on 25-27 Sep., 2013 at the Norwich, England, U.K.
- Platform presenter “1st IDB Scientific Symposium” held at University of Cambridge, 22nd May, 2014.
- Resource Person for Lecture on “Wheat Diseases and their Management” Mega Event “Modern Wheat Cultivation” held at Training Hall, Office of Assistant Director, Department of Agriculture (Extension), Daska, Sialkot, 25th Oct., 2018.
- Invited Lecture on “Sunflower Diseases and their Management” at “Mega Farmers Gathering Sunflower” held on 9th February, 2019 at “Al-Sardar Marquee”, Sialkot Road, Tehsil Daska, Sialkot; vide No.125/Estt. Dated 07.02.2019.
- Invited Lecture on “Rice Diseases and their Management” at “Refresher Course on Kharif Crops” held on 23th April, 2019 at Training Hall, Agriculture Complex, District Courts, Sialkot; vide No.383/Estt. Dated 19.04.2019.
- Tehsil Coordinator (Tehsil Sambrial), District Sialkot, Division Gujranwal; Wheat Campaign 2022, 2023 for production Enhancement vide Letter No. DFS/2873 dated 25-10-2022

TRAININGS

1. Travelling Wheat Seminar, 2005: organized by Co-ordinated Wheat Programme, NARC, Park Road, Islamabad.
2. Training course on “Disease free Seed Potato Production through Tissue culture”, Dec.26-30, 2005; organized by IABGR, NARC, Park road, Islamabad.
3. Travelling wheat seminar, 2006; organized by Co-ordinated Wheat Programme, NARC, Park Road, Islamabad.
4. One day National Workshop on Plant Variety Protection under The UPOV Convention, 20th Jan., 2007; organized by Ministry of Food, Agriculture & Livestock. In Collaboration with The International Union For The Protection of New Varieties Of Plants (UPOV) & Pakistan Agricultural Research Council, Islamabad.
5. First ECO Workshop on Harmonization of Seed Regulations, Jan.17-19, 2007; organized by Ministry of Food, Agriculture & Livestock in Collaboration with ICARDA & FAO.
6. Training in Notification Process & Transparency Requirement under WTO Agreement on SPS, Jan.22-23,2007; organized by WTO Unit, Ministry of Food, Agriculture & Livestock, Government of Pakistan.
7. Ist Planning Workshop of Pakistan-Australia Agriculture sector Linkages Programme on Development of Integrated Crop Management Practices To Increase Sustainable Yield & Quality of Mangoes In Pakistan & Australia, Feb.25th -27th, 2007; organized by PARC, Pakistan and Australian Centre for International Agriculture Research(ACIAR)
8. National Training Course on Vegetable Seed Health, 28-31st March, 2007; organized by Federal Seed Certification & Registration Department(FSC&RD), Department of Agriculture, Northern Areas & Agha Khan Rural Support Programme (AKRSP). Pakistan.
9. National Training Seminar on Biosafety and Biosecurity Initiatives, June 18-19, 2007; organized by Pakistan Agriculture Research Council, Islamabad, Pakistan.
10. Training Course on Accreditation (ISO-17025), 27-30th June, 2007; organized by Grain Quality Testing Laboratory & Training Institute NARC, Park Road, Islamabad.
11. Two weeks training course on biochemical & molecular marker techniques held on 30-07-2007 to 10-08-2007 at Nuclear Institute for Agriculture & Biology (NIAB), Faisalabad.

PROJECTS

Project Title	Principal / Co-Principal Investigator	Amount (Rs.Million)	Sponsoring Agency	Duration
FSC&RD component “Strengthening of seed health laboratories for SPS measures---Special Programme for strengthening SPS facilities and quality inspection services in compliance with WTO---Establishment of an integrated National Animal and Plant Health Inspection Services (NAPHIS)’’.	Incharge	23.22	Ministry of Food, Agriculture and Livestock, Islamabad.	Year (approx.)
“Identification of sources of resistance to Karnal Bunt disease of wheat (NARC Comp IV)”	Team member P.I. Mr. Javed Iqbal Mirza, SSO, CDRP, NARC, Islamabad.	2.540	Agricultural Linkages Programme (ALP), PARC, Islamabad.	2.4 Years 01.07.2003 to 31.07.2007
“Evaluation and Incorporation of New Genetic diversity in Pakistani Wheat for Stripe (Yellow) Rust resistance (NARC Comp III)”	Team member P.I. Dr. Iftikhar Ahmad, Dy. Director General, IPEP, NARC, Islamabad.	3.000	Agricultural Linkages Programme (ALP), PARC, Islamabad.	2.4 Years 01.07.2003 to 30.06.2006
“Demonstration of Plant Pathological Technologies at U-Road on the Main Campus, University of Agriculture, Faisalabad.”	Team member P.I. Dr. Nazir Javed, Chairman, Department of Plant Pathology, UAF, Faisalabad.	0.304	Endowment Fund Secretariat, Directorate of Research, UAF	1.6 Years 01.03.2009 to 29.02.2012

PUBLICATIONS/ABSTRACTS

1. Hassan, M., **G.M. Sahi**, W. Wakil, and Y. Imanat. 2003. Aphid transmission of *Sugarcane Mosaic Virus* (SCMV). Pakistan Journal of Agricultural Sciences. Vol.40 (1-2):74-76. ISSN 0552-9034.
2. Rattu, A.R., M. Fayyaz, L.K. Khokhar, **G.M. Sahi**, I. Ahmad, J.I. Mirza, A.A. Hakro, and E.U.Haq. 2005. In abstract : Evaluation of Candidate lines/varieties against Leaf and Yellow rust under National Uniform Wheat and Barley Yield Trials(NUWYT).International symposium on recent trends in plant disease management,5th National conference of Plant Pathology, Department of Botany, University of Karachi,20-22 December 2005.p25.
3. M.Fayyaz, Rattu, A.R, I.Ahmad, J.I.Mirza, L.K.Khokhar, **G.M.Sahi**, A.A.Hakro and E.U.Haq. 2005. In abstract: Screening of advance lines against leaf and yellow rust under National Wheat Diseases Screening Nursery(NWDSN) .International symposium on recent trends in plant disease management,5th National conference of Plant Pathology, Department of Botany, University of Karachi,20-22 December 2005.p26.
4. Ahmad, I., Mujeeb Kazi, S.Rizwan, **G.M.Sahi**, J.I.Mirza, and M.Ashraf.In abstract: Evaluation of synthetic Hexaploid of wheat for Stripe Rust resistance in Pakistan. International Wheat Seminar. Wheat Research Institute, Faisalabad, Pakistan.20-22.February, 2006.
5. Ahmad, I., Mujeeb Kazi, J.I.Mirza, **G.M.Sahi**, M.Fayyaz, and L.K.Khokhar.In abstract: Monitoring Wheat Yellow Rust Pathogen in Pakistan. International Wheat Seminar. Wheat Research Institute, Faisalabad, Pakistan, 20-22.February, 2006.p72.
6. Ahmad, I., Mujeeb Kazi, S.Rizwan, **G.M.Sahi**, J.I.Mirza, and M.Ashraf.In abstract: Identification of sources of resistance to yellow rust of wheat. .International Wheat Seminar. Wheat Research Institute, Faisalabad, Pakistan, 20-22.February, 2006.p73.
7. Ahmad, I., Mujeeb Kazi, S.Rizwan, **G.M.Sahi**, J.I.Mirza, and M.Ashraf.In abstract: Evaluation of some Synthetic Hexaploid wheats and their durum parents for stripe rust resistance in Pakistan. Third regional Yellow Rust Conference: Tashkent, Uzbekistan, June 8-11, 2006.p44.
8. **Sahi, G.M**, I.Ahmad, S.Rizwan, J.I.Mirza, A.Rehman, and M.Ashraf. In abstract: Virulence variation of *Puccinia striiformis* f.sp.tritici in Pakistan. Third Regional Yellow Rust Conference: Taskent, Uzbekistan, June 8-11, 2006.p48.
9. Rizwan, S., I.Ahmad, M.Ashraf, **G.M.Sahi**, J.I.Mirza, A.R.Rattu, and Abdul Majeed Kazi.2007.New sources of wheat yellow rust (*Puccinia striiformis* f.sp.tritici) seedling resistance. Pakistan Journal of Botany.Vol 39(2):595-602.
10. Rizwan, S., I.Ahmad, M.Ashraf, J.I.Mirza, **G.M.Sahi**, A.R.Rattu, and Abdul Majeed Kazi.2007. Evaluation of synthetic hexaploid wheats (*Triticum turgidum* L. x *Aegilops tauschii* L.) and their durum parents for stripe rust (*Puccinia striiformis* Westend f.sp. tritici Erikson) resistance. *Revista Mexicana de Fitopatologia* (Mexican Phytopathology). Vol 25 (2): 152-160. ISSN 0185-3309.
11. Anwar, S.A., N. Javed, and **G.M.Sahi**. 2008. New approaches to manage plant parasitic nematodes. Proceedings of International Symposium on modern approaches and techniques in agriculture to ensure Food safety in Pakistan. 13-14th October, 2008.
12. Azhar, H., S.A. Anwar, **G.M. Sahi**, Q. Abbas and Imran. 2009. Seed borne fungal pathogens associated with pearl millet (*Pennisetum typhoides*) and their impact on seed germination. Pakistan Journal of Phytopathology. 21 (1):55-60. ISSN 1019-763X.
13. Iqbal, M., **G.M. Sahi**, H.A.S. Tahir, S.T. Sahi, and M. Atif. 2009. Evaluation of different fungicides against Downy Mildew of Onion. Pakistan Journal of Phytopathology. 21 (2):104-107. ISSN 1019-763X.
14. Tahir, H. A. S., S.T. Sahi, M. Iqbal, **G.M. Sahi**, and M. Atif. 2009. Evaluation of new fungicides against Powdery Mildew of Mango (*Mangifera indica*). Pakistan Journal of Phytopathology. 21 (2):126-129. ISSN 1019-763X.
15. Kamran, M., S.A. Anwar, N. Javed, S.A.Khan and **G.M. Sahi**. 2010. Incidence of root knot nematodes on tomato in Sargodha, Punjab, Pakistan. Pakistan Journal of Nematology. 28 (2): 253-262. ISSN 0255-7576.
16. Sumaira R. , A. Iftikhar , A. Mujeeb Kazi , **G.M. Sahi**, J. I. Mirza , Attiq ur Rehman and Muhammad Ashraf. 2010. Virulence variation of *Puccinia striiformis* Westend. f. sp. tritici in Pakistan, *Archives of Phytopathology and Plant Protection*, 43:9, 875-882, DOI: 10.1080/03235400802075542

17. **Sahi, G.**, P. E. Hedley, J. Morris, G.J. Loake and S. A. MacFarlane. 2016. Molecular and biochemical examination of spraing disease in potato tuber in response to Tobacco rattle virus infection. *Molecular Plant-Microbe Interaction*. 29 (10): 822-828. (DOI: 10.1094/MPMI-08-16-0169-R).
18. **Sahi, G.M.**, W. McGavin, G.J. Loake and S. A. MacFarlane. 2018. Diploid potatoes: a useful resource for investigating TRV-induced gene silencing (not yet published)
19. Ali, Q., F. Bashir, **G.M. Sahi**, Mansoor ul Hasan, Habib ur Rehman, H.U. Shakir, H.M. Ahmed, N.A. Anjum, M. Faisal and J. Khan, 2019. Comparative effect of *Ricinus communis* (L.), *Moringa oleifera* (Lam.) and *Citrus sinensis* (L.) extracts against *Tribolium castaneum* (Herbst). *Pak. Entomol.*, 41(1):51-55.
20. Kalsoom, H., S.Ali, **G. M. Sahi**, A.Habib, M. A. Zeshan, R. Anjum, M. Yousaf and A. Abdullah.2019. Differential response of micronutrients and novel insecticides to reduce cotton leaf curl virus disease and its vector in *Gossypium hirsutum* L. varieties. *International Journal of Agriculture and Biology*. 22: 1507-1512.
21. Ali, Q., M. H. Ranjha, **G.M. Sahi**, M. Faisal, H.U. Shakir, Habib ur Rehman, N.A. Anjum, J.Iqbal and Ch. M. S.Hanif. 2020. Ovicidal effect of insect growth regulators against eggs of *Trogoderma granarium* (Everts) and *Tribolium castaneum* (Herbst). *Pak. J. Agri. Sci.*, Vol. 57(1), 73-79. ISSN (Print) 0552-9034, ISSN (Online) 2076-0906 DOI: 10.21162/PAKJAS/20.8047.
22. Hassan, S., Q., J.H.. Kadhim, A.N.Abedy, and **G.M. Sahi**. 2020. Molecular identification of some isolates of Tomato Yellow Leaf Curl Virus (TYLCV) and their cytological effects in infecting tomato (*Solanum Lycopersicum* L.) plants . *Plant Archives.*, Vol. 20(1) : 2383-2391. ISSN (Print) 0972-5210,e- ISSN (Online) 2581-6063.
23. Zainab, B., Safdar Ali, Muhammad Ahmad Zeshan, **Ghulam Mustafa Sahi**, Yasir Iftikhar, Rana Binyamin, Muhammad Usman Ghani, and Adeel Ahmad.2023. Evaluation of chili germplasm against leaf spot and its management by Nutrients and fungicides. *Plant Protection*, 07 (03) 2023. 509-518 DOI:10.33804/pp.007.03.4862. 2617-1287 (Online), 2617-1279 (Print)
24. Tahir, M.N., A. Habib, **G.M. Sahi**, M. Sagheer, T. Murad, K. Zahid and A. Ali. 2024. Tahir, M.N., A. Habib, G.M. Sahi, M. Sagheer, T. Murad, K. Zahid and A. Ali. 2024. Management of Fusarium wilt disease in Sesame (*Sesamum indicum*) through seed treatment and soil amendment. *Phytopathogenomics and Disease Control* 3:261-266. DOI: <https://doi.org/10.22194/Pdc/3.1037>. ISSN (Online):2957-5842; ISSN (Print):2957-5834.
25. Nisar, A., **G.M. Sahi**, S. Ali and M. Sagheer. 2024. Invitro testing of nanopesticides against *Colletotrichum falcatum* causing red rot of sugarcane. *Phytopathogenomics and Disease Control.*, 3(2)276-284 DOI: <https://doi.org/10.22194/Pdc/3.1038>. ISSN (Online):2957-5842; ISSN (Print):2957-5834.
26. Rehman, H.U., **G.M. Sahi**, Q. Ali and M. Sagheer. 2024. Biomangement of Fall Armyworm using *Metarhizium anisopliae* . *Biological and Clinical Sciences Research Journal* ., 2024 . eISSN (Online):2708-2261; pISSN (Print):2958-4728. DOI: <https://doi.org/10.54112/bcrj.v2024i1.1036>
27. Shahid, M. H., **G.M.Sahi**, Z. Afzal, S., Ali., M. Wahab, M.Sagheer, and A.Mustafa. 2024. Prevalence and genetic diversity of potato virus Y strains in Pakistani potato fields: insights from partial sequence analysis. *Journal of Plant Diseases and Protection*. DOI: 10.1007/s41348-024-01004-x

(b) **List of Books/Proceedings/Monographs/Manuals/Book Chapters (Attach Title Page & Contents), Significant Publications Published (Attach Reprints)**

Books / Manuals / Brochures/Extension Activities/News Letter

S.No	Author(s)	Year	Title	Name of Publisher
1.	Javed, N. and G.M.Sahi (Eds.)	2009	National Directory of Plant Pathologists	Pakistan Phytopathological Society.
2.	Javed, N., M.A. Khan, S.T.Sahi, A. Rehman, A. Habib, S. Ali, G.M.Sahi , N. Khan, and Sajid A. Khan	2010	Laboratory Manual: Introductory Plant Pathology	Department of Plant Pathology, University of Agriculture, Faisalabad.

3.	Sahi, G.M., N. Javed, and A. Habib	2010	“Gundum Ki Khooli Kangiyari Aur Iska Tadarak”(Loose Smut of Wheat and its Eradication)	Kissan Mela 22-26 th March, 2010. Endowment Fund Secretariate, UAF.
4.	Javed, N., G.M.Sahi and A. Habib	2010	“Dhan Ki Bakane Aur Iski Rouk Tham” (Bakane Disease of Rice and its Control)	Endowment Fund Secretariate, UAF.
5.	Ahmad, I., N. Javed, A. R. Bhatti, and G.M.Sahi (Eds.)	Dec.2008, June,2009, Dec.2009, June,2010,	News Letter- An Official Publication of Pakistan Phytopathological Society. Vol.14, No.1-2; Vol.15, No.1 and No.2; Vol.16, No.1	Pakistan Phytopathological Society. http://www.pakps.com
6.	Shan, M.N., G.M.Sahi and N. Javed	2009	“Channe Ka Jhulsao Aur Iska Tadaarak” (Gram Blight and its Control)	“Zaraat Nama”.Department Of Agriculture, Punjab.
7.	Fareed, A., G.M.Sahi , M. Asif Hanif ,M. Sagheer and S.T.Sahi.	2022	“Aloo ki Siah Sarand Ka Marz” (Black-Leg Disease of Potato)	Roznama 91-News, Lahore. Dated 05-11-2022.
8.	Faheem, M. A., G.M.Sahi , M. Asif Hanif and M. Sagheer.	2022	“Channae Ki Jumlaa Amrraz” (Various Diseases of Gram).	Roznama Eagle Flight, Multan. Dated 14-10-2022.
9.	SamiUllah and G.M.Sahi.	2022	“Tamatar Ka Agetaa Jhulsao” (Early Blight Disease of Tomato).	Roznama Eagle Flight, Multan. Dated 12-10-2022.
10.	Khan, M. A and G.M.Sahi.	2022	“Strawberry Ki Grey Mould Marzz” (Grey Mould Disease of Strawberry).	Roznama Neyan Rang, Multan, Karachi. Dated 24-09-2022.
11.	Ahmad, M., G.M.Sahi , Akhtar, Z.R., and S. Ali.	2022	“Raya Ki Sufaid Kungi Aur Uski Roke Thaam” (White Rust of Crucifers and Its Mangement).	Roznama Dar Guizr, Multan. Dated 21-10-2022.
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