

### Scientific Publication:

- Ikram-ul-Haq., **Zakia Latif**, S. H. Iqbal and M. A. Qadeer. (1991). Production of cellulase by locally isolated mould cultures. *Biologia*.**37**: (1), 43-50.
- **Latif, Z.**, Strange, N. Richard., Bilton, John and Riazuddin, S.(1993). Production of the Phytotoxins Solanapyrones A and C and Cytochalasin D by nine isolates of *A.rabiei*. *Plant Pathology*. **42**: (2) 172-180.
- **Latif, Z.** and Riazuddin, S. (1994). Phytotoxic activity associated with in vitro growth of *Ascochyta rabiei* Pakistan Journal of Biochemistry and Molecular Biology. **27**: No. 1-2, 17-26.
- **Latif, Z.** and Riazuddin, S. (1995). DNA fingerprinting of *Ascochyta rabiei* with digoxigenated oligonucleotide probes. *Journal of Biological Sciences*. **3**: 87-95.
- Shahid, A. A., **Latif, Z.** and Riazuddin, S.(1998). Comparison of phytotoxin(s) production among two isolates of *Ascochyta rabiei* varying in virulence. *Pakistan Journal of Plant Sciences*. **4(1)**: 1-11.
- **Latif, Z.**, Shahid, A. A. and Riazuddin, S.(1998). Production of phytotoxins in chickpea plants infected with the *Ascochyta rabiei*. *Pakistan Journal of Biochemistry and Molecular Biology*. **31**:48-60.
- M.A.Khan, R. Makhdoom, T. Husnain, M.Z. Saleem, K. Malik, **Z. Latif**, I. Altosaar and S. Riazuddin. (2001). Expression of Bt. gene in a dicot plant under promotor derived from a monocot plant. *Pakistan Journal of Biological Sciences*. **4**:(12)1518-1522.
- Khurram Bashir, Tayyab Husnain, Tahira Fatima, **Zakia Latif**, Syed Aks Mehdi and S.Riazuddin (2004). Field evaluation and risk assessment of transgenic indica Basmati rice. *Molecular Breeding* **13**:301-312.
- **Latif, Z.**, Nasir,A.I. and Riazuddin, S (2007) Indigenous production of synthetic seeds in *Daucus carota*. *Pakistan Journal of Botany*. **Vol. 39**, No. 3, pp 849-855.
- Abdul Hannan, Rukhsana Bajwa and Zakia Latif (2009) Status of *Aspergillus niger* for pectinases production potential. *Pakistan Journal of Phytopathology* **21**: No. 2 pp 78-83.
- Bushra Tabassum, Idrees Ahmed Nasir, Abdul Munim Farooq, Ziaur Rehman, **Zakia Latif** and Tayyab Husnain (2010). Viability assessment of *in vitro* produced synthetic seeds of cucumber. *African journal of Biotechnology*, **9(42)**: pp. 7026-7032 Available online at <http://www.academicjournals.org/AJB> ISSN 1684-5315
- Irshad Ahmed; Idrees Ahmed Nasir; M. Saleem Haider; M. Arshad Javed; M. Aslam Javed; **Zakia Latif** and Tayyab Husnain (2010). *In vitro* induction of mutation in potato cultivars. *Pakistan Journal of Phytopathology*. **22(1)**: 51-57.
- Idrees Ahmed Nasir; Bushra Tabassum; **Zakia Latif** ; M. Aslam Javed ;M. Saleem Haider; M. Arshad Javed;; and Tayyab Husnain (2010). Strategies to control Potato virus Y under *in vitro* conditions. *Pakistan journal of Phytopathology*. **22(1)**: 63-70
- Aatif Amin and **Zakia Latif** (2011) Isolation and characterization of H<sub>2</sub>S producing yeast to detoxify mercury containing compounds. *International Research Journal of Microbiology (IRJM)* (ISSN: 2141-5463) **2(12)**: 517-525

- Shama Nazir and **Zakia Latif** (2012). Screening of natural extracts for their antibacterial activity against different enteric pathogens isolated from soil, water and rotten fruit samples. *African Journal of Microbiology Research*. **6(40)**: 6864-6870
- Anam Tariq and **Zakia Latif** (2012). Isolation and Biochemical Characterization of Bacterial Isolates Producing Different Levels of Polygalacturonases from Various Sources. *African Journal of Microbiology Research*. **6(45)**: 7259-7264.
- **Zakia Latif** and Muhammad Sohail (2012). Molecular characterization of polygalacturonase producing *Klebsiella* and *Staphylococcus* species by 16S rRNA sequencing collected from rotten fruits and vegetables. *African Journal of Microbiology Research*. **6(46)**: 7319-7323.
- Aatif Amin and **Zakia Latif** (2013). Detoxification of Methylmercury Pollutant by Immobilized Yeast Strain (*Candida xylopsoci*). *Pakistan Journal of Botany*. **45(4)**: 1437-1442.
- Arooj Yousaf Khan and **Zakia Latif** (2014). Screening of medicinal natural extracts for their antibacterial activity against *Salmonella* species. *Pakistan Journal of Botany*. **46**: 2269-2275.
- Ayesha Tariq and **Zakia Latif** (2014). Bioremediation of mercury compounds by using immobilized nitrogen-fixing bacteria. *International Journal of Agriculture and Biology*. **16**: 1129-1134.
- Arsalan Sarwar and **Zakia Latif** (2015). GC- MS characterization of antibacterial activity evaluation of *Nigella sativa* oil against diverse strains of *Salmonella*. *Natural Product Research*. **29(4)**: 447-451; DOI : 10.1080/14786419.2014.947493.
- Aatif Amin and **Zakia Latif** (2015). Phytotoxicity of Hg and its detoxification through microorganisms in soil. Review article in: *Advancements in Life Sciences*. **2(2)**: 98-105.
- Sumaira Tariq, Aatif Amin and **Zakia Latif** (2015). PCR based DNA fingerprinting of Mercury resistant and nitrogen fixing *Pseudomonas* spp. *Pure and Applied Biology*. **4(1)**: 129-136.
- Amira Rafique, Aatif Amin and **Zakia Latif** (2015). Screening and characterization of mercury-resistant nitrogen fixing Bacteria and their use as biofertilizers and for mercury bioremediation. *Pakistan Journal of Zoology*. **47(5)**: 1271-1277.
- Muhammad Sohail and **Zakia Latif** (2016). Phylogenetic analysis of polygalacturonase producing *Bacillus* and *Pseudomonas* isolated from plant waste origin. *Jundashapur Journal of Microbiology*. 9(1): e28594. doi: 10.5812/jjm.28594
- Nageena Mobeen and **Zakia Latif** (2016). Characterization of mercury resistant and growth promoting *Enterobacter* sp. from rhizosphere to use as a biofertilizer. *Advancement in Life Sciences*. **3**: issue 2, 36-41. [www.als.journal.com/January 2016](http://www.als.journal.com/January 2016).
- Muhammad Shahzad Ali and **Zakia Latif** (2016). Molecular characterization of yeast strains isolated from different sources by restriction fragment length polymorphism. *Pakistan Journal of Botany*. **48(1)**: 363-370.
- Sarwar, A., **Latif, Z**, García, L, Chao, J.A., Rodríguez-Osorio, C., Cabaleiro, C. 2016. *Streptomyces* spp causantes de sarna común de la patata y potenciales agentes de control biológico de la enfermedad. *Tierras*, 237: 106-109.
- F. Khan and **Z. Latif** (2016). Molecular characterization of Polygalacturonase producing bacterial strains collected from different sources. *Journal of Animal and Plant Sciences*. **26(3)**: 612-618.
- Sarwar., **Z. Latif.**, C. Cabaleiro., C.R. Osorio. (2016). First report of *Streptomyces turgidiscabiei* and *S. stelliscabiei* causing potato common scab in Lahore Punjab, Pakistan.

Plant Disease. **100**: 10, 2160. Online on 15 July, 2016; <http://dx.doi.org/10.1094/PDIS-03-16-0300-PDN>.

- Hira Muzamal and **Zakia Latif** (2016). Improvement of *Bacillus* strains by mutation for over production of exo-polygalacturonases. *Indian Journal of Experimental Biology*. **54**: 509-517.
- Aatif Amin and **Zakia Latif** (2017). Screening of mercury-resistant and indole-3-acetic acid producing bacterial-consortium for growth promotion of *Cicer arietinum* L. *Journal of Basic Microbiology*. **57**: 204-217.
- Sarwar., **Z. Latif.**, C. Cabaleiro., C.R. Osorio. (2017). First report of *Streptomyces scabies* Causing Potato Common Scab in Punjab, Pakistan. *Plant Disease*. Online on Oct, 2016; <http://dx.doi.org/10.1094/PDIS-09-16-1222-PDN>. **101**: No. 2, 378
- Sarwar, **Z. Latif**, C. Cabaleiro (2017). First report of *Streptomyces turgidiscabies* causing potato common scab in Spain. *Plant Disease*. **101**(9): 1671
- Aqsa Zaheer and **Zakia Latif** (2017). Metabolic fingerprinting of bacterial strains isolated from northern areas of Pakistan. *Pakistan Journal of Botany*, **49**(4): 1509-1516
- Aatif Amin and **Zakia Latif** (2017). Cloning, expression, isotope labelling, and purification of transmembrane protein MerF from mercury resistant *Enterobacter* sp. AZ-15 for NMR studies. *Frontiers in Microbiology*. **8**: 1250-1261. doi: 10.3389/fmicb.2017.01250
- Muhammad Sohail and **Zakia Latif** (2017). Prevalence and antibiogram of Methicillin Resistance *Staphylococcus aureus* (MRSA) isolated from medical device related infections; a retrospective study in Lahore, Pakistan. *Revista da Sociedade Brasileira de Medicina Tropical / Journal of the Brazilian Society of Tropical Medicine*. **50**: 680-684.
- Muhammad Sohail and **Zakia Latif** (2018). Molecular analysis, biofilm formation and susceptibility patterns of methicillin-resistance *Staphylococcus aureus* strains causing community and health care associated infections in central venous catheters. . *Revista da Sociedade Brasileira de Medicina Tropical / Journal of the Brazilian Society of Tropical Medicine*. **51**: 603-609.
- Sarwar, **Z. Latif** and C. Cabaleiro (2018). First report of *Streptomyces bottropensis* causing potato common scab in Spain. *Plant Disease*, **102**(7): 1445. <https://doi.org/10.1094/PDIS-11-17-1803-PDN>. **(IF 3.173)**.
- Arslan Sarwar, **Zakia Latif**, Songya Zhang, Jing Zhu, David Zechel and Andreas Bechthold (2018). Biological control of potato common scab with rare Isatropolone C compound produced by plant growth promoting *Streptomyces* A1RT. *Frontiers in Microbiology* **9**:1-10 <https://doi.org/10.3389/fmicb.2018.01126>. **(IF: 4.076)**.
- Sohail M, **Latif Z** (2018). Molecular typing of Methicillin resistance *Staphylococcus aureus* (MRSA) isolated from device related infections by SCCmec and PCR-RFLP of coagulase gene . *Advancement in Life Sciences* **6**(1): 34-40.
- Adomavicius, T., Guaita, M., Zhou, Y., Jennings, M. D., **Latif, Z.**, Roseman, A. M., & Pavitt, G. D. (2019). The structural basis of translational control by eIF2 phosphorylation. *Nature communications*, **10**(1), 2136.
- Amin, A., Sarwar, A., Saleem, M. A., **Latif, Z.**, & Opella, S. J. (2019). Expression and Purification of Transmembrane Protein MerE from Mercury-Resistant *Bacillus cereus*. *Journal of Microbiology and Biotechnology*, **29**(2), 274-282.
- Sarwar, A., **Latif, Z.**, Zhang, S., Hao, J., & Bechthold, A. (2019). A Potential Biocontrol Agent *Streptomyces violaceusniger* AC12AB for Managing Potato Common Scab. *Frontiers in Microbiology*, **10**. doi.org/10.3389/fmicb.2019.00202
- Sarwar, A., **Latif, Z.**, Cabaleiro, C., Amin, A., & Saleem, M. A. (2019). First Report of

*Streptomyces europaeiscabiei* Causing Potato Common Scab in Galicia, Spain. Plant Disease, <https://doi.org/10.1094/PDIS-08-18-1397-PDN>

- Arslan Sarwar, **Zakia Latif**, Carlos R. Osorio, Cristina Cabaleiro. (2020) *Streptomyces* spp. Associated to potato common scab (PCS) in Galicia Spain. Spanish Journal of Agriculture Research. (**Under 3<sup>rd</sup>. revision**)
- Dalaq Aiysha and Zakia Latif (2020). Insights of organic fertilizer micro flora of bovine manure and their useful potentials in sustainable agriculture. PLOS ONE | <https://doi.org/10.1371/journal.pone.0226155> December 20, 2019
- Aatif Amin<sup>1</sup>, Zakia Latif, Arslan Sarwar, Basit Zeshan and Mushtaq A. Saleem (2020). Molecular Characterization of Mercury Resistant Bacteria Isolated from Tannery Wastewater. Pak. J. Zool. pp 1-7 <https://dx.doi.org/10.17582/journal.pjz/20190426100430>
- Roheen and Zakia Latif (2021). Characterization of Bacterial Strains from Rotten Fruits Treated with Harmful Preservatives. Advancement in Life Sciences (Accepted for publication)

### **Book Chapter:**

- **Zakia Latif** and Aatif Amin (2017). Bioremediation of heavy metals for sustainable agriculture In: Rhizotrophs: Plant growth promotion to Bioremediation. pp 275-289, ISBN 978-981-10-4861-6; ISBN 978-981-10-4862-3 (eBook); DOI: 10.1007/978-981-10-482-3. Springer Nature Singapore Pte Ltd.

### **Publication in Proceedings/Abstracts:**

- Ikram-ul-Haq, **Zakia Latif**, S.H. Iqbal and M.A. Qadeer. (1989). Production of cellulases by locally isolated mould cultures (Abstract) in symp: **Biotechnology for Energy**. Dec. 16-21 Faisalabad, Pakistan..
- Strange, N. Richard., Alam, S. S., Chen. Y. and **Latif, Z.** (1990). Current knowledge of the toxins produced by species of *Ascochyta*. In abstract book: Molecular aspects of Plant/ Microbial interaction at University of Warwick U.K, p 11-12.
- **Zakia Latif** and Richard N. Strange. (1990). Cytochalasin production by *Ascochyta rabiei*. In abstract book: Molecular aspects of Plant/ Microbial interaction at University of Warwick U.K, p 27.
- **Latif, Z.**, Shahid, A. A. Rahman. Z. and Riazuddin, S.(1991). Molecular and chemical basis of virulence in chickpea blight caused by *Ascochyta. rabiei*. In proceeding of SAARC Symposium "Biological Control of Agriculturally Important Plant Pests" at National Centre of Excellence in Molecular Biology, Lahore, Pakistan pp 15-27.
- **Zakia, Latif**; Ahmad Ali Shahid and S. Riazuddin (1995). Role of *Ascochyta rabiei* virulence factor in breeding resistance to chickpea in proceeding of: Fourth International Symposium/Workshop on the "Application of Molecular Biology Research in Agriculture Health and Environment" held in CEMB from 8-11 April, 1995.pp 149-154
- T.Hussain, A. Jan., T. Fatima, N. Riaz, **Z. Latif**, A. Yasmeen, K. Malik and S.Riazuddin (2000). Transformation of Basmati Rice with CryIAb, CryIAc and Cry2A gene. 4<sup>th</sup>. International Rice Genetic symposium Oct. 22-27, 2000.
- Arshad Jamal, Idrees Ahmad Nasir, Rahat Makdoom, **Zakia Latif** and S. Riazuddin (2003). Molecular Detection, cloning and sequencing of capsid protein Gene of potato virus X and potato virus Y. In 7th international conference on Trends in Biochemistry and Molecular Biology, April 2-5, p 107.

- Arshad Ahmad, Idrees Ahmad Nasir, **Zakia Latif** and S. Riazuddin (2003). RAPD Analysis of mutated potato cultivar. In 7th international conference on Trends in Biochemistry and Molecular Biology. April 2-5, p. 108-109.
- **Zalia Latif** (2004). Mycotools of new millennium in Proceeding of HEC workshop on Identification and Conservation of Micromycetes organized by Department of Mycology and Plant Pathology, University of the Punjab, Lahore Pakistan from 23<sup>rd</sup> to 28<sup>th</sup> August 2004, p 10.
- **Zalia Latif** (2007). “Characterization of fungi on molecular and biochemical basis” In Proceeding of training workshop “Identification and Conservation of Micromycetes” held from August 20-25, 2007 at the Department of Mycology & Plant Pathology, University of the Punjab, Lahore, sponsored by HEC –National Core Group Life Sciences and HEC, pp 74-78.
- **Zakia Latif** and Graham Pavitt (2009). Interaction between subunits of eIF2 and eIF2B that is critical for protein synthesis control by eIF2 $\alpha$  phosphorylation In abstract book: Translation UK, 2009, p 31.