

PROF. DR. MUHAMMAD FAISAL

PUBLICATIONS

A) Research Papers

| Sr. No | Year | Authors | Title of Paper | Journal Name | Country | IF/CITES |
|--------|------|---------------------------|---|---|----------|-------------------|
| 1 | 1999 | Faisal, M and Hasnain, S. | Gram-negative rod shaped bacteria exhibiting high level Resistance to Chromium | Proc. Pak. Cong. Zoo, 19: 121-132 | Pakistan | IF=0 Cite (03) |
| 2 | 2001 | Faisal, M and Hasnain, S. | Reduction of Toxic Hexavalent Chromium by Bacterial strains isolated from the effluents of tanneries. | Pakistan Journal of Botany, 33 (SI) 659-672 | Pakistan | 0.800 (04) |
| 3 | 2002 | Faisal, M and Hasnain, S. | Bacterial mediated aerobic reduction of toxic Cr (VI) in industrial effluents. | Pakistan Journal of Microbiology, 2: 27-32. | Pakistan | -- -- |
| 4 | 2003 | Faisal, M and Hasnain, S. | Synergistic Removal of Cr (VI) by <i>Eichornia crassipes</i> in conjunction with Bacterial Strains. | Pakistan Journal Biological Sciences, 6 (3): 264-268 | Pakistan | -- (21) |
| 5 | 2003 | Faisal, M and Hasnain, S. | Accumulation and Reduction of Cr (VI) in industrial effluent by <i>Bacillus</i> Sp- strain CrM-1. | Pakistan Journal of Botany, 35(5): 797-804 | Pakistan | 0.800 -- |
| 6 | 2004 | Faisal, M and Hasnain, S. | Bacterial Role in the Reduction of Toxic Cr (VI) in to Cr (III). | Chinese Journal of Biotechnology, 20 (5): 774-778 | China | -- |
| 7 | 2004 | Faisal, M and Hasnain, S. | Microbial Conversion of Cr(VI) in to Cr(III) in Industrial Effluent. | African Journal of Biotechnology, 3 (11): 610-617. | Africa | 0.00 (124) |
| 8 | 2004 | Faisal, M and Hasnain, S. | Comparative Study of Cr(VI) Reduction in Industrial Effluent by <i>Ochrobactrum intermedium</i> vs. <i>Brevibacterium</i> sp. | Biotechnology Letters, 26 (21): 1623-1628 | U.K | 1.977 (65) |
| 9 | 2004 | Faisal, M and Hasnain, S. | Isolation and Characterization of Chromium Resistant Bacteria from Polluted Environment. | An International Journal of Earth and Life Sciences, 2 (4): 38-45 | Pakistan | -- -- |
| 10 | 2005 | Faisal, M and Hasnain, S. | Chromate Resistant <i>Bacillus cereus</i> improves Sunflower Growth by Reducing the Toxicity | Journal of Plant Biology, 48(2): 187-194 | Korea | 1.529 (28) |

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|----|------|--------------------------------------|--|--|----------|------------|
| | | | of Cr (VI). | | | |
| 11 | 2005 | Faisal, M and Hasnain, S. | Bacterial Cr (VI) reduction concurrently improves <i>Helianthus annuus</i> growth. | Biotechnology Letters, 27(13): 943-947 | U.K | 1.977 (64) |
| 12 | 2005 | Faisal, M; Hameed, A and Hasnain, S. | Chromium resistant bacteria and cyanobacteria: Impact on Cr(VI) reduction potential and plant growth. | Journal of Industrial Microbiology & Biotechnology, 32(12): 615-621 | USA | 2.824 (42) |
| 13 | 2005 | Faisal, M and Hasnain, S. | Beneficial role of hydrophytes in removing Cr(VI) from wastewater in association with chromate-reducing bacterial strains <i>Ochrobactrum intermedium</i> and <i>Brevibacterium</i> . | International Journal of Phytoremediation , 7(4): 271-277 | USA | 2.528 (09) |
| 14 | 2005 | Faisal, M and Hasnain, S. | Colonization of <i>Vigna radiate</i> roots by chromium resistant bacterial strains <i>Ochrobactrum intermedium</i> , <i>Bacillus cereus</i> and <i>Brevibacterium</i> sp. | Chinese Journal of Applied and Environmental Biology, 11(5): 528-530 | China | -- (01) |
| 15 | 2005 | Faisal, M and Hasnain, S. | Growth improvements of Sunflower seedlings by Cr(VI)-resistant bacteria. | Iranian Journal of Biotechnology, 3(4): 114-120 | Iran | 0.973 (07) |
| 16 | 2005 | Faisal, M and Hasnain, S. | Reduction of mobile Cr(VI) under different environmental conditions. | Science International, 27(3): 271-277 | Pakistan | -- -- |
| 17 | 2006 | Faisal, M and Hasnain, S. | Growth stimulatory effects of <i>Bacillus cereus</i> and <i>Ochrobactrum intermedium</i> on <i>Vigna radiata</i> plants | Letters in Applied Microbiology, 43: 461-466 | U.K | 2.117 (53) |
| 18 | 2006 | Faisal, M and Hasnain, S. | Colonization of <i>Triticum aestivum</i> and <i>Helianthus annuus</i> roots by chromium resistant bacterial strains <i>Ochrobactrum intermedium</i> , <i>Bacillus cereus</i> and <i>Brevibacterium</i> sp. | Journal of Plant Sciences, 1(1): 36-41 | USA | -- (01) |
| 19 | 2006 | Faisal, M and Hasnain, S. | Detoxification of Cr (VI) by <i>Bacillus cereus</i> S-6. | Research Journal of Microbiology, 1 (1): 45-50. | USA | -- (18) |
| 20 | 2006 | Faisal, M and Hasnain, S. | Plant growth promotion by <i>Brevibacterium</i> under chromium stress. | Research Journal of Botany, 1(1): 24-29. | USA | -- (09) |
| 21 | 2006 | Faisal, M and Hasnain, S. | Hazardous impact of chromium on environment and its appropriate remediation | Journal of Toxicology and Pharmacology, 1(3): 248-258 | USA | -- (12) |

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|----|------|---|--|---|----------|---------------|
| 22 | 2007 | Iftikhar, S., Faisal, M and Hasnain, S. | Cytosolic reduction of Toxic Cr(VI) by indigenous Microorganism. | Research Journal of Environmental Sciences, 1(2): 77-81 | USA | -- (12) |
| 23 | 2007 | Iqbal, U., Mehmood, S., Faisal, M and Hasnain, S. | Chromosomal analysis of girls with short stature and puberty failure. | Trends in Medical Research, 2(4): 204-207 | USA | -- (02) |
| 24 | 2007 | Anwar, S., Sabri, A.N., Rehman, H., Faisal, M and Hasnain, S. | Impact of Temperatures and pH on Soluble Protein Content and Protein Profile of PY79 (Wild Type) and Sporulation Defective Mutant Strains of <i>Bacillus</i> . | Research Journal of Microbiology, 2(11): 866-870 | USA | -- (01) |
| 25 | 2007 | Zaidi, S., Yasmin, A., Faisal, M and Hasnain, S. | Inoculation effect of bacteria isolated from <i>Trianthema partulacastrum</i> , <i>Rumex dentatus</i> , and <i>Coronopus Didymus</i> plants on <i>Vigna radiata</i> seedlings. | World Journal of Agricultural Sciences, 3 (6): 796-800 | Pakistan | -- (01) |
| 26 | 2008 | Muhammad, K., Yasmin, A., Rehman, H., Faisal, M and Hasnain, S. | Growth responses of <i>Vigna radiata</i> to arid land bacteria exhibiting antimicrobial activity. | Research Journal of Environmental Sciences, 2(2): 139-144 | USA | -- -- |
| 27 | 2010 | Afrasyab, S., Faisal, M and Hasnain, S. | Comparative study of Wild and transformed salt tolerant bacterial strains on <i>Triticum aestivum</i> growth under salt stress. | Brazilian Journal of Microbiology, 41 (4): 946-955. | Brazil | 2.428 (22) |
| 28 | 2010 | Ikram, M and Faisal, M. | Comparative assessment of selenite (SeIV) detoxification to elemental selenium (Se0) by <i>Bacillus</i> sp. | Biotechnology Letters 32: 1255-1259 | U.K | 1.977 (31) |
| 39 | 2010 | Riaz, S, Faisal, M and Hasnain, S | <i>Cicer arietinum</i> growth promotion by <i>Ochrobactrum intermedium</i> and <i>Bacillus cereus</i> in the presence of CrCl ₃ and K ₂ CrO ₄ . | Annals of Microbiology, 60: 729-733. | Italy | 1.528 (10) |
| 30 | 2011 | Rehman, Y., Rizwan, M., Faisal, M and Hasnain, S. | Seasonal Effects of Domestic Wastewaters on the Cr (VI) Reduction Potential of <i>Bacillus cereus</i> S-6 and <i>Ochrobactrum intermedium</i> CrT-1. | Biology and Environment, 111 (1): 33-40. | Ireland | 0.654 (05) |
| 31 | 2011 | Riaz, S., Faisal, M., Hasnain, S. | Antibiotic susceptibility pattern and multiple antibiotic resistances (MAR) calculation of extended spectrum β -lactamase (ESBL) producing <i>Escherichia coli</i> and <i>Klebsiella</i> species in Pakistan | Afr. J Biotechnol, 10(33):6325-6331 | Africa | 0.573 (34) |

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|----|------|--|--|---|---------|-------------|
| 32 | 2011 | Riaz, S., Faisal, M., Hasnain, S and and Khan, N.A. | Antibacterial and Cytotoxic Activities of <i>Acacia nilotica</i> Lam (Mimosaceae) Methanol Extracts Against Extended Spectrum Beta-Lactamase Producing <i>Escherichia coli</i> and <i>Klebsiella</i> Species | Tropical Journal of Pharmaceutical Research, 10(6):785-791 | Nigeria | 0.504 (11) |
| 33 | 2012 | Riaz, S., Faisal, M., Hasnain, S. | Prevalence and comparison of Beta-lactamase producing <i>E. coli</i> and <i>Klebsiella</i> spp from clinical and environmental sources in Lahore, Pakistan. | Afr J Microbiol Res, 6(2): 465-470. | Africa | 0.539 (23) |
| 34 | 2012 | Sheik, CK., Mitchell, T.W., Rizvi, F.Z., Faisal, M., Hasnain, S., McInerney, M.J, and Krumholz, L.R. | Exposure of soil microbial communities to Chromium and Arsenic alters their diversity and structure. | Plos One 7(6): 1-13. e40059. doi:10.1371/journal.pone.0040059 | USA | 2.740 (125) |
| 35 | 2012 | Kiran, M., Afrasayab, S., Abbas, Z., Faisal, M. and Hasnain, S. | Plant growth promoting capability of Azotobacter as mono and mix culture on <i>Vigna radiata</i> | Afr J Microbiol Res, 6: 1291-1296. | Africa | 0.539 (03) |
| 36 | 2012 | Yasin, M and Faisal, M. | Comparative analysis of tannery-effluent contaminated soil and mixed culture bacterial inoculation on <i>Helianthus annuus</i> L. growth | Journal of Chemical Society of Pakistan 34(6): 1573-1577 | Pak | 0.300 |
| 37 | 2012 | Sultan, S., Mubashar, K and Faisal, M. | Uptake of toxic Cr (VI) by biomass of exo-polysaccharides producing bacterial strains | Afr J Microbiol Res, 6: 3329-3336. | Africa | 0.539 (14) |
| 38 | 2013 | Yasin, M and Faisal, M. | Assessing the phytotoxicity of tanneries waste contaminated soil on <i>Zea mays</i> (Lin) growth. | Polish Journal of Environmental Studies 22(6):1871-1876. | Poland | 1.383 (04) |
| 39 | 2013 | Ejaz, S., F.Z.Rizvi, S, Anwar. Faisal, M. | Biotransformation potential of hexavalent chromium by <i>Bacillus pumilus</i> -S4, <i>Pseudomonas doudoroffii</i> -S5 and <i>Exiguobacterium</i> -S8 in association with hydrophytes | International Journal of Environmental Science and Technology, 10: 709-718. | Iran | 2.540 (05) |
| 40 | 2013 | Yasir, R., Rizvi, F.Z., Faisal, M and Hasnain, S | Arsenic and Chromium Reduction in Co-Cultures of Bacteria Isolated from Industrial Sites in Pakistan | Microbiology, 82(4): 428-433. | Russia | 0.945 (11) |
| 41 | 2013 | Yasin, M., | Growth responses of <i>Triticum</i> | Afr J Microbiol | Africa | 0.0 |

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|----|------|--|--|---|------------|------------|
| | | Faisal, M and Sultan, S. | <i>aestivum</i> after inoculating with <i>Pseudomonas</i> and <i>Stenotrophomonas</i> | Res, 7: 1952-1956. | | (02) |
| 42 | 2013 | Reza, F.A and Faisal, M | Growth promotion of maize by desiccation tolerant <i>Micrococcus luteus</i> -chp37 isolated from Cholistan desert, Pakistan | Australian Journal of Crop Sciences, 7(11):1693-1698. | Australia | 0.00 (16) |
| 43 | 2013 | Faisal, M | Inoculation of Plant Growth Promoting Bacteria <i>Ochrobactrum intermedium</i> , <i>Brevibacterium</i> sp. and <i>Bacillus cereus</i> Induce Plant Growth Parameters | Journal of Applied Biotechnology, 1:45-53 | USA | 0.00 (07) |
| 44 | 2013 | Anam, Qureshi, A.H and Faisal, M | Beneficial impact of selenium resistant bacteria on selenium contaminated soil and plant growth | Punjab University Journal of Zoology, 28(2): 55-60 | Pak | 0.00 |
| 45 | 2014 | Ghalib, AK, Yasin, M., Faisal, M | Characterization and Metal Detoxification Potential of Moderately Thermophilic <i>Bacillus cereus</i> from Geothermal Springs of Himalaya | Brazilian Archive of Biology and Technology, 57: 554-560. | Brazil | 0.579 (04) |
| 46 | 2014 | Yasin, M., Faisal, M | Comparative effect of Selenium and Selenium tolerant microbes on <i>Brachiaria reptans</i> L. growth | Pakistan Journal of Botany, 46(6): 2293-2296. | Pak | 0.800 -- |
| 47 | 2014 | Faisal, M | Detoxification of carcinogenic Cr (VI) by combined action of <i>Bacillus pumilus</i> -S4 and <i>Pseudomonas doudoroffii</i> -S5 in associated with hydrophytes | Journal of Pure & Applied Microbiology, 8(6): 4289-95. | India | 0.073 -- |
| 48 | 2014 | Siddiqi, A., Sultan, S and Faisal, M | Selenite detoxification by <i>Bacillus</i> spp isolated from indigenous polluted sites | Journal of Environment & Earth Sciences, 4: 196-201. | China | |
| 49 | 2015 | Yasin, M., El-Mehdawi, AF., Jahn, CE., Anwer, A., Turner, MFS., Faisal, M and Pilon-Smith, EAH | Seleniferous soils as a source for production of selenium-enriched foods and potential of bacteria to enhance plant selenium uptake | Plant and Soil, 386(1): 385-394. | Netherland | 3.299 (31) |
| 50 | 2015 | Naseem, S. Yasin, M., Ahmed, A and Faisal, M | Chromium accumulation and toxicity in Corn (<i>Zea mays</i> L.) seedling | Polish Journal of Environmental Studies 24(2): 899-904. | Poland | 1.383 (02) |

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|----|------|---|---|---|--------|------------|
| 51 | 2015 | Yasin, M., El-Mehdawi, A., Anwar, A., Elizabeth Pilon-Smits and Faisal, M | Microbial-enhanced selenium and iron biofortification of wheat (<i>Triticum aestivum</i> L.)- applications in phytoremediation and biofortification | International Journal of Phytoremediation , 17(4):339-341. | USA | 2.528 (40) |
| 52 | 2015 | Yasin, M., El-Mehdawi, AF., Pilon-Smith, EAH and Faisal, M | Selenium-fortified wheat: Potential of microbes for biofortification of selenium and other essential nutrients | International Journal of Phytoremediation , 17(8): 777-786. | USA | 2.528 (13) |
| 53 | 2015 | Rehman, F and Faisal, M | Estimation of toxic hexavalent chromium reduction potential of <i>Bacillus pumilis</i> , <i>Cellulosimicrobium cellulans</i> and <i>Exiguobacterium</i> | Chinese Journal of Oceanology and Limnology, 33: 585-589. | China | 1.068 (06) |
| 54 | 2015 | Younis, T and Faisal, M. | Functional and genomic diversity of <i>Pinus roxburghii</i> rhizospheric bacteria and their potential role in plant growth promotion. | Research Journal of Biotechnology, 10(3): 54-61. | India | 0.242 -- |
| 55 | 2015 | Reza, F.A., Amin, A and Faisal, M | Characterization of desiccation tolerant rhizobacteria from Cholistan desert, Pakistan: Their impact on growth of <i>Zea mays</i> L | Polish Journal of Environmental Studies, 24(4): 223-231. | Poland | 1.383 --- |
| 56 | 2015 | Ahmad, T., Faisal, M., Iqbal, S., Khalil, M and Qazi, M.H | Factors affecting detoxification of hexavalent chromium into trivalent in industrial effluents by indigenous bacteria | Journal of Environment and Earth Science, 5(15): 111-118. | China | -- |
| 57 | 2015 | Javed, S., Sarwar, A., Tassawar, C. and Faisal, M | Conversion of selenite to elemental selenium by indigenous bacteria isolated from polluted areas | Chemical Speciation & Bioavailability, 27(4): 162-168. | U.K | 2.077 (04) |
| 58 | 2016 | Akhtar, M., Siddiq, A and Faisal, M | Impact of UV treatment on Exotoxin production by <i>Bacillus</i> species | Research Journal of Biotechnology, 11(9): 8-15. | India | 0.242 -- |
| 59 | 2016 | Rizvi, F.Z., Kanwal, W., Faisal, M | Chromate reducing profile of bacterial strains isolated from industrial effluents of Punjab, Pakistan | Polish Journal of Environmental Studies, 25(5):1-8 | Poland | 1.383 (04) |
| 60 | 2016 | Sultan, S and Faisal, M | Isolation and Characterization of Iron and Sulfur Oxidizing Bacteria from Coal Mines | Journal of Environment and Earth Sciences, 6(3): 153-157 | China | -- |
| 61 | 2016 | Nasim, S., Yasin, M., | Comparative Study of Plant Growth Promoting Bacteria in | Journal of Chemical Society | Pak | 0.300 (01) |

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|-----------|------|--|---|---|-------------|-------------------|
| | | Faisal, M and Ahmed, A | Minimizing Toxic Effects of Chromium on Growth and Metabolic Activities in Wheat (<i>Triticum aestivum</i>) | of Pakistan, 38(3): 509-516 | | |
| 62 | 2017 | Nawaz, H and Faisal, M | Diversity of <i>Bacillus</i> sp. isolated from rhizosphere of Corn and Wheat for their use as potential plant growth promoting bacteria | Research Journal of Biotechnology, 12(3): 53-59. | India | 0.242 |
| 63 | 2018 | Khan, WA., Yasin, NA., Ahmad, SR., Ali, A., Ahmad, A., Faisal, M | Role of <i>Burkholderia cepacia</i> CS8 in Cd-stress alleviation and phytoremediation by <i>Catharanthus roseus</i> | International Journal of Phytoremediatio, 20(6):581-592 | USA | 2.528 (03) |
| 64 | 2018 | Mehmood U and Faisal, M | Bacterial flora of <i>Arachis hypogea</i> plants from Punjab Pakistan | Int J Sci Basic Appl Res, 40(2): 78-86. | - | - |
| 65 | 2019 | Bano, A., Munir, I and Faisal, M | Impact of Phosphate Solubilizing Bacteria on Wheat (<i>Triticum aestivum</i>) In The Presence of Pesticides | Brazilian Journal of Biology, 79 (1): 29-37. | Brazil | 1.266 |
| 66 | 2019 | Ullah, Z., Jabeen, S., Faisal, M., Ahmad, H and Khalid, AN | <i>Leucoagaricus brunneus</i> sp. nov. from Khyber Pakhtunkhwa, Pakistan | Mycotaxon, 134: 601-611. | USA | 0.538 |
| 67 | 2020 | Shahid, S., Aslam, M.A., Ali, S., Zameer, M., Faisal, M | Self-Healing of cracks in Concrete using <i>Bacillus</i> strains encapsulated in Sodium alginate beads | ChemistrySelect, 5: 312-323 | Europe | 1.811 |
| 68 | 2020 | Ullah,Z; Khurshed, R; Khan, MB; Ahmad, I; Jabeen, S; Faisal, M; Ahmad, H; Fiaz, M; Khalid, AN. | <i>Melanoleuca kashmirensis</i> sp. nov. in subg. Urticocystis from Pakistan | Phytotaxa, 434 (1): 89-100 | New Zealand | 1.007 |
| 69 | 2020 | Rehman A, Anam, Saleem H, Tariq H, Javed S, Faisal M. | Selenium resistant bacteria enhance <i>Zea mays</i> growth parameters under selenium stress | Abasyn Journal of Life Sciences 2020; 3(2): 164-174. | Pak | |
| 70 | 2021 | Ayesha, S., Munir, R and Faisal, M | Antitumor effect of sodium selenite on acute lymphocytic leukemia | Journal of Cancer Research and Therapeutics, | India | 1.326 |

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|----|------|---|--|--|--------|-------|
| | | | | 17(1): 266-268 | | |
| 71 | 2021 | Zaheer, A., Munir, I and Faisal, M | Diversity of Phosphate Solubilizing Bacteria and their plant growth promoting attributes for the maintenance of sustainable agriculture system | Polish Journal of Environmental Studies (Accepted) | Poland | 1.383 |
| 72 | 2021 | Ziaullah, Jabeen, S., Zainab., Bashir, H., Faisal, M., Ahmad, H and Khalid, A.N | <i>Pholiota malakandensis</i> sp. Nov., in subg. <i>Flammuloides</i> from Pakistan | Nova Hedwigia, 113(1-2): 229-241 | | 1.0 |

Total Cites: 1000+ IF= 59.317

B) Research Paper/s in Proceedings

1. Neelam Zia and Muhammad Faisal. 2014. Detoxification of Selenite to Elemental Selenium by Exo-polysaccharides producing desert isolates. pp. 690-697. *EurAsia Waste Management Symposium, 28-30 April 2014, YTU 2010 Congress Center, İstanbul/Türkiye.*

C) Book/s

1. Huma Nawaz and Muhammad Faisal. 2012. Biosurfactant producing Bacteria: Screening and role in oil biodegradation. ISBN 978-3-659-16195-7. LAP Lambert Academic Publishing

D) Book Chapters in International Books (Springer, Elsevier, Taylor & Francis)

| <u>S. No</u> | <u>Year</u> | <u>Title of Chapter</u> | <u>Publisher</u> |
|--------------|-------------|--|------------------|
| 1 | 2007 | Afrasyab, S; Faisal, M and Hasnain, S. 2007. Induction of Salinity Tolerance in Plants through Indigenous Bacteria. Applications of Biotechnology Published by Avishankar Publisher India | Avishankar |
| 2 | 2014 | Muhammad Yasin, Muhammad Faisal and E.A.H. Pilon-Smits. 2013. Microbial-enhanced selenium biofortification of Wheat (<i>Triticum aestivum</i> L.). In: Selenium in the environment and human health (Gary S. Banuelos, Zhi-Qing Lin, Xuebin Yin), CRC Press, Taylor & Francis Group, USA. ISBN 978-1-138-00017-9. | Taylor & Francis |
| 3 | 2016 | Yasin M, El-Mehdawi AF, Faisal M. & Pilon-Smits EAH. 2015. Microbe-assisted selenium phytoremediation and phyto-management of natural seleniferous areas. Eds: Gary S. Banuelos et al. Selenium in the environment and human health. CRC Press 2015. pp 199-200, ISBN-978-1-138-02731-2. DOI:10.1201/b19204-101 | Taylor & Francis |
| 4 | 2016 | Muhammad Yasin, Iqra Munir and Muhammad Faisal. 2016. Can <i>Bacillus</i> spp enhance K ⁺ uptake in crops species pp163-170. In: Potassium Solubilizing Microorganisms for Sustainable Agriculture, V.S. Meena <i>et al.</i> (eds). Springer 2016. DOI 10.1007/978-81-322-2776-2_12 | Springer |
| 5 | 2016 | Iqra Munir and Muhammad Faisal. 2016. Plant Growth Promoting Bacteria: A good source for phytoremediation of metal | Springer |

- contaminated soil. In: Phytoremediation. Management of Environmental Contaminants, Volume 4. By AA Ansari, SS Gill, R Gill, GR Lanza, L Newman. Springer ISBN 978-319-41810-0
- 6 **2017** Zain ul Abadin, Muhammad Yasin and Muhammad Faisal. 2017. **Springer**
 Bacterial mediated Selenium Biofortification of *Triticum aestivum*: A strategy for improvement in Selenium phytoremediation and Biofortification. pp 299-315. In: Agriculturally Important Microbes for Sustainable Agriculture, Vol-I Plant Soil Microbe Nexus. ISBN 978-981-10-5588-1. Springer Nature Singapore Pve Ltd, 2017.
- 7 **2018** Hera Naheed Khan and Muhammad Faisal. 2018. **Springer**
 Phytoremediation of industrial wastewater by hydrophytes. In: Phytoremediation: Management of Environmental Contaminants Vol-6 by Ansari et al. pp. 179-200. Springer. DOI: 10.1007/978-3-319-99651-6
- 8 **2018** Ayesha Siddiqa and Muhammad Faisal. 2018. **Springer**
 Phytoremediation of chromium polluted soil using plants in conjunction with microbes. In: Phytoremediation: Management of Environmental Contaminants Vol-6 by Ansari et al. Springer. DOI: 10.1007/978-3-319-99651-6
- 9 **2020** Ayesha Siddiqa and Muhammad Faisal, 2020. **Springer**
 Heavy Metals: Source, toxicity mechanisms, health effects, nanotoxicology and their bioremediation. pp. 117-142. In: Contaminants in Agriculture: Sources, Impacts and Management Naeem et al. Eds Springer. <https://doi.org/10.1007/978-3-030-41552-5>. ISBN 978-3-030-41551-8
- 10 **2020** Hera Naheed Khan and Muhammad Faisal, 2020. **Springer**
 Planning and engineering strategies of agricultural wastes and their remediation strategies. pp. 219-232. In: Contaminants in Agriculture: Sources, Impacts and Management Naeem *et al.* Eds Springer. <https://doi.org/10.1007/978-3-030-41552-5>. ISBN 978-3-030-41551-8
- 11 **2021** Ayesha Siddiqa and Muhammad Faisal. 2021. **Elsevier**
 Microbial degradation of organic pollutants using indigenous bacterial strains. Pp. 625-637. In: Handbook of Bioremediation; Physiological, Molecular and Biotechnological Interventions, Mirza, H., M.N.V Prasad 1st Eds, Elsevier. ISBN 9780128193839
- 12 **2021** Uqba Mahmood and Muhammad Faisal. 2021. **Springer**
 Materialization of CO₂ from distilleries in Algae based biofuel and biomass. In: Sustainable Ethanol and Climate Change. Muhammad Arshad Eds. Springer. <https://doi.org/10.1007/978-3-030-59280-6>. ISBN 978-3-030-59279-0

BACTERIAL CULTURE COLLECTION

Chromium and Arsenic Resistant Strains

Acinetobacter sp. AsK07 Accession No. GQ503319; *Bacillus megaterium* strain AsK08 Accession No. GQ503320; *Pontibacter korlensis* strain AsK09 Accession No. GQ503321; *Bacillus* sp. AsK15 Accession No. GQ503322; *Bacillus subtilis* strain AsK18 Accession No. GQ503323; *Bacillus licheniformis* strain AsK03 Accession No. GQ503324; *Exiguobacterium* sp. AsK04 Accession No. GQ503325; *Bacillus pumilus* strain CrK08 Accession No. GQ503326; *Staphylococcus pasteurii* strain CrK14 Accession No. GQ503327; *Cellulosimicrobium cellulans* strain CrK16 Accession No. GQ503328; *Bacillus cereus* strain CrK20 Accession No. GQ503329; *Exiguobacterium* sp. CrK19 Accession No. GQ503330; *Bacillus licheniformis* strain CrK21 Accession No. GQ503331

Biosurfactant producing / Oil degrading Strains

Enterobacter sp. S1-8 Accession No. JN565979; *Acinetobacter* sp. S5-1 Accession No. JN544140; *Pseudomonas stutzeri* S7-13 Accession No. JN565980
Staphylococcus sp- Z1, *Enterobacter aerogenes*- Z3, *Enterobacter asburiae*- Z4, *Bacillus cereus*- Z5, *Bacillus anthracis*- Z6; *Pseudomonas aeruginosa*-S1, *Pseudomonas aeruginosa*-SC, *Enterobacter cloacae*-SF, *Pseudomonas aeruginosa*-M13

Plant Growth Promoting Strains

Pseudomonas aeruginosa PRM1 Accession No. JN544141; *Bacillus cereus* strain PRM2 Accession No. JN544142; *Exiguobacterium acetylicum* strain PRM3 Accession No. JN544143; *Comamonas* sp.-PRM4 Accession No. JN544144; *Exiguobacterium acetylicum*- PRM5 Accession No. JN544145; *Pseudomonas mendocina* -PRM6 Accession No. JN544146; *Bacillus licheniformis*- PRM7 Accession No. JN544147; *Acinetobacter* sp.- PRM8 Accession No. JN544148; *Lysinibacillus* sp.- PRM9 Accession No. JN544149; *Enterobacter* sp.- PRL1 Accession No. JN544150; *Bacillus subtilis* -PRL2 Accession No. JN544151; *Bacillus simplex* - PRL3 Accession No. JN544152; *Bacillus* sp.- PRL4 Accession No. JN544153; *Exiguobacterium* sp.- PRL5 Accession No. JN544154; *Bacillus* sp.- PRL6 Accession No. JN544155; *Pseudomonas* sp.- PRL7 Accession No. JN544156; *Pantoea* sp.- PRL8 Accession No. JN544157; *Pseudomonas aeruginosa* - PRL9 Accession No. JN544158; *Chryseobacterium gleum*-PRR1 Accession No. JN544159; *Bacillus pumilus* - PRR2 Accession No. JN544160; *Acinetobacter lwoffii*- PRR3 Accession No. JN544161; *Bacillus pumilus*- PRR4 Accession No. JN544162; *Acinetobacter* sp. - PRR5 Accession No. JN544163; *Brevibacillus laterosporus*- PRR6 Accession No. JN544164; *Pseudomonas aeruginosa* - PRR7 Accession No. JN544165

Bacillus subtilis- CSH27, *Bacillus cereus*- Cu47, *Bacillus axarquiensis*- CF18, *Bacillus* sp.- CSH23, *Bacillus safensis*- CN17, *Bacillus cereus*- CMS17, *Bacillus endophyticus*- CU33, *Bacillus subtilis*- CN2, *Bacillus pumilus*- CSH7, *Bacillus cereus*- CMS7, *Bacillus pumilus*- CSH4, *Bacillus subtilis*- WRY23, *Bacillus* sp- WM3, *Bacillus cereus*- WSK9, *Bacillus anthracis*- WUS2, *Bacillus thuringiensis*- WG5, *Bacillus anthracis*- WFS6, *Bacillus amyloliquefaciens*- WSH8, *Bacillus* sp.- WG1, *Bacillus anthracis*- WRY1, *Bacillus subtilis*- WRY11, *Bacillus cereus*- WFS20, *Bacillus subtilis*- WL22, *Bacillus anthracis*- WSH13, *Bacillus subtilis*- WSK11, *Bacillus pseudomycoloides*- WSK6

Selenium Resistant Plant Growth Promoting Strains

Bacillus foraminis-YAK-1 Accession No. JX203248; *Bacillus thuringiensis* serovar finitimus-YAK2 Accession No. JX203249; *Bacillus licheniformis*-YAK4 Accession No. JX203250; *Proteus penneri*-YAK6 Accession No. JX203251; *Bacillus endophyticus*-YAK7 Accession No. JX203252; *Bacillus licheniformis*-YAP1 Accession No. JX203253; *Bacillus cereus*-YAP6 Accession No. JX203254; *Bacillus licheniformis*-YAP7 Accession No. JX203255; *Bacillus endophyticus*-YAM1 Accession No. JX203256; *Bacillus pichinotyi*-YAM2 Accession No. JX203257; *Bacillus jeotgali*-YAM3 Accession No. JX203258; *Bacillus licheniformis*-YAM4 Accession No. JX203259

Salt Tolerant Plant Growth Promoting Strains (Soil)

Exiguobacterium profundum-B9 Accession No. JX112643; *Bacillus pumilus*-B10 Accession No. JX112644; *Pseudomonas* sp.-B12 Accession No. JX112645; *Pseudomonas stutzeri*-B15 Accession No. JX112646; *Bacillus licheniformis*-B16 Accession No. JX112647; *Bacillus subtilis*-B18 Accession No. JX112651; *Bacillus flexus*-B32 Accession No. JX112648; *Bacillus* sp.-B33 Accession No. JX112649;

Pseudomonas fluorescens-IM12 Accession No. JX112652; *Bravibacterium fugoritolerans*-IM20 Accession No. JX112650

Salt Tolerant Plant Growth Promoting Strains (Water)

Pseudomonas mandocina-SM05 Accession No. JX102498; *Pseudomonas pseudoalcaligenes*-M10 Accession No. JX105525; *Microbacterium* sp.-M18 Accession No. JX105526; *Pseudomonas stutzeri*-M19 Accession No. JX105527; *Sphingobacterium* sp.-M30 Accession No. JX102496; *Pseudomonas* sp.-M39 Accession No. JX105528; *Bacillus pumilis*-M45 Accession No. JX102495; *Bacillus subtilis*-M50 Accession No. JX102497; *Bacillus licheniformis*-B37 Accession No. JX105529

Lactic acid bacteria

Lactobacillus fermentum- F1, *Lactobacillus brevis*- F3

Phosphate solubilizing bacteria (Soil)

Pseudomonas putida- Rad-2, *Acinetobacter baumannii*- JA-10, *Pseudomonas oryzihabitans*- Sud-F, *Pseudomonas fulva*- Ros-1, *Pseudomonas aeruginosa*- R-15, *Acinetobacter* sp- L-6, *Pseudomonas frederiksbergensis*- L-22, *Acinetobacter* sp- S6-2, *Pseudomonas* sp- Ros-2, *Pseudomonas koreensis*- L-20, *Ochrobactrum haematophilum*- M-6, *Pseudomonas putida*- SL8, *Enterobacter aerogenes*- W-96, *Pseudomonas* sp- UPG

Biosurfactant producing bacteria

Staphylococcus hominis-F1 Accession No. MT107124; *Staphylococcus* sp.F9 Accession No. MT107125; *Staphylococcus hominis*-F19 Accession No. MT107126; *Paenibacillus* sp.S6 Accession No. MT107127; *Paenibacillus lactis*-SJ1 Accession No. MT107128; *Bacillus safensis*- SJ4 Accession No. MT107129; *Bacillus paranthracis*- SJ10 Accession No. MT103046; *Vagococcus fluvialis*- SJ12 Accession No. MT103047; *Bacillus flexus*- SJ15 Accession No. MT103048; *Bacillus altitudinis*- SJ17 Accession No. MT103049; *Bacillus* sp. SJ19 Accession No. MT103050; *Bacillus flexus*- SJ20 Accession No. MT103051; *Bacillus oceanisediminus*- SJ32 Accession No. MT103052; *Sporosarcina saromensis*- SJ36 Accession No. MT103053; *Bacillus cereus*- SJ37 Accession No. MT103054; *Staphylococcus haemolyticus*- SJ39 Accession No. MT103055; *Bacillus pumilus*- SJ40 Accession No. MT103056; *Bacillus flexus*-SJ41 Accession No. MT103057; *Pseudomonas aeruginosa*-SU2 Accession No. MT093463; *Sporosarcina saromensis*-U8 Accession No. MT103058