

Rabia Amir

Associate Professor

Atta-Ur-Rahman School of Applied Biosciences

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About

Dr. Rabia Amir is working as Associate Professor in the Atta-Ur-Rahman School of Applied Biosciences. Dr. Rabia Amir has a PhD in Plant Cell And Molecular Biology. Dr. Rabia Amir has published 75 research articles & conference papers having a citation count of 669, carried out 3 projects and filed 0 intellectual property.

Qualifications

PhD in Plant Cell And Molecular Biology University of Edinburgh , United Kingdom	2010 - 2014
MS in Plant Breeding And Genetics Arid Agriculture University , Pakistan	2006 - 2008
B.Sc (Hon) in Plant Breeding And Genetics Arid Agriculture University , Pakistan	2002 - 2006

Experience

Associate Professor Atta-Ur-Rahman School of Applied Biosciences	2021- Present
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2018 - 2021
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2015 - 2018
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2015 - 2015
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2014 - 2015

Awards

HEC overseas scholarship HEC Overseas scholarship awarded for PhD degree (University of Edinburgh, UK)	2009
Silver medal Awarded Silver medal in Master of science (honours) Agriculture.	2009
Gold Medal Awarded gold medal for highest CGPA in Bachelor of science (honours) Agriculture.	2007
Gold Medal Awarded gold medal for highest percentage in year 2006 in entire university.	2007

Research Projects

National Projects

Elucidating the effects of organic amendment and nitrogen sources on flavonoids and nitrogen fixation in <i>Arachis hypogaea</i> . Funding Agency: HEC Amount: PKR 11,260,000.00 Status: Approved_inprocess	2022
Unraveling the effect of physiological factors in transcription of genes involved in flavonoid biosynthetic pathway in <i>Arachis Hypogaea</i> Funding Agency: Higher Education Comission (HEC), Pakistan Amount: PKR 445,000.00 Status: Completed	2016
Expression analysis of potential flavonoid biosynthetic pathway genes in cultivated peanut (<i>Arachis hypogaea</i>) Funding Agency: Higher Education Comission (HEC), Pakistan Amount: PKR 526,000.00 Status: Completed	2015

International Projects

Research Articles

Genome-wide association of root growth angle, seminal root numbers, and leaf area in the synthetic hexaploid wheat diversity panel <i>Maria Khalid Zoya Khalid Zubair Khalid Lee Hickey Awais Rasheed Alvina Gul Rabia Amir</i> <i>Plant Gene</i> , Volume:43, Article Number 100507 Impact Factor: 2.200 Quartile: 2 DOI: https://doi.org/10.1016/j.plgene.2025.100507	2025
Arabidopsis Antiporter Genes as Targets of NO Signalling: Phylogenetic, Structural, and Expression Analysis <i>Rabia Amir Zuhra Qayyum Sajeel Hussain Byung Wook Yun Adil Hussain Bong-Gyu Mun</i> <i>International Journal of Molecular Sciences</i> , Volume 26(15), Article Number 7195 Impact Factor: 4.900 Quartile: 1 DOI: https://doi.org/10.3390/ijms26157195	2025
Photo-Induced Synthesis of Silver Nanoparticles Using <i>Bacillus safensis</i> as Elicitors for Enhanced Growth of Fenugreek in Hydroponic <i>Linta Jadoon Alvina Gul Hunaiza Fatima Rabia Amir Faiza Munir MUASTAFEEZ MUJTABA BABAR</i> <i>Applied Biochemistry and Biotechnology</i> , Pages:21 Impact Factor: N/A Quartile: 2 DOI: https://doi.org/10.1007/s12010-025-05313-1	2025
Evaluation of Wheat Landrace Germplasm for Agronomic Disease Susceptibility and Quality Traits Using Kompetitive Allele-Specific PCR (KASP) Markers <i>Sumaira Salahudin Loddhi Alvina Gul Peter John Rabia Amir Faiza Munir Muhammad Jamil Hadi Alipour Bengu Turkiyalamaz Unal Munir Ozturk</i> <i>Anadolu Journal of Agricultural Sciences</i> , Volume 40, No. 2, Pages 221-238 Impact Factor: N/A DOI: https://doi.org/10.7161/omuanajas.1561421	2025
Fulvic acid-releasing chitosan nanoparticles promote the growth and salt stress tolerance of soybean plants <i>Tiba Nazar Ibrahim Al-Azawi Murtaza Khan Mwondha Faluku Alexander Brown Da-Sol Lee Ashim Kumar Das Rabia Amir Liny Lay Bong-Gyu Mun Yoohna Kim Adil Hussian Byung-Wook Yun Vu Ngoc Huy Nusrat Jahan Methela</i> <i>Physiologia Plantarum</i> , Volume 177, Issue 3, Article Number e70254 Impact Factor: 5.400 Quartile: 1 DOI: https://doi.org/10.1111/ppl.70254	2025
In silico identification and functional annotation of universal stress protein (USP) gene family in <i>Chenopodium quinoa</i> <i>Hajira Imran Alvina Gul Rehan Zafar Paracha Rabia Amir Faiza Munir Muhammad Faraz Bhatti</i> <i>Scientific Reports</i> , Volume 15, Article Number 18264	2025

Impact Factor: 3.800 Quartile: 1 DOI: https://doi.org/10.1038/s41598-025-03264-5	
An A-6 subgroup member of DREB gene family positively regulates cold stress tolerance by modulating an antioxidant defense system in transgenic potato <i>Saba Azeem Faiza Munir Alvina Gul Rabia Amir</i> <i>Scientific Reports</i> , Volume 15, Article Number: 15421 Impact Factor: 3.800 Quartile: 1 Citations: 1 DOI: 10.1038/s41598-025-98886-0	2025
Molecular modelling and gene expression analysis to probe the GT-γ trihelix transcription factors in Solanum tuberosum under drought stress <i>Tayyaba Bint Tariq Faiza Munir ISHRAT JABEEN Alvina Gul Rabia Amir</i> <i>Scientific Reports</i> , Volume 15, Article Number: 12471 Impact Factor: 3.800 Quartile: 1 DOI: https://doi.org/10.1038/s41598-025-96485-7	2025
Overexpression of StDREB30 Gene Enhances Salt Stress Tolerance in Transgenic Potato <i>Qurat-ul-ain Ali Faiza Munir Muhammad Faraz Bhatti Rabia Amir Alvina Gul</i> <i>Potato Research</i> , Pages 1-23 Impact Factor: 2.300 Quartile: 1 DOI: https://doi.org/10.1007/s11540-024-09811-3	2024
Biochar and PGPR: A Winning Combination for Peanut Growth and Nodulation under Dry Spell <i>Tashfeen Alam Fatima Bibi Hunaiza Fatima Faiza munir Alvina Gul Ghulam Haider Muhammad Jahanzaib Rabia Amir</i> <i>Journal of Soil Science and Plant Nutrition</i> , Pages: 16 Impact Factor: 3.4 Quartile: 1 Citations: 2 DOI: https://doi.org/10.1007/s42729-024-02067-3	2024
Cloning and overexpression of the DREB30 gene enhances drought and osmotic stress tolerance in transgenic potato <i>Qurat Ul Ain Ali Faiza Munir Muhammad Tahir Rabia Amir Alvina Gul</i> <i>Journal of Plant Interactions</i> , Volume 19, No. 1, Article Number 2364656 Impact Factor: 2.600 Quartile: 2 Citations: 4 DOI: 10.1080/17429145.2024.2364656	2024
Alkaloid rich hydroponic chili for AgNPs synthesis against multidrug resistant Staphylococcus aureus infected burn wounds <i>Hunaiza Fatima Alvina Gul Linta Jadoon Syed Damin Abbas Hamdani Tausif Ahmed Rajput Rabia Amir Faiza Munir Mustafeez Mujtaba Babar</i> <i>Process Biochemistry</i> , Volume: 141, Pages 170-178 Impact Factor: 4.4 Quartile: 2 Citations: 1 DOI: 10.1016/j.procbio.2024.03.014	2024
Genome-wide analysis of heavy metal ATPases (HMAs) in Poaceae species and their potential role against copper stress in Triticum aestivum <i>Tuba Sharf Batool Alvina Gul Rehan Zafar Paracha Mahnoor Ilyas Kathryn De Abreu Faiza Munir Rabia Amir Lorraine E. Williams Roohi Aslam</i> <i>Scientific Reports</i> , Volume 13, Article Number 7551 Impact Factor: 4.996 Quartile: 2 Citations: 11 DOI: https://doi.org/10.1038/s41598-023-32023-7	2023
An integrated remediation approach using combinations of biochar, Rhizobium leguminosarum, and Vigna radiata for immobilizing and dissipating cadmium contaminants from the soil–mustard plant system <i>Qurat-ul-Ain Hira Midhat Mehboob Rimsha Azhar Faiza Munir Alvina Gul Asim Hayat Tariq Shah Rabia Amir</i> <i>Frontiers in Plant Science</i> , Volume 14, Article Number 1139136 Impact Factor: 6.627 Quartile: 1 Citations: 2 DOI: 10.3389/fpls.2023.1139136	2023
Anti-MRSA potential of biogenic silver nanoparticles synthesized from hydroponically grown Foeniculum vulgare <i>Hunaiza Fatima Syed Damin Abbas Hamdani Madiha Ahmed Tausif Ahmed Rajput Alvina Gul Rabia Amir Faiza Munir Sohaib Zafar Malik Mustafeez Mujtaba Babar</i> <i>Phytomedicine Plus</i> , Volume 3, Issue 1, Article Number 100415 Impact Factor: N/A Citations: 15 DOI: https://doi.org/10.1016/j.phyplu.2023.100415	2023

Genome-wide identification, comprehensive characterization of transcription factors, cis-regulatory elements, protein homology, and protein interaction network of DREB gene family in <i>Solanum lycopersicum</i> <i>Hajra Maqsood Faiza Munir Rabia Amir Alvina Gul</i> <i>Frontiers in Plant Science</i> , Volume 13, Article Number 1031679 Impact Factor: 6.627 Quartile: 1 Citations: 26 DOI: https://doi.org/10.3389/fpls.2022.1031679	2022
Genome wide identification and characterization of nodulation related genes in <i>Arachis hypogaea</i> <i>Kiran Khurshid Anum Akram Ahmad Ali Faiza Munir Alvina Gul Ghulam Haider Zuhra Qayyum Rabia Amir</i> <i>PLOS ONE</i> , Volume 17, Issue 9, Article Number e0273768 Impact Factor: 3.752 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1371/journal.pone.0273768	2022
Identification and Expression Analysis of Stilbene Synthase Genes in <i>Arachis hypogaea</i> in Response to Methyl Jasmonate and Salicylic Acid Induction <i>Zuhra Qayyum Fatima Noureen Maryam Khan Marrium Khan Ghulam Haider Faiza Munir Alvina Gul Rabia Amir</i> <i>Plants</i> , Volume 11, Issue 13, Article Number 1776 Impact Factor: 4.658 Quartile: 1 Citations: 10 DOI: https://doi.org/10.3390/plants11131776	2022
Photoperiod and water-deficient conditions differentially regulate structural flavonoid biosynthetic genes in peanuts <i>Maryam Khan Saman Taufiq Irum Nauman Norina Noor Tooba Iqbal Hina Ali Rehan Zafar Paracha Faiza Munir Alvina Gul Rabia Amir</i> <i>Journal of Plant Interactions</i> , Volume 17(1), Pages 620-631 Impact Factor: 4.208 Quartile: 1 Citations: 1 DOI: https://doi.org/10.1080/17429145.2022.2076940	2022
Genome-wide promoter analysis, homology modeling and protein interaction network of Dehydration Responsive Element Binding (DREB) gene family in <i>Solanum tuberosum</i> <i>Qurat-ul-ain Ali Nida Mushtaq Rabia Amir Alvina Gul Muhammad Tahir Faiza Munir</i> <i>PLoS One</i> , Volume 16(12), Article Number e0261215 Impact Factor: 3.240 Quartile: 2 Citations: 42 DOI: 10.1371/journal.pone.0261215	2021
Genetic gain and G × E interaction in bread wheat cultivars representing 105 years of breeding in Pakistan <i>Uzma Hanif Alvina Gul Rabia Amir Faiza Munir Mark E. Sorrells Hugh G. Gauch Zahid Mahmood Abid Subhani Muhammad Imtiaz Awais Rasheed Hadi Alipour Zhonghu He</i> <i>Crop Science</i> , Volume 62, Issue 1, Pages 178-191 Impact Factor: 2.319 Quartile: 2 Citations: 10 DOI: https://doi.org/10.1002/csc2.20655	2021
Potassium and salicylic acid function synergistically to promote the drought resilience through upregulation of antioxidant profile for enhancing potassium use efficiency and wheat yield <i>Rabia Amir Fazal Munsif Umar Farooq Muhammad Arif Tariq Shah Muhammad Jehangir Sajjad Zaheer Kashif Akhtar Muhammad Shahid Khan Ijaz Ahmad Wiqar Ahmad Shamsher Ali</i> <i>Annals of Applied Biology</i> , Pages 1-10 Impact Factor: 2.750 Quartile: 2 Citations: 10 DOI: https://doi.org/10.1111/aab.12731	2021
Characterization of the genetic basis of local adaptation of wheat landraces from Iran and Pakistan using genome-wide association study <i>Uzma Hanif Hadi Alipour Alvina Gul Kazi Li Jing Reza Darvishzadeh Rabia Amir Faiza Munir Muhammad Kashif Ilyas Abdul Ghafoor Sadar Uddin Siddiqui Amy Bernado Paul St. Amand Guihua Bai Awais Rasheed Zhonghu He Huihui Li Kai Sonder</i> <i>Plant Genome</i> , Article Number e20096, Pages 1-17 Impact Factor: 4.219 Quartile: 1 Citations: 10 DOI: DOI: 10.1002/tpg2.20096	2021
Genome-wide analysis, identification, evolution and genomic organization of dehydration responsive element-binding (DREB) gene family in <i>Solanum tuberosum</i> <i>Nida Mushtaq Faiza Munir Alvina Gul Rabia Amir Rehan Zafar Paracha</i> <i>PeerJ</i> , Volume 9, Article Number e11647 Impact Factor: 3.061 Quartile: 2 Citations: 26 DOI: 10.7717/peerj.11647	2021

- Expression Characterization of Flavonoid Biosynthetic Pathway Genes and Transcription Factors in Peanut Under Water Deficit Conditions** 2021
Ghulam Kubra Maryam Khan Faiza Munir Alvina Gul Tariq Shah Adil Hussain David Caparros-Ruiz Rabia Amir
Frontiers in Plant Science, Volume 12, Article Number 680368
Impact Factor: 6.627 | **Quartile:** 1 | **Citations:** 17
DOI: <https://doi.org/10.3389/fpls.2021.680368>
- Chemical and Biological Enhancement Effects of Biochar on Wheat Growth and Yield Under Arid Field Conditions** 2021
Zarmeena Khan Muhammad Habib ur Rahman Ghulam Haider Rabia Amir Rao Muhammad Ikram Shakeel Ahmad Hannah Kate Schofield Bilal Riaz Rashid Iqbal Shah Fahad Rahul Datta Alaa Baazeem Ayman EL Sabagh Subhan Danish
Sustainability, Volume 13(11), Article Number 5890
Impact Factor: 3.889 | **Quartile:** 2 | **Citations:** 45
DOI: <https://doi.org/10.3390/su13115890>
- Evaluating the cleavage efficacy of CRISPR-Cas9 sgRNAs targeting ineffective regions of Arabidopsis thaliana genome** 2021
Afsheen Malik Alvina Gul Faiza Munir Rabia Amir Hadi Alipour Mustafeez Mujtaba Babar Syeda Marriam Bakhtiar Rehan Zafar Paracha Zoya Khalid Muhammad Qasim Hayat
PeerJ, Volume 9, Article Number e11409
Impact Factor: 3.061 | **Quartile:** 2 | **Citations:** 8
DOI: <https://doi.org/10.7717/peerj.11409>
- Molecular characterization of Leucoanthocyanidin reductase and Flavonol synthase gene in Arachis hypogaea** 2021
rabia amir Faiza Munir Alvina Gul Ghulam Kubra Maryam Khan Sidra Hussain Tooba Iqbal Jan Muhammad Hina Ali
Saudi Journal of Biological Sciences, Volume 28, Issue 4, Pages 2301-2315
Impact Factor: 4.052 | **Quartile:** 2 | **Citations:** 8
DOI: <https://doi.org/10.1016/j.sjbs.2021.01.024>
- Classification and Computational Analysis of Arabidopsis thaliana Sperm Cell-Specific F-Box Protein Gene 3p.AtFBP113** 2020
Afsheen Malik Alvina Gul Rabia Amir Faiza Munir Mustafeez Mujtaba Babar Syeda Marriam Bakhtiar Muhammad Qasim Hayat Rehan Zafar Paracha Zoya Khalid Hadi Alipour
Frontiers in Genetics, Volume 11, Article Number 609668
Impact Factor: 4.599 | **Quartile:** 2 | **Citations:** 2
DOI: [doi: 10.3389/fgene.2020.609668](https://doi.org/10.3389/fgene.2020.609668)
- Isolation and functional characterization of an Ethylene Response Factor (RhERF092) from rose (Rosa hybrida)** 2019
Rabia Amir Muhammad Ali Khan Muhammad Imtiaz Adil Hussain Fazal Jalal Sikandar Hayat Sayed Hussain Fazal Said Mehboob Alam
Plant Cell, Tissue and Organ Culture (PCTOC), Pages 1-16
Impact Factor: 2.196 | **Quartile:** 3 | **Citations:** 4
DOI: <https://doi.org/10.1007/s11240-019-01719-y>
- Timing and ecological priority shaped the diversification of sedges in the Himalayas** 2019
Uzma Pedro Jiménez-Mejías Andrew L. Hipp Rabia Amir Muhammad Qasim Hayat
PeerJ, Volume: 7 Article Number: e6792
Impact Factor: 2.379 | **Quartile:** 2 | **Citations:** 8
DOI: [10.7717/peerj.6792](https://doi.org/10.7717/peerj.6792)
- Molecular characterization of 87 functional genes in wheat diversity panel and their association with phenotypes under well-watered and water-limited conditions** 2019
Maria Khalid Fakiha Afza Abid Subhani Zahid Mahmood Xianchun Xia Awais Rasheed Zhonghu He Zubair Ahmed Alvina Gul rabia amir
Frontier in Plant Sciences, Volume 10, Article Number 717
Impact Factor: 4.402 | **Quartile:** 1 | **Citations:** 49
DOI: [10.3389/fpls.2019.00717](https://doi.org/10.3389/fpls.2019.00717)
- Pattern of Diversity among Pistillate Scales of the Western Himalayan Carex spp. (Cyperaceae): Micromorphological and Molecular Inferences** 2019
Uzma Betty Strack Zahid Ullah Andrew L. Hipp Rabia Amir Muhammad Qasim Hayat
International Journal of Agriculture and Biology, Volume 21, Issue 3, Pages 659-666
Impact Factor: 0.822 | **Quartile:** 3 | **Citations:** 1
DOI: [10.17957/IJAB/15.0942](https://doi.org/10.17957/IJAB/15.0942)

Karnal Bunt Resistance in Synthetic Hexaploid/Bread Wheat Derivatives	2018
<i>Sameen Ruqia Imadi Rabia Amir Sumaira Salah-ud-Din Lodhi Peter John Abdul Mujeeb Kazi Alvina Gul</i> <i>NUST Journal of Natural Sciences</i> , Volume 4, Issue: 1, Pages .83-99	
Impact Factor: - DOI: NA	
Characterization of Differentaegilopstauschii Accessions in Similar Durum Wheat Background	2018
<i>Ghulam Kubra Rabia Amir Mehmoona Ilyas Fakiha Afzal Muhammad Jamil Attiq-ur-Rehman Rattu Shehzad Asad Muhammad Fayyaz Abdul Mujeeb-Kazi Alvina Gul</i> <i>NUST Journal of Natural Sciences</i> , Volume 4, Issue: 1, Pages 64-82	
Impact Factor: - DOI: NA	
Characterization of Wheat Cell Wall Invertase Genes Associated with Drought Tolerance in Synthetic-Derived Wheat	2018
<i>Maria Khalid Zoya Khalid Alvina Gul Rabia Amir Zubair Ahmad</i> <i>International Journal of Agriculture and Biology</i> , Volume 20(12), Pages 2677-2684	
Impact Factor: 0.802 Quartile: 3 Citations: 4 DOI: 10.17957/IJAB/15.0809	
QTL mapping for seedling morphology under drought stress in wheat cross synthetic (W7984)/Opata	2018
<i>Maria Khalid Alvina Gul Rabia Amir Mohsin Ali Fakiha Afzal Umar Masood Quraishi Zubair Ahmed Awais Rasheed</i> <i>Plant Genetic Resources:Characterization and Utilization</i> , Pages 1-8	
Impact Factor: 0.717 Quartile: 4 Citations: 11 DOI: 10.1017/S1479262118000023	
Phenotypic and genotypic characterization of wheat landraces of Pakistan	2014
<i>Rabia Amir Nasir M. Minhas Alvina Gul Sumaira Farrakh Ahmad Ali Hadi Bux A. Mujeeb-Kazi</i> <i>Emirates Journal of Food and Agriculture</i> , Volume 26 Issue 2 Pages 157-163 Special Issue SI	
Impact Factor: 0 Citations: 7 DOI: 10.9755/ejfa.v26i2.17008	
Plant natural products: history, limitations and the potential of cambial meristematic cells	2012
<i>BYUNG-WOOK YUN SUNMI HONG EUN-KYONG LEE ZEJUN YAN YOUNG-WOO JIN GARY J. LOAKE RABIA AMIR</i> <i>Biotechnology and Genetic Engineering Reviews</i> , Volume 28, Issue 1, Pages 47-59	
Impact Factor: 1.312 Quartile: 3 Citations: 42 DOI: 10.5661/bger-28-47	
Cultured cambial meristematic cells as a source of plant natural products	2010
<i>Eun-Kyong Lee Young-Woo Jin Joong Hyun Park Young Mi Yoo Sun Mi Hong Rabia Amir Zejun Yan Eunjung Kwon Alistair Elfick Simon Tomlinson Florian Halbritter Thomas Waibel Byung-Wook Yun Gary J Loake</i> <i>Nature Biotechnology</i> , Volume 28, Issue 11, Pages 1213-U111	
Impact Factor: 31.09 Quartile: 1 Citations: 162 DOI: 10.1038/nbt.1693	

Conference Proceedings

Cracking the plant stress code: Elevating oil quality and yield for sustainable harvests	2024
<i>Rabia Amir</i> <i>The 5th Forum Conference 2024</i> , res.country(178,)	
Citations: N/A DOI: Nil	
Expression profiling of potential flavonoid biosynthetic pathway genes in Arachis hypogaea under abiotic stress	2017
<i>Rabia Amir</i> <i>International conference on tackling climatic change through plant breeding</i> , res.country(177,)	
Citations: N/A DOI: N/A	

Book Chapters

Signaling and Regulatory Pathways Between Plants and Microbial Communities Towards Environments	2025
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<i>Maryam Khan Aroma Jannat Zuhra Qayyum Nosheen Fatima Muhammad Sayeed Akhtar Rabia Amir</i> In: <i>Agricultural Biotechnology: Issues, Challenges, and Recent Developments</i>, 1st Edition, Chapter 6, Pages 131-153 Citations: N/A DOI: https://doi.org/10.1201/9781003638087	
Current progress in CRISPR–Cas systems for cancer <i>Hunaiza Fatima Hajira Ali Raja Rabia Amir Alvina Gul Mustafeez Mujtaba Babar Jayakumar Rajadas</i> In: <i>Progress in Molecular Biology and Translational Science</i>, Chapter: 09, Volume: 208, Pages: 211-229 Citations: 1 DOI: https://doi.org/10.1016/bs.pmbts.2024.07.007	2024
Genome engineering in cotton (<i>Gossypium hirsutum</i>) <i>Maria Sharif Uzma Maria Abdul Salam Afsheen Malik Shahruxh Khan Kiran Kainat Sherin Rabia Amir Sami Ullah Jan Alvina Gul Muhammad Jamil</i> In: <i>Book on Targeted Genome Engineering via CRISPR/Cas9 in Plants</i>, 1st Edition, Chapter 2, Pages Citations: N/A DOI: 10.1016/B978-0-443-26614- 0.00012-6	2024
Genome engineering and bioethics <i>Kiran Khurshid Rabia Amir Alvina Gul Wajahat Maqsood M. Awais Junaid Faiq M. Sabih Hina Javed</i> In: <i>Book on Targeted Genome Engineering via CRISPR/Cas9 in Plants</i>, 1st Edition, Chapter 22, Pages: 421-432 Citations: N/A DOI: https://doi.org/10.1016/B978-0-443-26614-0.00021-7	2024
Industrial applications of genetic engineering <i>Rabia Amir Anum Akram Zeeshan Zafar Sidra Fatima Qurat ul ain Sani</i> In: <i>Book on Targeted Genome Engineering via CRISPR/Cas9 in Plants</i>, 1st Edition, Chapter 10, Pages 393-408 Citations: N/A DOI: https://doi.org/10.1016/B978-0-443-26614-0.00006-0	2024
Genome engineering in sorghum <i>Maria Gillani Qurat Ul Ain Ali Faiza Munir Sarah Fatima Alvina Gul Rabia Amir Muhammad Ammar Ashar Hafiz Imran Fakhar</i> In: <i>Book on Targeted Genome Engineering via CRISPR/Cas9 in Plants</i>, 1st Edition, Chapter 15, Pages 297-311 Citations: N/A DOI: https://doi.org/10.1016/B978-0-443-26614-0.00009-6	2024
Genomic engineering in peanut <i>Ahmad Ali Rabia Amir Alvina Gul Faiza Munir Kainat Ahmad Anum Akram</i> In: <i>Book on Targeted Genome Engineering via CRISPR/Cas9 in Plants</i>, 1st Edition, Chapter 8, Pages 159-175 Citations: 1 DOI: https://doi.org/10.1016/B978-0-443-26614-0.00018-7	2024
Genetic Transformation Methods in Cereal Crops <i>Noor-ul-Ain Malik Faiza Munir Saba Azeem Rabia Amir Maria Gillani Alvina Gul Aneela Mustafa Nosheen Fatima</i> In: <i>Book on Cereal Crops: Genetic Resources and Breeding Techniques</i>, 1st Edition, Chapter 12, Pages 269-290 Citations: N/A DOI: 10.1201/9781003250845-12	2023
Metabolic Responses in Plants under Abiotic Stresses <i>Ahmad Ali Kiran Khurshid Namrah Ahmed Nida Mushtaq Rabia Amir Faiza Munir</i> In: <i>Book on Cereal Crops: Genetic Resources and Breeding Techniques</i>, 1st Edition, Chapter 10, Pages 201-233 Citations: N/A DOI: 10.1201/9781003250845-10	2023
Metabolomics-Assisted Breeding for Enhancing Yield and Quality of Cereals <i>Qurat ul Ain Sani Nosheen Fatima Qurat ul Ain Ali Hira Rimsha Azhar Midhat Mahboob Salman Nawaz Faiza Munir Rabia Amir</i> In: <i>Book on Cereal Crops: Genetic Resources and Breeding Techniques</i>, 1st Edition, Chapter 9, Pages 173-200 Citations: N/A DOI: 10.1201/9781003250845-9	2023
Phytohormones, plant growth and development <i>Noor Ul Ain Malik Oushna Fajer Laiba Amin Attiya Rubab Khalid Nabia Khan Muhammad Faraz Bhatti Faiza Munir Ghulam Haider Rabia Amir Alvina Gul</i> In: <i>Phytohormones and Stress Responsive Secondary Metabolites</i>, Chapter 14, Page:175-186 Citations: 3 DOI: 10.1016/B978-0-323-91883-1.00014-0	2023

Phenomics	2022
<i>Saima Siddique Madeeha Hamid Alvina Gul Namra Haq Rabia Amir Volkan Altay Munir Ozturk</i>	
In: <i>Book on Introduction and Application of Organic Fertilizers as Protectors of Our Environment</i> , Chapter 13, Pages 307-339	
Citations: N/A	
DOI: DOI: ----	
Organelleomics: Mitochondria and Chloroplast of Plants	2022
<i>Bukhtawar Fatima Tahira Khan Namra Haq Rabia Amir Alvina Gul Volkan Altay Munir Ozturk</i>	
In: <i>Book on Introduction and Application of Organic Fertilizers as Protectors of Our Environment</i> , Chapter 21, Pages 471-493	
Citations: N/A	
DOI: Doi-1-	
Biochemical and Molecular Mechanisms of Abiotic Stress Tolerance	2020
<i>Maryam Khan Arooma Jannat Rabia Amir Faiza Munir Nosheen Fatima</i>	
In: <i>Book on Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives II</i> , Chapter 9, Pages 187-230	
Citations: 16	
DOI: 10.1007/978-981-15-2172-0	
Plant Signalling Under Adverse Environment	2020
<i>Qurat-ul-Ain Sani Wajahat Maqsood Adil Hussain Rabia Amir Faiza Munir</i>	
In: <i>Book on Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives I</i> , Chapter 21, Pages 605-624	
Citations: 16	
DOI: 10.1007/978-981-15-2156-0	
Overview of the prospective strategies for conservation of genomic diversity in wheat landraces	2020
<i>Sumaira Salahuddin Lodhi Shafia Maryam Khola Rafique Atif Shafique Zeeshan Ali Yousaf Abdul Mohaimen Talha Alvina Gul Rabia Amir</i>	
In: <i>Book on Climate Change and Food Security with Emphasis on Wheat - 1st Edition</i> , Chapter 21, Pages 293-309	
Citations: 11	
DOI: https://doi.org/10.1016/B978-0-12-819527-7.00021-2	
Genomic selection in wheat breeding	2020
<i>Jin Sun Maryam Khan Rabia Amir Alvina Gul</i>	
In: <i>Book on Climate Change and Food Security with Emphasis on Wheat</i> , Chapter 23, Pages 321-330	
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Next-generation sequencing in bread wheat	2020
<i>Kainat Rauf Rabia Rahman Adeena Saeed Muhammad Ali Fatima Noureen Rabia Amir Alvina Gul</i>	
In: <i>Book on Climate Change and Food Security with Emphasis on Wheat</i> , Chapter 22, Pages 311-320	
Citations: 3	
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