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 668, carried out 3 projects and filed 0 intellectual property.

Qualifications

PhD in Plant Cell And Molecular Biology 2010 - 2014
University of Edinburgh , United Kingdom

MS in Plant Breeding And Genetics 2006 - 2008
Arid Agriculture University , Pakistan

B.Sc (Hon) in Plant Breeding And Genetics 2002 - 2006
Arid Agriculture University , Pakistan

Experience

Associate Professor 2021- Present
Atta-Ur-Rahman School of Applied Biosciences

Assistant Professor 2018 - 2021
Atta-Ur-Rahman School of Applied Biosciences

Assistant Professor 2015 - 2018
Atta-Ur-Rahman School of Applied Biosciences

Assistant Professor 2015 - 2015
Atta-Ur-Rahman School of Applied Biosciences

Assistant Professor 2014 - 2015
Atta-Ur-Rahman School of Applied Biosciences

Awards

HEC overseas scholarship 2009
HEC Overseas scholarship awarded for PhD degree (University of Edinburgh, UK)

Silver medal 2009
Awarded Silver medal in Master of science (honours) Agriculture.

Gold Medal 2007
Awarded gold medal for highest CGPA in Bachelor of science (honours) Agriculture.

Gold Medal 2007
Awarded gold medal for highest percentage in year 2006 in entire university.

Research Projects

National Projects

Elucidating the effects of organic amendment and nitrogen sources on flavonoids and nitrogen fixation in Arachis hypogaea. 2022

Funding Agency: HEC
Amount: PKR 11,260,000.00
Status: Approved_inprocess

Unraveling the effect of physiological factors in transcription of genes involved in flavonoid biosynthetic pathway in Arachis Hypogaea 2016

Funding Agency: Higher Education Comission (HEC), Pakistan
Amount: PKR 445,000.00
Status: Completed

Expression analysis of potential flavonoid biosynthetic pathway genes in cultivated peanut (Arachis hypogaea) 2015

Funding Agency: Higher Education Comission (HEC), Pakistan
Amount: PKR 526,000.00
Status: Completed

International Projects

Research Articles

Genome-wide association of root growth angle, seminal root numbers, and leaf area in the synthetic hexaploid wheat diversity panel 2025

Maria Khalid Zoya Khalid Zubair Khalid Lee Hickey Awais Rasheed Alvina Gul Rabia Amir
Plant Gene, Volume:43, Article Number 100507
Impact Factor: 2.200 | **Quartile:** 2
DOI: https://doi.org/10.1016/j.plgene.2025.100507

Arabidopsis Antiporter Genes as Targets of NO Signalling: Phylogenetic, Structural, and Expression Analysis 2025

Rabia Amir Zuhra Qayyum Sajeel Hussain Byung Wook Yun Adil Hussain Bong-Gyu Mun
International Journal of Molecular Sciences, Volume 26(15), Article Number 7195
Impact Factor: 4.900 | **Quartile:** 1
DOI: https://doi.org/10.3390/ijms26157195

Photo-Induced Synthesis of Silver Nanoparticles Using Bacillus safensis as Elicitors for Enhanced Growth of Fenugreek in Hydroponic 2025

Linta Jadoon Alvina Gul Hunaiza Fatima Rabia Amir Faiza Munir MUASTAFEEZ MUJTABA BABAR
Applied Biochemistry and Biotechnology, Pages:21
Impact Factor: N/A | **Quartile:** 2
DOI: https://doi.org/10.1007/s12010-025-05313-1

Evaluation of Wheat Landrace Germplasm for Agronomic Disease Susceptibility and Quality Traits Using Kompetitive Allele-Specific PCR (KASP) Markers 2025

Sumaira Salahudin Loddhi Alvina Gul Peter John Rabia Amir Faiza Munir Muhammad Jamil Hadi Alipour Bengu Turkiyalamaz Unal Munir Ozturk
Anadolu Journal of Agricultural Sciences, Volume 40, No. 2, Pages 221-238
Impact Factor: N/A
DOI: https://doi.org/10.7161/omuanajas.1561421

Fulvic acid-releasing chitosan nanoparticles promote the growth and salt stress tolerance of soybean plants 2025

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
Physiologia Plantarum, Volume 177, Issue 3, Article Number e70254
Impact Factor: 5.400 | **Quartile:** 1
DOI: https://doi.org/10.1111/ppl.70254

In silico identification and functional annotation of universal stress protein (USP) gene family in Chenopodium quinoa 2025

Hajira Imran Alvina Gul Rehan Zafar Paracha Rabia Amir Faiza Munir Muhammad Faraz Bhatti
Scientific Reports, Volume 15, Article Number 18264

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 2025

Saba Azeem Faiza Munir Alvina Gul Rabia Amir
Scientific Reports, Volume 15, Article Number: 15421
Impact Factor: 3.800 | **Quartile:** 1 | **Citations:** 1
DOI: 10.1038/s41598-025-98886-0

Molecular modelling and gene expression analysis to probe the GT-γ trihelix transcription factors in Solanum tuberosum under drought stress 2025

Tayyaba Bint Tariq Faiza Munir ISHRAT JABEEN Alvina Gul Rabia Amir
Scientific Reports, Volume 15, Article Number: 12471
Impact Factor: 3.800 | **Quartile:** 1
DOI: https://doi.org/10.1038/s41598-025-96485-7

Overexpression of StDREB30 Gene Enhances Salt Stress Tolerance in Transgenic Potato 2024

Qurat-ul-ain Ali Faiza Munir Muhammad Faraz Bhatti Rabia Amir Alvina Gul
Potato Research, Pages 1-23
Impact Factor: 2.300 | **Quartile:** 1
DOI: https://doi.org/10.1007/s11540-024-09811-3

Biochar and PGPR: A Winning Combination for Peanut Growth and Nodulation under Dry Spell 2024

Tashfeen Alam Fatima Bibi Hunaiza Fatima Faiza munir Alvina Gul Ghulam Haider Muhammad Jahanzaib Rabia Amir
Journal of Soil Science and Plant Nutrition, Pages: 16
Impact Factor: 3.4 | **Quartile:** 1 | **Citations:** 2
DOI: https://doi.org/10.1007/s42729-024-02067-3

Cloning and overexpression of the DREB30 gene enhances drought and osmotic stress tolerance in transgenic potato 2024

Qurat Ul Ain Ali Faiza Munir Muhammad Tahir Rabia Amir Alvina Gul
Journal of Plant Interactions, Volume 19, No. 1, Article Number 2364656
Impact Factor: 2.600 | **Quartile:** 2 | **Citations:** 4
DOI: 10.1080/17429145.2024.2364656

Alkaloid rich hydroponic chili for AgNPs synthesis against multidrug resistant Staphylococcus aureus infected burn wounds 2024

Hunaiza Fatima Alvina Gul Linta Jadoon Syed Damin Abbas Hamdani Tausif Ahmed Rajput Rabia Amir Faiza Munir Mustafeez Mujtaba Babar
Process Biochemistry, Volume: 141, Pages 170-178
Impact Factor: 4.4 | **Quartile:** 2 | **Citations:** 1
DOI: 10.1016/j.procbio.2024.03.014

Genome-wide analysis of heavy metal ATPases (HMAs) in Poaceae species and their potential role against copper stress in Triticum aestivum 2023

Tuba Sharf Batool Alvina Gul Rehan Zafar Paracha Mahnoor Ilyas Kathryn De Abreu Faiza Munir Rabia Amir Lorraine E. Williams Roohi Aslam
Scientific Reports, Volume 13, Article Number 7551
Impact Factor: 4.996 | **Quartile:** 2 | **Citations:** 11
DOI: https://doi.org/10.1038/s41598-023-32023-7

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 2023

Qurat-ul-Ain Hira Midhat Mehboob Rimsha Azhar Faiza Munir Alvina Gul Asim Hayat Tariq Shah Rabia Amir
Frontiers in Plant Science, Volume 14, Article Number 1139136
Impact Factor: 6.627 | **Quartile:** 1 | **Citations:** 2
DOI: 10.3389/fpls.2023.1139136

Anti-MRSA potential of biogenic silver nanoparticles synthesized from hydroponically grown Foeniculum vulgare 2023

Hunaiza Fatima Syed Damin Abbas Hamdani Madiha Ahmed Tausif Ahmed Rajput Alvina Gul Rabia Amir Faiza Munir Sohaib Zafar Malik Mustafeez Mujtaba Babar
Phytomedicine Plus, Volume 3, Issue 1, Article Number 100415
Impact Factor: N/A | **Citations:** 15
DOI: https://doi.org/10.1016/j.phyplu.2023.100415

Genome-wide identification, comprehensive characterization of transcription factors, cis-regulatory elements, protein homology, and protein interaction network of DREB gene family in Solanum lycopersicum 2022

Hajra Maqsood Faiza Munir Rabia Amir Alvina Gul

Frontiers in Plant Science, Volume 13, Article Number 1031679

Impact Factor: 6.627 | **Quartile:** 1 | **Citations:** 26

DOI: https://doi.org/10.3389/fpls.2022.1031679

Genome wide identification and characterization of nodulation related genes in Arachis hypogaea 2022

Kiran Khurshid Anum Akram Ahmad Ali Faiza Munir Alvina Gul Ghulam Haider Zuhra Qayyum Rabia Amir

PLOS ONE , Volume 17, Issue 9, Article Number e0273768

Impact Factor: 3.752 | **Quartile:** 2 | **Citations:** 2

DOI: https://doi.org/10.1371/journal. pone.0273768

Identification and Expression Analysis of Stilbene Synthase Genes in Arachis hypogaea in Response to Methyl Jasmonate and Salicylic Acid Induction 2022

Zuhra Qayyum Fatima Noureen Maryam Khan Marrium Khan Ghulam Haider Faiza Munir Alvina Gul Rabia Amir

Plants , Volume 11, Issue 13, Article Number 1776

Impact Factor: 4.658 | **Quartile:** 1 | **Citations:** 10

DOI: https://doi.org/10.3390/ plants11131776

Photoperiod and water-deficient conditions differentially regulate structural flavonoid biosynthetic genes in peanuts 2022

Maryam Khan Saman Taufiq Irum Nauman Norina Noor Tooba Iqbal Hina Ali Rehan Zafar Paracha Faiza Munir Alvina Gul Rabia Amir

Journal of Plant Interactions, Volume 17(1), Pages 620-631

Impact Factor: 4.208 | **Quartile:** 1 | **Citations:** 1

DOI: https://doi.org/10.1080/17429145.2022.2076940

Genome-wide promoter analysis, homology modeling and protein interaction network of Dehydration Responsive Element Binding (DREB) gene family in Solanum tuberosum 2021

Qurat-ul-ain Ali Nida Mushtaq Rabia Amir Alvina Gul Muhammad Tahir Faiza Munir

PLoS One , Volume 16(12), Article Number e0261215

Impact Factor: 3.240 | **Quartile:** 2 | **Citations:** 42

DOI: 10.1371/journal.pone.0261215

Genetic gain and G × E interaction in bread wheat cultivars representing 105 years of breeding in Pakistan 2021

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

Crop Science , Volume 62, Issue 1, Pages 178-191

Impact Factor: 2.319 | **Quartile:** 2 | **Citations:** 10

DOI: https://doi.org/10.1002/csc2.20655

Potassium and salicylic acid function synergistically to promote the drought resilience through upregulation of antioxidant profile for enhancing potassium use efficiency and wheat yield 2021

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

Annals of Applied Biology, Pages 1-10

Impact Factor: 2.750 | **Quartile:** 2 | **Citations:** 10

DOI: https://doi.org/10.1111/aab.12731

Characterization of the genetic basis of local adaptation of wheat landraces from Iran and Pakistan using genome-wide association study 2021

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

Plant Genome , Article Number e20096, Pages 1-17

Impact Factor: 4.219 | **Quartile:** 1 | **Citations:** 10

DOI: DOI: 10.1002/tpg2.20096

Genome-wide analysis, identification, evolution and genomic organization of dehydration responsive element-binding (DREB) gene family in Solanum tuberosum 2021

Nida Mushtaq Faiza Munir Alvina Gul Rabia Amir Rehan Zafar Paracha

PeerJ , Volume 9, Article Number e11647

Impact Factor: 3.061 | **Quartile:** 2 | **Citations:** 26

DOI: 10.7717/peerj.11647

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

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

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

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

Karnal Bunt Resistance in Synthetic Hexaploid/Bread Wheat Derivatives 2018

Sameen Ruqia Imadi Rabia Amir Sumaira Salah-ud-Din Lodhi Peter John Abdul Mujeeb Kazi Alvina Gul

NUST Journal of Natural Sciences , Volume 4, Issue: 1, Pages .83-99

Impact Factor: -

DOI: NA

Characterization of Differentaegilopstauschii Accessions in Similar Durum Wheat Background 2018

Ghulam Kubra Rabia Amir Mehmoona Ilyas Fakiha Afzal Muhammad Jamil Attiq-ur-Rehman Rattu Shehzad Asad Muhammad Fayyaz Abdul Mujeeb-Kazi Alvina Gul

NUST Journal of Natural Sciences , 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

Maria Khalid Zoya Khalid Alvina Gul Rabia Amir Zubair Ahmad

International Journal of Agriculture and Biology, 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

Maria Khalid Alvina Gul Rabia Amir Mohsin Ali Fakiha Afzal Umar Masood Quraishi Zubair Ahmed Awais Rasheed

Plant Genetic Resources:Characterization and Utilization, Pages 1-8

Impact Factor: 0.717 | **Quartile:** 4 | **Citations:** 10

DOI: 10.1017/S1479262118000023

Phenotypic and genotypic characterization of wheat landraces of Pakistan 2014

Rabia Amir Nasir M. Minhas Alvina Gul Sumaira Farrakh Ahmad Ali Hadi Bux A. Mujeeb-Kazi

Emirates Journal of Food and Agriculture, 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

BYUNG-WOOK YUN SUNMI HONG EUN-KYONG LEE ZEJUN YAN YOUNG-WOO JIN GARY J. LOAKE RABIA AMIR

Biotechnology and Genetic Engineering Reviews, 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

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

Nature Biotechnology , 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

Rabia Amir

The 5th Forum Conference 2024 , res.country(178,)

Citations: N/A

DOI: Nil

Expression profiling of potential flavonoid biosynthetic pathway genes in Arachis hypogaea under abiotic stress 2017

Rabia Amir

International conference on tackling climatic change through plant breeding, res.country(177,)

Citations: N/A

DOI: N/A

Book Chapters

Signaling and Regulatory Pathways Between Plants and Microbial Communities Towards Environments 2025

Maryam Khan Aroma Jannat Zuhra Qayyum Nosheen Fatima Muhammad Sayeed Akhtar Rabia Amir

In: *Agricultural Biotechnology: Issues, Challenges, and Recent Developments*, 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 2024

Hunaiza Fatima Hajira Ali Raja Rabia Amir Alvina Gul Mustafeez Mujtaba Babar Jayakumar Rajadas

In: *Progress in Molecular Biology and Translational Science*, Chapter: 09, Volume: 208, Pages: 211-229

Citations: 1

DOI: https://doi.org/10.1016/bs.pmbts.2024.07.007

Genome engineering and bioethics 2024

Kiran Khurshid Rabia Amir Alvina Gul Wajahat Maqsood M. Awais Junaid Faiq M. Sabih Hina Javed

In: *Book on Targeted Genome Engineering via CRISPR/Cas9 in Plants*, 1st Edition, Chapter 22, Pages: 421-432

Citations: N/A

DOI: https://doi.org/10.1016/B978-0-443-26614-0.00021-7

Industrial applications of genetic engineering 2024

Rabia Amir Anum Akram Zeeshan Zafar Sidra Fatima Qurat ul ain Sani

In: *Book on Targeted Genome Engineering via CRISPR/Cas9 in Plants*, 1st Edition, Chapter 10, Pages 393-408

Citations: N/A

DOI: https://doi.org/10.1016/B978-0-443-26614-0.00006-0

Genome engineering in sorghum 2024

Maria Gilani Qurat Ul Ain Ali Faiza Munir Sarah Fatima Alvina Gul Rabia Amir Muhammad Ammar Ashar Hafiz Imran Fakhar

In: *Book on Targeted Genome Engineering via CRISPR/Cas9 in Plants*, 1st Edition, Chapter 15, Pages 297-311

Citations: N/A

DOI: https://doi.org/10.1016/B978-0-443-26614-0.00009-6

Genomic engineering in peanut 2024

Ahmad Ali Rabia Amir Alvina Gul Faiza Munir Kainat Ahmad Anum Akram

In: *Book on Targeted Genome Engineering via CRISPR/Cas9 in Plants*, 1st Edition, Chapter 8, Pages 159-175

Citations: 1

DOI: https://doi.org/10.1016/B978-0-443-26614-0.00018-7

Genome engineering in cotton (Gossypium hirsutum) 2024

Maria Sharif Uzma Maria Abdul Salam Afsheen Malik Shahrukh Khan Kiran Kainat Sherin Rabia Amir Sami Ullah Jan Alvina Gul Muhammad Jamil

In: *Book on Targeted Genome Engineering via CRISPR/Cas9 in Plants*, 1st Edition, Chapter 2, Pages

Citations: N/A

DOI: 10.1016/B978-0-443-26614- 0.00012-6

Genetic Transformation Methods in Cereal Crops 2023

Noor-ul-Ain Malik Faiza Munir Saba Azeem Rabia Amir Maria Gillani Alvina Gul Aneela Mustafa Nosheen Fatima

In: *Book on Cereal Crops: Genetic Resources and Breeding Techniques*, 1st Edition, Chapter 12, Pages 269-290

Citations: N/A

DOI: 10.1201/9781003250845-12

Metabolomics-Assisted Breeding for Enhancing Yield and Quality of Cereals 2023

Qurat ul Ain Sani Nosheen Fatima Qurat ul Ain Ali Hira Rimsha Azhar Midhat Mahboob Salman Nawaz Faiza Munir Rabia Amir

In: *Book on Cereal Crops: Genetic Resources and Breeding Techniques*, 1st Edition, Chapter 9, Pages 173-200

Citations: N/A

DOI: 10.1201/9781003250845-9

Metabolic Responses in Plants under Abiotic Stresses 2023

Ahmad Ali Kiran Khurshid Namrah Ahmed Nida Mushtaq Rabia Amir Faiza Munir

In: *Book on Cereal Crops: Genetic Resources and Breeding Techniques*, 1st Edition, Chapter 10, Pages 201-233

Citations: N/A

DOI: 10.1201/9781003250845-10

Phytohormones, plant growth and development 2023

Noor Ul Ain Malik Oushna Fajer Laiba Amin Attiya Rubab Khalid Nabia Khan Muhammad Faraz Bhatti Faiza Munir Ghulam Haider Rabia Amir Alvina Gul

In: *Phytohormones and Stress Responsive Secondary Metabolites*, Chapter 14, Page:175-186

Citations: 3

DOI: 10.1016/B978-0-323-91883-1.00014-0

Phenomics 2022

Saima Siddique Madeeha Hamid Alvina Gul Namra Haq Rabia Amir Volkan Altay Munir Ozturk

In: *Book on Introduction and Application of Organic Fertilizers as Protectors of Our Environment*, Chapter 13, Pages 307-339

Citations: N/A

DOI: DOI: ----

Organelleomics: Mitochondria and Chloroplast of Plants 2022

Bukhtawar Fatima Tahira Khan Namra Haq Rabia Amir Alvina Gul Volkan Altay Munir Ozturk

In: *Book on Introduction and Application of Organic Fertilizers as Protectors of Our Environment*, Chapter 21, Pages 471-493

Citations: N/A

DOI: Doi-1-

Biochemical and Molecular Mechanisms of Abiotic Stress Tolerance 2020

Maryam Khan Arooma Jannat Rabia Amir Faiza Munir Nosheen Fatima

In: *Book on Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives II*, Chapter 9, Pages 187-230

Citations: 16

DOI: 10.1007/978-981-15-2172-0

Plant Signalling Under Adverse Environment 2020

Qurat-ul-Ain Sani Wajahat Maqsood Adil Hussain Rabia Amir Faiza Munir

In: *Book on Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives 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

Sumaira Salahuddin Lodhi Shafia Maryam Khola Rafique Atif Shafique Zeeshan Ali Yousaf Abdul Mohaimen Talha Alvina Gul Rabia Amir

In: *Book on Climate Change and Food Security with Emphasis on Wheat - 1st Edition*, 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

Jin Sun Maryam Khan Rabia Amir Alvina Gul

In: *Book on Climate Change and Food Security with Emphasis on Wheat*, Chapter 23, Pages 321-330

Citations: 6

DOI: https://doi.org/10.1016/B978-0-12-819527-7.00023-6

Next-generation sequencing in bread wheat 2020

Kainat Rauf Rabia Rahman Adeena Saeed Muhammad Ali Fatima Noureen Rabia Amir Alvina Gul

In: *Book on Climate Change and Food Security with Emphasis on Wheat*, Chapter 22, Pages 311-320

Citations: 3

DOI: https://doi.org/10.1016/B978-0-12-819527-7.00022-4

Wheat genomics and genome editing 2020

Nida Liaqat Ayesha Liaqat Muhammad Ali Zuhra Qayyum Raffia Siddique Hikmet Budak Rabia Amir Alvina Gul

In: *Book on Climate Change and Food Security with Emphasis on Wheat*, Chapter 21, Pages 331-346

Citations: 2

DOI: https://doi.org/10.1016/B978-0-12-819527-7.00024-8

Molecular mechanism of drought tolerance in wheat 2020

Insha Zahoor Humna Hasan Anum Khursheed Mohsin Ali Fakiha Afzal Ghulam Kubra Ammaila Basharat Fabiha Aziz Fizla Zarrar Rabia Amir Alvina Gul

In: *Book on Climate Change and Food Security with Emphasis on Wheat*, Chapter 8, 129-154

Citations: 5

DOI: https://doi.org/10.1016/B978-0-12-819527-7.00008-X

Role of osmoprotectants in salinity tolerance in wheat 2020

Muhammad Nadeem Mohsin Ali Ghulam Kubra Azam Fareed Humna Hasan Anum Khursheed Sami Ullah Khan Rabia Amir Nosheen Fatima Alvina Gul

In: *Book on Climate Change and Food Security with Emphasis on Wheat*, Chapter 6, Pages 93-106

Citations: 15

DOI: https://doi.org/10.1016/B978-0-12-819527-7.00006-6

Drought-responsive ESTs in wheat 2020

Mohsin Ali Humna Hasan Khola Rafique Fakiha Afzal Ghulam Kubra Kandeel Shafique Sarah Waseem Rameeza Hasan Saneea Imran Zeeshan Ahmad Syed Hammad Raza Tayyaba Fayaz Rabia Amir Alvina Gul

In: *Book on Climate Change and Food Security with Emphasis on Wheat - 1st Edition*, Chapter 10, Pages 169-176

Citations: 1

DOI: https://doi.org/10.1016/B978-0-12-819527-7.00010-8

Role of osmoprotectants and drought tolerance in wheat 2020

Humna Hasan Uzma Mohsin Ali Ghulam Kubra Fatima tuz Zahra Khan Sehar Yousaf Komal Binte Ajmal Hasan Naseer Wajeeh Khan Rumana Keyani Alvina Gul Kazi Rabia Amir

In: *Book on Climate Change and Food Security with Emphasis on Wheat, 1st Edition*, Chapter 13, 207-216

Citations: N/A

DOI: http://doi.org/10.1016/B978-0-12-819527-7.00013-3 6

Pan-genomics of plants and its applications 2020

Noor Ul Saba Muneeba Arveen Amnah Siddiqua Jamil Ahmad Faiza Munir Rabia Amir

In: *Book on Pan-genomics: Applications, Challenges, and Future Prospects*, Chapter 14, Pages 285-306

Citations: 3

DOI: https://doi.org/10.1016/B978-0-12-817076-2.00014-7

Pan-genomics of plant pathogens and its applications 2020

Qurat-ul-Ain Sani Wajahat Maqsood Nosheen Fatima Amnah Siddiqua Jamil Ahmad Rabia Amir Faiza Munir

In: *Book on Pan-genomics: Applications, Challenges, and Future Prospects*, Chapter 6, Pages 121-145

Citations: 6

DOI: https://doi.org/10.1016/B978-0-12-817076-2.00006-8

ROS Mediated Plant Defense Against Abiotic Stresses 2019

Rabia Amir Sidra Hussain Hafiza Noor-ul-Ain Adil Hussain Byung-Wook Yun

In: *Book on Plant Biotechnology: Progress in Genomic Era*, Pages 481-515

Citations: 7

DOI: https://doi.org/10.1007/978-981-13-8499-8_21

Role of Signaling Pathways in Improving Salt Stress in Plants 2019

Rabia Amir Faiza Munir Ghulam Kubra Irum Nauman Norina Noor

In: *Book on Salt Stress, Microbes, and Plant Interactions: Mechanisms and Molecular Approaches*, Pages 183-211

Citations: 5

DOI: https://doi.org/10.1007/978-981-13-8805-7_9

Use of Plant Hormones for the Improvement of Plant Growth and Production Under Salt Stress 2019

Rabia Amir Faiza Munir Maryam Khan Tooba Iqbal

In: *Salt Stress, Microbes, and Plant Interactions: Causes and Solution*, Chapter 3, Pages 59-90

Citations: 9

DOI: 10.1007/978-981-13-8801-9_3

Plant Signaling Molecules and Cadmium Stress Tolerance 2019

Ghulam Kubra Tooba Iqbal Maryam Khan Rabia Amir Faiza Munir

In: *Cadmium Tolerance in Plants*, Chapter 14, Pages 367-399

Citations: 5

DOI: 10.1016/B978-0-12-815794-7.00014-X

Influence of Phytoprotectants on Abiotic Stress Signaling in Plants 2019

Rumana Keyani Tooba Iqbal Maryam Khan Rabia Amir Faiza Munir

In: *Plant Tolerance to Environmental Stress - Role of Phytoprotectants*, Chapter 2, Pages 9-28

Citations: N/A

DOI: 10.1201/9780203705315

Stress Signaling Under Metal and Metalloid Toxicity 2018

Rabia Amir Saman Taufiq Norina Noor Irum Nauman Faiza Munir Rumana Keyani Ayesha T. Tahir

In: *Book on Plants Under Metal and Metalloid Stress: Responses, Tolerance and Remediation*, Pages 149-184

Citations: 10

DOI: 10.1007/978-981-13-2242-6_5

Plants Adaptive Mechanisms under Arsenic Pollution 2018

Rabia Amir Momina Hayat Irum Nauman Marrium Khan Faiza Munir

In: *Book on Mechanisms of Arsenic Toxicity and Tolerance in Plants*, Pages 171-190

Citations: 3

DOI: 10.1007/978-981-13-1292-2_7

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