

## CURRICULUM VITAE

**SIRAJ AHMED CHANNA**


Associate Professor

**HEC Approved PhD supervisor**

Department of Plant Breeding and Genetics  
Faculty of Crop Production, Sindh Agriculture University Tando Jam  
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### Personal Information

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|---------------------------|--|---|
| Name:                     | SIRAJ AHMED CHANNA   |  |
| Father's Name:            | MUHAMMAD ISMAIL CHANNA   |   |
| Date of birth:            | 22-03-1979   |   |
| Place of birth:           | Village Sobho Khan Magsi   |   |
| Age:                      | 42 Years   |   |
| Religion:                 | Islam  |   |
| CNIC number:              | 41205-7195782-7  |   |
| Passport number:          | XR4117822  |   |
| Domicile:                 | Sindh (R) Dadu   |   |
| Nationality:              | Pakistani  |   |
| Designation:              | Associate Professor (BPS-20)   |   |
| Date of first Appointment | (Lecturer BPS-17) 12 <sup>th</sup> April, 2006   |   |
| Marital status:           | Married  |   |
| Permanent address:        | Village Sobho Khan Magsi Taluka Mehar District Dadu, Sindh, Pakistan.  |   |
| Office address:           | Department of Plant Breeding and Genetics, Faculty of Crop Production, Sindh Agriculture University Tandojam, Hyderabad, Sindh, Pakistan. Postcode: 70060. |   |

### Education

| <b>Degree</b>   | <b>Field of study</b>                | <b>University/ Country</b>                 | <b>Year</b> |
|---|--------------------------------------|--|-------------|
| <b>Ph.D</b>   | <b>Crop Genetics &amp; Breeding</b>  | Northwest A & F University Yangling, China | 2016        |
| Dissertation: Combining ability, heterosis and heterosis grouping analysis between Chinese semi-winter and exotic winter and spring lines of rapeseed ( <i>Brassica napus</i> L.) |                                      |  |             |
| <b>M.Sc (Agri.) Hons.</b>   | <b>Plant Breeding &amp; Genetics</b> | S A U Tandojam Pakistan                    | 2005        |
| Dissertation: Magnitude of gene action for different economic traits of upland cotton ( <i>Gossypium hirsutum</i> L.)   |                                      |  |             |
| <b>B.Sc (Agri.) Hons.</b>   | <b>Plant Breeding &amp; Genetics</b> | S A University Tandojam Pakistan           | 2003        |
| <b>Certificate</b>  |                                      |  |             |
|   |                                      | <b>College/University/ Country</b>         | <b>Year</b> |
| Chinese Language Proficiency Level-IV   |                                      | Northwest A & F University Yangling, China | 2013        |
| Higher Secondary School certificate (HSC)   |                                      | BISE Hyderabad Sindh Pakistan              | 1996        |
| Secondary School certificate (SSC)  |                                      | BISE Hyderabad Sindh Pakistan              | 1994        |

## Achievements

- HEC Approved PhD supervisor
- Received **Chinese Government Scholarship awarded by Chinese Scholarship Council offered by People's Republic of China, in 2012** to pursue Ph.D degree in Crop Genetics & Breeding from College of Agronomy, Northwest A&F University Yangling, Shaanxi, China.
- **Passed Chinese Language Proficiency Examination (HSK Level-IV) in 2013.**

## Professional/Employment record

- **Associate Professor**, Department of Plant Breeding and Genetics, Faculty of Crop production, Sindh Agriculture University Tandojam since 16<sup>th</sup> February 2018 to date.
- **Assistant Professor**, Department of Plant Breeding and Genetics, Faculty of Crop production, Sindh Agriculture University Tandojam since 16<sup>th</sup> February 2017 to 15<sup>th</sup> February 2018.
- **Lecturer**, Department of Plant Breeding and Genetics, Faculty of Crop production, Sindh Agriculture University Tandojam from 12-04- 2006 to 15-02-2017.
- **Research Assistant** in ALP project "Molecular Breeding of Kabuli Chickpea for Blight Resistance" from 01-09-2003 to 30-03-2004 in Pulses Programme, Crop Sciences Institute (CSI), NARC, Islamabad.

## Trainings/ Workshops

### 1) International

- Participated in International workshop on "**Techniques Related to Molecular Biology and Immunology**" at Department of Biochemistry University of Arid Agriculture, Rawalpindi from December 18<sup>th</sup> - 23<sup>rd</sup>, 2006.

### 2) National

- Attended the "**Advanced Specified Course for Master Trainer Faculty Professional Development Programme Alumni on Advanced Communication Skills**" Organized & Conducted by Learning Innovation Division **Higher Education Commission**, Held at HEC Regional Centre, Karachi November 20-25, 2009.
- Attended the 9<sup>th</sup> in-service University and Degree Awarding Institutions' teachers "**Faculty Professional Development Programme**" Organized & Conducted by Learning Innovation Division **Higher Education Commission, Islamabad** March 18 – April 30, 2008.
- Participated three days workshop entitled "**Crop Improvement Conventional and Biotechnological Approaches**" at University of Arid Agriculture, Rawalpindi from August 28<sup>th</sup> - 30<sup>th</sup>, 2006.
- Successfully completed training of **IPM Facilitator** from May 2005 - February 2006 in "National IMP Project" **Mango Training of Facilitation** at Mirpur Khas Agriculture Extension Department Sindh.
- Attended three days training "**Integrated Pest Management Training Programme**" Under Cotton IPM Project at Central Cotton Research Institute (**CCRI**) Sakrand from 24-05-2004 to 26-05-2004.
- Successfully completed six months Training of "**Office Management Programs**" from 02-07-2002 to 05-01-2003 at Tandojam Institute of Information Technology, Tandojam.

## Membership of Scientific Journal(s)

- Pakistan Journal Agriculture, Agricultural Engineering and Veterinary Science, Sindh Agriculture University Tandojam
- Journal of Agricultural Research, Department of Agriculture Government of Punjab, Pakistan

## Additional Assignments

- Member **Research Publication Cell** Sindh Agriculture University Tandojam April 2010- March 2011.

- **Tabulator** Faculty of Crop Production December 2010 to August 2012
- **Tabulator** Faculty of Crop Production April 2019 to September 2020
- **Member** of program team for PhD in Plant Breeding and Genetics (2<sup>nd</sup> Cycle) from April 2019 to up to date.
- Member of Board of Studies in the Department of Plant Breeding and Genetics, Faculty of Crop Production, SAU, Tandojam October 2019 to up to date.
- **Checker** Faculty of Crop Production November 2021 up to date

### Projects submitted

| <u>Project Title</u>   | <u>Submitted to</u>                               | <u>Application ID</u> | <u>Application Type</u>                       | <u>Status</u>                   |
|--|---|-----------------------|---|---------------------------------|
| Combining ability, heterosis, heterosis grouping and heterosis pattern among Brassica species cultivated in Pakistan | <u>Higher Education Commission (HEC) Pakistan</u> | <u>18983</u>          | <u>Research Grant Application (NRPU) 2021</u> | <u>In Process till 26.12.21</u> |

### Proficiency of language

|                      |                      |                     |                   |                  |
|----------------------|----------------------|---------------------|-------------------|------------------|
| a. English (S)(R)(W) | b. Chinese (S)(R)(W) | c. Sindhi (S)(R)(W) | d. Urdu (S)(R)(W) | e. Arabic (R)(W) |
|----------------------|----------------------|---------------------|-------------------|------------------|

### Hobbies

Reading books, journals and newspapers

### Sports

Badminton, Cricket and Table Tennis

### Publications

| <u>Total Publications</u> | <u>HEC Recognized/SCI Journals</u> | <u>Non SCI Journals</u> | <u>Citations</u> | <u>H index</u> | <u>Total Reads</u> | <u>Total Impact Factor</u> |
|---------------------------|------------------------------------|-------------------------|------------------|----------------|--------------------|----------------------------|
| 32                        | 24                                 | 08                      | 129              | 06             | 6122               | 17.81                      |

## 1. International Publications

| <b>Papers Published in HEC recognized and SCI Journals with Impact factor</b> |  |   |  |   |                                      |
|---|--|---|--|---|--------------------------------------|
| <b>S. No</b>  | <b>Authors</b>   | <b>Title of paper</b>   | <b>Journal Name</b>                        | <b>Vol. &amp; Date</b>  | <b>Remarks</b>                       |
| 1   | Punhoon Khan Korai, Tanveer Ali Sial, Genxing Pan, Hamada Abdelrahman, Ashim Sikdar, Farhana Kumbhar, <b>Siraj Ahmed Channa</b> , Esmat F. Ali, Jianguo Zhang, Jorg Rinklebe, and Sabry M. Shaheen | Wheat and maize-derived water-washed and unwashed biochar improved the nutrients phytoavailability and the grain and straw yield of rice and wheat: A field trial for sustainable management of paddy soils | <i>Journal of Environmental Management</i> | 297 (2021) 113250<br>doi.org/10.1016/j.jenvman.2021.113250<br>ISSN: 1095-8630,0301-4797 | (W category)<br>Impact Factor: 2.64) |
| 2   | Ghulam Rasool Lkhan, Bahadur Ali Soomro, Amanullah Channa, <b>Siraj Ahmed Channa</b> and   | Entrepreneurship Development In Agribusiness Enterprises In Pakistan  | <i>Multicultural Education</i>             | Volume 7, Issue 6, 2021<br>ISSN: 1068-3844  | (W category)<br>Impact Factor: 1.76) |

|    |   |  |  |   |  |
|----|---|--|--|---|--|
|    | Ghulam Mujtaba Khushk   |  |  |   |  |
| 3  | Ghulam Rasool Lakhani, Bahadur Ali Soomro, Amanullah Channa, <b>Siraj Ahmed Channa</b> and Ghulam Mujtaba Khushk                                  | Perceived access to finance and social entrepreneurship intentions among university students in Sindh, Pakistan  | <b>PalArch's journal of Archaeology of Egypt/ Egyptology</b> | PJAEE, 18 (8) (2021)<br>ISSN: 1567-214X                           | (Y category)<br>Impact Factor: 1.50            |
| 4  | Shah Faisal, Yuan Guo, Chunlei Du, Dongsuo Zhang, Jingyang Lv, <b>Siraj Ahmed Channa</b> , Gaoping Qu and Sheng Wu Hu                             | Morphological, physiological and genetic analyses of an upward-curling leaf mutant in <i>Brassica napus</i> L.   | <b>Acta Physiologiae Plantarum</b>                           | 42:46, (2020)<br>(doi.org/10.1007/s11738-020-3033-4)              | (W category)<br>Impact Factor: 1.76            |
| 5  | Amanullah, Ghulam Rasool Lakhani, <b>Siraj Ahmed Channa</b> , Habibullah Magsi, Mansoor Ahmed Koondhar, Wang Jing and Naseer Ahmed Channa         | Credit constraints and rural farmers in an agrarian economy  | <b>Heliyon</b>   | Heliyon 6 (2020) e05252,<br>doi.org/10.1016/j.heliyon.2020.e05252 | (X category)<br>Impact Factor: 1.86            |
| 6  | Amanullah, Wang Jing, Siraj Ahmed Channa, Shah Fahad and Teng Huang   | Economic impact of formal credit constraints on technical efficiency of wheat; Evidence from Sindh Pakistan  | <b>Frensensius Environmental Bulletin</b>                    | 28 (8): 5888-5899 (2019)  | (X Category)<br>Impact Factor: 0.53            |
| 7  | Amanullah, Wang Jing, Siraj Ahmed Channa, and Habibullah Magsi  | Farm level impact of credit constraints on agricultural investment and income  | <b>Pakistan Journal of Agricultural Sciences</b>             | 56 (2), 511-521 (2019)  | (X category)<br>Impact Factor: 0.65            |
| 8  | Farhana Kumbhar, Jianxin Bian, Tanveer Ali Sial, Altaf Hussain Lahori, Xi Chang, Xiaojun Nie, <b>Siraj Ahmed Channa</b> and Song Weining          | QTL mapping of plant height, spike length, peduncle length and number of grains per plant in Barley ( <i>Hordeum vulgare</i> L.) using 'Steptoe/Morex' DH population grown in Northwest of China | <b>Pakistan Journal of Botany</b>                            | 50(6): 2205-2214, 2018  | (X category)<br>Impact Factor: 0.79            |
| 9  | <b>Siraj Ahmed Channa</b> , Hongyun Tian, Maarouf I. Mohammed, Ruijie Zhang, Shah Faisal, Yuan Guo, Miroslav Klíma, Michael Stamm, and Shengwu Hu | Heterosis and combining ability in Chinese semi-winter x exotic accessions of rapeseed ( <i>Brassica napus</i> L.)   | <b>Euphytica</b>   | (2018) 214:234<br>doi.org/10.1007/s10681-018-2216-1               | (W category)<br>Impact Factor: 1.62            |
| 10 | Xiaojuan Zhang, Haiyan Chen, <b>Siraj Ahmed Channa</b> , Yuan Guo, Fei Yu, and Sheng Wu Hu  | Genetic diversity in Brassica rapa accessions revealed by SSR and SRAP molecular markers   | <b>Brazilian Journal of Botany</b>                           | 10.1007/s40415-017-0392-1 (2017)                                  | (Available in Master Journal List)<br>IF: 0.93 |
| 11 | Hong Yun Tian, <b>Siraj Ahmed Channa</b> and Sheng Wu Hu  | Relationship between genetic distance, combining ability and heterosis in rapeseed ( <i>Brassica napus</i> L.)   | <b>Euphytica</b>   | (2017) 213:1<br>doi:10.1007/s10681-016-1788-x (2017)              | (W category)<br>Impact Factor: 1.62            |
| 12 | Hong Yun Tian, Jin Qiang Yan, <b>Siraj Ahmed Channa</b> , Ruijie Zhang, Yuan Guo and Sheng Wu Hu  | Analysis of A genome diversity among <i>Brassica napus</i> , <i>B. rapa</i> and <i>B. juncea</i> accessions by using specific simple   | <b>Pakistan Journal of Botany</b>                            | 49(1): 125-132, 2017  | HEC recognized<br>(X Category)<br>Impact       |

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|----|--|---|---|---|--|
|    |  | sequence repeat markers   |   |   | Factor: 0.79   |
| 13 | <b>Siraj Ahmed Channa</b> , Hong Yun Tian, Hong Qi Wu and Sheng Wu Hu  | Analysis of genetic diversity among Brassica napus L. cultivars and breeding lines by SRAP and SSR molecular markers        | <b>Pakistan Journal of Botany</b>   | 48(6): 2409-2422, <b>2016</b>   | HEC recognized (X Category) Impact Factor: 0.79        |
| 14 | H. Y. Tian, <b>S. A. Channa</b> , and S. W. Hu   | Heterotic Grouping and the Heterotic Pattern among Chinese Rapeseed ( <i>Brassica napus</i> L.) Accessions                  | <b>Agronomy Journal</b>   | Agron. J. 107:1321–1330 doi:10.2134/agronj14.0557 Issue 4 <b>2015</b>         | (W Category) Impact Factor: 1.63)                      |
| 15 | Abdul Wahid Baloch, Shihla Karim Baloch, <b>Siraj Ahmed Channa</b> , Abdul Majeed Baloch, M. Ali, Masood Ahmed Junejo and Gul Muhammad Baloch  | Character association and heritability analysis in Pakistani elite bread wheat cultivars                                    | <b>International Journal of Applied Biology and Pharmaceutical Technology</b>       | 05 (4), ( <b>2014</b> )   | ISI indexed Journal (Available in Master Journal List) |
| 16 | Abdul Wahid Baloch, Javed Hussain Sahito, M. Ali, Ghulam Asghar Baloch, Saifullah Abro, <b>Siraj Ahmed Channa</b> , Abdul Majeed Baloch, Ghulam Hussain Baloch and G.M. Baloch             | Association Analysis of Yield and Fiber Traits in Advance Pakistani Upland Cotton Cultivars ( <i>Gossypium hirsutum</i> L.) | <b>Advances in Agricultural Sciences</b>  | 02 (12): 73-80, ( <b>2014</b> )   | ISI indexed Journal (Available in Master Journal List) |
| 17 | <b>Siraj Ahmed Channa</b> , Abdul Wahid Baloch, Muhammad Jurial Baloch, Imran Ahmad and Humaira wasila   | Genetic analysis of fiber characters of upland cotton ( <i>Gossypium hirsutum</i> L.)                                       | <b>Global Journal Of Biodiversity Science And Management</b>                        | 3(2): 264-268, 2013 ISSN 2074-0875 <b>2013</b>                                | ISI indexed Journal (Available in Master Journal List) |
| 18 | Amanullah Mahar, Imran Ahmad, Humaira wasila, Ali N. Siyal, Saeed Akhtar Abro, Riffat N. Malik, Waris Ali Gabol, <b>Siraj Ahmed Channa</b> , Syed Noor Muhammad Shah and Muhammad Ali Khan | Concentrations of Road Transport-Related Air Pollutants and It's Health Implications of Hyderabad City, Pakistan            | <b>Global Journal Of Biodiversity Science And Management</b>                        | 3(2): 269-275, 2013 ISSN 2074-0875 <b>2013</b>                                | ISI indexed Journal (Available in Master Journal List) |
| 19 | Muhammad Jurial Baloch, Jim Dunwell, Abdul Aziz Khakwani, Mike Dennet, Wajid Ali Jatoo and <b>Siraj Ahmed Channa</b>   | Assessment of Wheat cultivars for drought tolerance via osmotic stress imposed at early seedling growth stages              | <b>Journal of Agricultural Research</b>   | 50 (3): 299-310, <b>2012</b> ISSN (Online): 2076-7897 ISSN (Print): 0368-1157 | HEC recognized (Y Category)                            |
| 20 | K. A. Laghari, M. A. Sial, M. A. arain, S. Khanzada and <b>S. A. Channa</b>  | Evaluation of Stable wheat mutants lines for yield and yield associated traits  | <b>Pakistan Journal of Agriculture Agricultural Engineering Veterinary Sciences</b> | <b>2012</b> , 28 (2) 124-130 ISSN 1023-1072 ISSN: 2663-7863 (Online)          | HEC recognized (Y Category)                            |
| 21 | <b>S. A. Channa</b> , F.N. Kaleri and R Kumbhar  | Genetics of different economic traits of <i>Gossypium hirsutum</i> L.   | <b>Pakistan Journal of Agriculture Agricultural Engineering</b>                     | <b>2009</b> , 25 (1) 25-28 ISSN 1023-1072 ISSN: 2663-7863 (Online)            | HEC recognized (Y Category)                            |

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|----|--|--|---|--|-----------------------------|
|    |  |  | <b>Veterinary Sciences</b>  |  |                             |
| 22 | W.A. Jatoi, M.J. Baloch, <b>S.A. Channa</b> , N.F. Vessar and S.A. Panhwar   | Studies on genetic parameters for earliness and agro-economic traits in F <sub>3</sub> progenies of upland cotton ( <i>Gossypium hirsutum</i> L.)      | <b>Pakistan Journal of Agriculture Agricultural Engineering Veterinary Sciences</b> | 2009, 25 (2) 19-25<br>ISSN 1023-1072<br>ISSN: 2663-7863<br>(Online)          | HEC recognized (Y Category) |
| 23 | Shazia Rajput, Saifullah Abro, M.B. Kumbhar, A. Rehman and <b>S.A. Channa</b>  | Association of some characters in upland cotton  | <b>Pakistan Journal of Seed Technology</b>  | Vol.2, (13 & 14) 39-47, 2009<br>ISSN:1680-4317=3D                            |                             |
| 24 | <b>S.A. Channa</b> , M.S. Kalwar, M.M. Kandhro and R Kumbhar   | Magnitude of gene action for different economic traits of upland cotton ( <i>Gossypium hirsutum</i> L.)  | <b>Pakistan Journal of Agriculture Agricultural Engineering Veterinary Sciences</b> | 2006, 22 (2) 16-20<br>ISSN 1023-1072<br>ISSN: 2663-7863<br>(Online)          | HEC recognized (Y Category) |
| 25 | Soomro Z.A., M. Khalid, T.F. Abro., G.S. Mangrio., <b>S.A. Channa</b> ., U.A. Kasi., P.A. Shar., M.D. Hassni and R.A. Shah                 | Response of interspecific crosses in F <sub>1</sub> and their deterioration in F <sub>2</sub> generation of bread wheat ( <i>Triticum aestivum</i> L.) | <b>Journal of sustainable agricultural research</b>                                 | 6(4): 198-202 (2019)   |                             |
| 26 | Javed Hussain Sahito, Shibin Gao, Zhi Nie, Saifullah Abro, <b>Siraj Ahmed Channa</b> , and Niaz Ahmed Wahocho                              | Correlation Analysis of Yield and Fiber Traits in Upland Cotton ( <i>Gossypium hirsutum</i> L.)  | <b>American-Eurasian J. Agric. &amp; Environ. Sci.,</b>                             | 16 (7): 1331-1334, 2016<br>doi: 10.5829/idosi.aejaes.2016.16.7.12946<br>2016 |                             |
| 27 | Javed Hussain Sahito, Shibin Gao, Sajid Hussain Rao, Saifullah Abro, <b>Siraj Ahmed Channa</b> , Abdul Wahid Baloch and Niaz Ahmed Wahocho | Association of quantitative traits in upland cotton ( <i>Gossypium hirsutum</i> L.)  | <b>J. Appl. Environ. Biol. Sci.</b>   | 6(6)8-12, 2016   |                             |
| 28 | Farah Naz Kaleri, Muhammad Abdul Rehman Rashid, Zahoor Ahmed Soomro, <b>Siraj Ahmed Channa</b> and Shahnawaz Mari                          | Diallel Analysis for Lint Yield per Plant, Lint Index and Staple Length in Upland Cotton   | <b>American-Eurasian J. Agric. &amp; Environ. Sci.</b>                              | 15 (3): 332-338, 2015<br>DOI:10.5829/idosi.aejaes.2015.15.3.12543 2015       |                             |
| 29 | Farah Naz Kaleri, Muhammad Abdul Rehman Rashid, Shahnawaz Mari, Zahoor Ahmed Soomro and <b>Siraj Ahmed Channa</b>                          | Nature of Gene Action for Certain Agronomic Characters in <i>Gossypium hirsutum</i> L.   | <b>American-Eurasian J. Agric. &amp; Environ. Sci.</b>                              | 15 (3): 462-469, 2015<br>DOI:10.5829/idosi.aejaes.2015.15.3.12561 2015       |                             |
| 30 | Farah Naz Kaleri, Muhammad Abdul Rehman Rashid, <b>Siraj Ahmed Channa</b> , Shahnawaz Mari, Zahoor Ahmed Soomro                            | Gene Action for Yield and Important Yield Components in <i>Gossypium hirsutum</i> L. Using Half Diallel System   | <b>American-Eurasian J. Agric. &amp; Environ. Sci.</b>                              | 15 (3): 470-477, 2015<br>DOI: 10.5829/idosi.aejaes.2015.15.3.12562<br>2015   |                             |
| 31 | Aziz Ahmed, Tanveer Arif, Mahar Amanullah,   | In-situ Conservation of <i>Commiphora wightii</i> : an   | <b>Universal Journal of Agricultural</b>  | 1(3):103-109, 2013<br>DOI:10.13189/ujar.2                                    |                             |

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|----|--|---|---------------------------|-----------------------------------|--|
|    | Humaira wasila, Imran Ahmad, Bharumal Amrani, Saeed Akhtar Abro, <b>Siraj Ahmed Channa</b> , Zahid Hussain Jalbani | Endangered Medicinal Shrub through Integrated Participatory Approach in the Nagarparkar Hills of Tharparkar, Pakistan | <b>Research</b>           | 013.010310<br><b>2013</b>         |  |
| 32 | <b>S. A. Channa</b> , M.A. Mangi, M.J. Rind F.N. Kaleri and S. Abro  | Diallel analysis of yield and yield components of ( <i>Gossypium hirsutum</i> L.).                                    | <b>Life Sci. Int. J.,</b> | 4 (4): 1905 – 1911<br><b>2010</b> |  |

#### List of PhD students guiding as co-supervisor

| S. No. | Student Name and Registration number   | Research project title  | Year                            |
|--------|--|---|---------------------------------|
| 1      | Sajid Hussain Rao<br>PhD-2K16-PG-04    | Quantitative genetic analysis of rapeseed ( <i>Brassica napus</i> L.) under water stress conditions                               | Thesis defended on 16 Dec, 2021 |
| 2      | Deepak Raj<br>PhD-2K16-AG-04           | Impact of planting patterns NPK application on yield and quality of sunflower ( <i>Helianthus annus</i> L.)                       | Thesis in Process               |
| 3      | Imran Ali Chandio<br>PhD-2K15-AG-04    | Developing efficient method and schedule of nitrogen application for diverse genotypes of sunflower ( <i>Helianthus annus</i> L.) | Thesis Process                  |
| 4      | Ghulam Mujtaba Jamro<br>PhD-2K14-AG-01 | Allelopathic potential of sorghum and Bermuda grass for weed management and yield improvement of rice ( <i>Oryza sativa</i> L.)   | Thesis in Process               |

#### List of M.Sc students supervised

| S. No. | Student Name and Registration number | Research project title  | Year |
|--------|--------------------------------------|---|------|
| 1      | Yaqoob Khan Chandio<br>2K19-PG-141   | Study of correlation and regression analysis of yield and yield components of bread wheat ( <i>Triticum aestivum</i> L.) genotypes                    | 2021 |
| 2      | Fazal Ali<br>2K19-PG-115             | Character association and genetic distance analysis in bread wheat genotypes of Sindh and Balochistan   | 2021 |
| 3      | Anwar Ali Odhano<br>2K18-PG-85       | General and specific combining ability studies in F <sub>2</sub> population of rice ( <i>Oryza sativa</i> L.)   | 2021 |
| 4      | Ahsanullah Rajper<br>2K17-PG-114     | Estimation of heritability and genetics advance for fiber and yield attributes in F <sub>2</sub> generation of cotton ( <i>Gossypium hirsutum</i> L.) | 2021 |
| 5      | Ahsanullah Rajper<br>2K17-PG-114     | Genetic variability studies in F <sub>3</sub> population of upland cotton genotypes   | 2021 |
| 6      | Abdul Gaffar Shah<br>2K16-PG-59      | Correlation and path-coefficient analysis of yield and yield components in mustard ( <i>Brassica juncea</i> L.)                                       | 2019 |
| 7      | Aftab Ali Samtio<br>2K16-PG-61       | Study of correlation and regression analyses of yield and yield components of exotic wheat ( <i>Triticum aestivum</i> L.) genotypes                   | 2019 |
| 8      | Ali Sher Jhaskheli<br>2K16-PG-65     | Correlation and regression analysis between yield and yield component in rapeseed ( <i>Brassica napus</i> L.)   | 2019 |
| 9      | Maqsood Ali Bughio<br>2K16-PG-82     | Effect of heat stress on yield and yield components of elite lines of bread wheat under varying planting dates  | 2019 |

**List of M.Sc students co-supervised**

| <b>S. No.</b> | <b>Student Name and Registration number</b> | <b>Research project title</b>   | <b>Year</b> |
|---------------|---|---|-------------|
| 1             | Hizbullah Mengal<br>2K19-AG-27              | Growth and yield response on mustard variety S-9 to boron fertilization   | 2021        |
| 2             | Zakia Kandhro<br>2K19-AG-114                | Exploring the genetic variability of heat tolerance in cotton genotypes assessed through phenological, yield and fiber quality traits | 2021        |
| 3             | Rashid Ali<br>2K18-PG-108                   | Estimation of genetic variability, heritability and correlation in F <sub>2</sub> population of wheat ( <i>Triticum aestivum</i> L.)  | 2021        |
| 4             | Santosh Kumar<br>2K18-PG-115                | Assessment of heritability and genetic advance in F <sub>2</sub> segregating population of hexaploid wheat                            | 2021        |
| 5             | Saeed Ahmed<br>2K17-AG-48                   | Different row spacing on the growth and of local and hybrid varieties of Sunflower ( <i>Helianthus annuus</i> L.)                     | 2021        |
| 6             | Rakhesh Kumar<br>No. 2K17-PG-142            | Diallel Analysis for different quantitative traits of spring wheat ( <i>Triticum aestivum</i> L.)                                     | 2020        |
| 7             | Farhan Khanzada<br>2K17-AG-16               | Effect of the weed management practices on growth and yield of indigo ( <i>Indigofera tinctoria</i> L.)                               | 2019        |
| 8             | Abdul Gaffar<br>2K16-PG-60                  | Estimation of genetic variability and heritability in F <sub>4</sub> populations of bread wheat ( <i>Triticum aestivum</i> L.)        | 2019        |
| 9             | Ghulam Fareed Dehwar<br>2K16-PG-72          | Estimation of heterosis in F <sub>1</sub> hybrids of bread wheat genotypes  | 2019        |
| 10            | Rizwan Ali Kumbhar<br>2K16-PG-91            | Evaluation of exotic wheat ( <i>Triticum aestivum</i> L.) germplasm for adaptation in normal and high temperature environments        | 2019        |
| 11            | Shafqat Ali Bhatti<br>2K16-AG-36            | Effects of different sowing methods on the growth and yield of wheat ( <i>Triticum aestivum</i> L.)                                   | 2019        |
| 12            | Naeem Niaz Wandiar<br>2K16-AG-37            | Effect of irrigation on the growth and yield wheat ( <i>Triticum aestivum</i> L.) variety TD-1  | 2019        |
| 13            | Abdul Majid Narejo<br>2K16-AG-03            | Growth and yield of wheat under the influence of potassium and zinc application   | 2019        |
| 14            | Ziauddin Gopang<br>2K16-AG-58               | Inhibitory or promoting effects of Allelopathic weed ( <i>Phalaris minor</i> Retz.) on germination and seedling growth of wheat       | 2019        |
| 15            | Muhammad Hasnain Sabir<br>2K15-AG-32        | Growth and yield performance of cotton ( <i>Gossypium hirsutum</i> L.) varieties under the impact of different sowing dates           | 2019        |
| 16            | Mohsin Wadho<br>2K16-AG-28                  | Response of sole and mixed application of zinc and copper on the growth and yield of wheat ( <i>Triticum aestivum</i> L.)             | 2019        |



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| 17 | Najeeb Ahmed Khan<br>2K15-PG-151 | Assessment of genetic diversity in bread wheat genotypes based on physiological, growth, yield and its related traits | 2017 |
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