

RABIA BASHIR

1610 Logan Dr., Apartment # 16, Southern Hills, Carbondale, IL-62901. USA

Voice: (618) 319 4059; Email: rabiab@siu.edu

EDUCATION**05/'06 MS (PLSS)** Southern Illinois University Carbondale, IL, USA; **Currently Enrolled, GPA:** 4.00/ 4.00**09/'02 B.Sc. (Hons.) Agriculture;** University of Arid Agriculture Rawalpindi, Pakistan; **GPA:** 3.71/ 4.00; **Class Rank:** 7th**5/ '97 HSSC (Pre-Medical);** Pakistan Quality Residential College, Pakistan; **Marks:** 780/ 1100; **Class Rank:** 2nd**IMPORTANT PROJECTS & RESEARCH EXPERIENCE****MS Research Project:** Developing Markers from BAC (Bacterial Artificial Chromosome) End Sequence (BES) to Improve Marker Assisted Selection (MAS) in Soybean. (<http://bioinformatics.siu.edu> & <http://www.siu.edu/~pbgc/>)**1-8/'04 Growth, maintenance and scoring phenotypic data for soybean mutagenized M2 libraries for TILLING** (Forrest and Williams82), Horticulture Research Center, Southern Illinois University Carbondale.**Undergrad Projects:** Varietal Differences of Seed Deterioration in Soybean (Through Accelerated Aging Technique). **5-7/ '02, Seed Preservation Laboratory** (at Plant Genetic Resources Institute (PGRI)), National Agricultural Research Centre (NARC), Islamabad, Pakistan**7/ '02, Canopy Architecture & Solar Radiation:** Studied Genetic & Environmental factors that affect the development, parameters of leaf development, leaf orientation, canopy structure & light interception, factors affecting radiation receipt, effect of mutual shading of leaves & hemisphere (Fish Eye) canopy photography technique. *Realized the vast application of this subject in agriculture.***12/ '01 Screening of Mustard Germplasm for Physiological Characters & Fatty Acid Profile:** Screened mustard germplasm and identified physiological characters & made fatty acid profile. *Compiled the report that was selected for the References & Helping Material for studies.***MAJOR SUBJECTS STUDIED**

- 1) Genomics & Bioinformatics
- 2) Genomics of Eukaryotes
- 3) Inferential Statistics
- 4) Problems Agri Tech
- 5) Introduction to Agricultural Biotechnology

HONORS & AWARDS**'04/'06** Assisted in conducting a laboratory session for the participants of the 28th Illinois Junior Science and Humanities Symposium (IJSHS) at SIUC- <http://www.science.siu.edu/ijshs/labs.html>**'04/'05** Assisted in conducting a laboratory session for the participants of the 27th Illinois Junior Science and Humanities Symposium (IJSHS) at SIUC- <http://www.science.siu.edu/ijshs/2005.html>**'04-'05** Active Participant of **IN GEAR** (International Network for Global Educational Activities in Rural Schools)- International Students & Scholars (ISS), SIUC.**'04-'05** Volunteer for The New International Student Orientation Week organized by International Students & Scholars (ISS), SIUC.**'95-'97** National Cadet Corps & Women Guards Training Certificate

RABIA BASHIR

1610 Logan Dr., Apartment # 16, Southern Hills, Carbondale, IL-62901. USA

Voice: (618) 319 4059; **Email:** rabiab@siu.edu

- '97 High School's Head Girl Award
- '95 School's Head Girl Award (Class 10)
- '92 Art Competition (Award) at National Science & Technology Fair, Pakistan

PROFESSIONAL TRAININGS / WORKSHOPS

- '06 Teaching Assistant (laboratory sessions) for the Course "Introduction to Agricultural Biotechnology" in the Department of Plant, Soil & Agricultural Systems at Southern Illinois University Carbondale.
- 11/'05 Illinois State's Employee Ethics Training (<http://www.etcc.il.gov>)
- 08/'05 Graduate Research Assistants' Training Workshop - Southern Illinois University Carbondale
- 06/'05 Selected to serve as a committee member to select PBGC pool positions (Multiple Associate & Assistant Scientists & Multiple Researchers in Plant Biotechnology) at SIUC.
- '05 Member of the advisory board & a volunteer for Women & Leadership in the Muslim World Project (www.siu.edu/~wid) funded by U.S. Department of State through a grant from NAFSA Association of International Educators

PROFESSIONAL ASSOCIATIONS

- '04-'05 Member of SIU Alumni Association
- '04-'05 Member of SIU Alumni Council
- 9/'02 Member of International Organization of Pakistani Women Engineers (IOPWE: www.iopwe.org)
- '00-'02 Member of the University Blood Donor Society
- '99-'02 Member of the University Tutorial Groups (Inter-departmental)
- '94-'95 Senior member of the School Proctor Board
- '95 Member of School Disciplinary Committee

PUBLICATIONS

Shultz, J., Yasudas, C., Nagajyothi, L., Kazi, S., **Bashir, R.**, Iqbal, M. J., Afzal, J., Shopinski, K., Jayaraman, D., Wu, C., Town, C., Zhang, H and Lightfoot, D.A (2005). **The Soybean Genome Database (SoyGD): a browser for display of duplicated, polyploidy, regions and sequence tagged sites on the integrated physical and genetic maps of *Glycine max*.** *Nucleic Acids Research*

PUBLISHED ABSTRACTS

Jeffery Schultz, Chester Langin, Nagajothi Lavu, M Javed Iqbal, Kay Shopinski, Jawad Afzal, Samreen Kazi, **Rabia Bashir**, Chenchag Wu, Chris Town, Hongbin Zhang and David Lightfoot. **Genome Evolution-Framework Genome Comparisons Among *Medicago truncatula*, *Arabidopsis thaliana* and *Glycine max* Shows Separate Paleopolyploid Genome Structures has Provided Aneuploids in Disease Resistance and Other Trait Loci.** 2005 Model legume Congress, Pacific Grove, California, June 5-9, 2005, pg:153

<http://www.eugrainlegumes.org/meetings/documents/MLCAbstract1.pdf#search='2005%20model%20%20legume%20congress'>

RABIA BASHIR

1610 Logan Dr., Apartment # 16, Southern Hills, Carbondale, IL-62901. USA

Voice: (618) 319 4059; Email: rabiab@siu.edu

Jeffrey Shultz , N Lavu , Chet Langin , Kay Shopinski , S Kazi , **R Bashir** , J Iqbal , J Afzal , C Town , K Meksem , H Zhang , C Wu , David Lightfoot. **Uses of the Soybean Sequence Ready Physical Map.** Plant and Animal Genome. January 15-19, 2005 Town & Country Convention Center, San Diego, CA. http://www.intl-pag.org/pag/13/abstracts/PAG13_W205.html

POSTER PRESENTATIONS

Kazi, S., **Bashir, R.**, Shultz, J., Langin, C., Iqbal, M.J., Lightfoot, D.A. **Development and Mapping of 1053 New SSR Markers from the Soybean Sequence Ready Physical Map.** Poster presented at the Plant & Animal Genome Conference. January 15-19, 2005, Town & Country Convention Center, San Diego, CA.

Lightfoot, D.A., Shultz, J., Yasudas, C., N Lavu , Kazi, S., **Bashir, R.**, Iqbal, M.J., Afzal, J., Shopinski, K., Jayaraman, D., Wu, C., Town, C., Zhang, H. **The Complete Physical Map of *Glycine max* (L.) Merrill, Shows the Paleopolyploid Genome Structure Provides Aneuploids in Disease Resistance and Other Traits.** Poster presented at the American Society of Plant Biologists (ASPB) meeting, Seattle, WA, July 16-20, 2005.

Yesudas, C., Lightfoot, D.A., Shultz, J., Nagajothi, L., Iqbal, M.J., Shopinski, K., Afzal, J., Kazi, S., **Bashir, R** and Jayaraman, D. **Positional Cloning of Genes Underlying QTL for Isoflavones, Protein, Oil and Insect Resistance in Soybean , *Glycine max*. (L.) Merrill.** Poster presented at the American Society of Plant Biologists (ASPB) meeting, Seattle, WA, July 16-20, 2005

Jayaraman, D., Yesudas, C, Kazi, S., **Bashir, R.**, Afzal, J., Lightfoot, D.A. Genomics Core-Facility, Southern Illinois University at Carbondale, Carbondale, IL 62901-4415 USA. **Recent Additions to the Soybean Genome Database (SoyGD): A Browser for Display of the Integrated Physical, Genetic and Gene Maps of *Glycine max*.** Poster presented at the Plant & Animal Genome Conference. January 14-18, 2006, Town & Country Convention Center, San Diego, CA.

Kazi, S., Shultz, J., Afzal, J., **Bashir, R.**, Jayaraman, D., Iqbal, M.J., Lightfoot, D.A. **Development and Mapping of BAC-End Sequence Derived SSR Markers Linked to Candidate Loci from the Soybean Sequence Ready Physical Map.** Poster presented at the Plant & Animal Genome Conference. January 14-18, 2006, Town & Country Convention Center, San Diego, CA.

Kazi, S., Karangula, K., **Bashir R.**, Jayaraman, D., Gupta, L., Lightfoot, D.A. **Comparison Of Genome Structures In Soybean Cultivars Displaying "Linkage Drag" Suggests Genome Architecture Not Linkage Alters Plant Performance.** Poster presented at the Plant & Animal Genome Conference. January 14-18, 2006, Town & Country Convention Center, San Diego, CA.

COMPUTER & OTHER SKILLS**Laboratory & Field Experience**

1. Marker Assisted Selection (MAS)
2. Recombinant DNA Techniques (PCR, Molecular Markers)
3. Gel/DNA Electrophoresis
4. Green House/ Growth Chamber Work
5. DNA Extraction Methods (leaves & seeds)- Manual / Using Kits
6. Data Collection & Record Keeping Skills

Computer & Software

MS (Windows 98, Word 2000, Excel 2000, PowerPoint)

SPSS.

SAS.

RABIA BASHIR

1610 Logan Dr., Apartment # 16, Southern Hills, Carbondale, IL-62901. USA

Voice: (618) 319 4059; **Email:** rabiab@siu.edu

Map Maker & QTL Cartographer.

Languages: (Reading, Writing, Speaking)

English (fluent, fluent, fluent)

Urdu (fluent, fluent, fluent)

Kashmiri (functional, functional, functional)

Punjabi (functional, functional, functional)

EXTRA CURRICULAR ACTIVITIES

Reading, Essay Writing, Badminton, Cycling and Cooking.

REFERENCES

1. Dr. David A. Lightfoot (MS Supervisor & Employment Ref.)

Professor for Biotechnology and Genomics

Southern Illinois University,

Carbondale, IL, 62901, USA

Voice: (618)-453-1797

Email. ga4082@siu.edu

2. Dr. Ahmad Fakhoury (Academic Ref.)

Department of Plant, Soil and Agricultural Systems

Southern Illinois University - Carbondale

Carbondale, IL 62901-4415

Voice: (618) 453-1782

Email: amfakhou@siu.edu

3 Dr. David A. Shoup (Academic Ref.)

Professor

AGSY, Room: AG 145

SIU Carbondale, IL 62901

Voice: 618-453-6233

Email: dshoup@siu.edu

- **Other References Available if Required.**