Blaine E Johnson
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Professional History

Current:
> DuPont Pioneer: Retired
> University of Nebraska, Dept. Agronomy & Horticulture: Adjunct Professor and Lecturer
> North Dakota State University, Dept. Plant Sciences: Adjunct Professor

2002- March 2016: DuPont Pioneer
> Position:
> Senior Research Scientist
> Hybrid Crop Development, Wheat
> Lincoln NE

> Career at Pioneer:
> > 2013-March 2016:
> > Pioneer Senior Research Scientist, Wheat Product Development, Lincoln, Nebraska
> > > Responsibilities:
> > > - Build a research and development program in North America for the hard winter and hard spring classes of wheat, targeting commercialization of hybrid wheat seed
> > > - Acquisition of hard winter and hard spring wheat germplasm
> > > - Develop collaborative projects with public wheat breeding programs to support DuPont Pioneer's new R&D effort in the hard classes of wheat

> > 2008-2013:
> > Pioneer Senior Research Scientist, Maize Product Development, York, Nebraska
> > > - Project lead for 108 RM corn breeding project for western sales region
> > > - Technical support to the western regional sales team

> > 2005-2008:
> > Pioneer Senior Research Scientist, Performance Predictability and Molecular Breeding, Mankato, Minnesota/Johnston, Iowa
> > > - Development of statistical and analytical tools used for product evaluation and advancement

- Training staff and scientists (globally) in application and utilization of proprietary information management software

2002-2005:
Pioneer Senior Research Scientist, Product Knowledge and Delivery, Mankato, Minnesota
- Characterization and advancement of 100-103 CRM commercial hybrid products
- Technical support to the northern regional sales team

Special recognition/rewards:
Two DuPont Pioneer awards for work on development of statistical tools and software used for hybrid advancement

Patents awarded while with Pioneer:
Numerous patents on commercial maize hybrids and maize inbred lines

1997-2002- Monsanto
Roles while at Monsanto
Senior Hybrid Wheat Breeder and Technical Director, NA Hybrid Wheat Development
Responsibilities:
- Lead for the hard winter wheat breeding program, targeting commercial hard winter, white wheat products
- Lead introduction of molecular breeding techniques to the NA hard wheat product development team

Global Director, Quality Trait Breeding-Maize
- Coordinate quality trait product development (maize) for Monsanto
- Regions covered:
  - Thailand
  - China
  - Brazil
  - Argentina
  - US

1989-1997-University of Nebraska
Faculty, Agronomy Department, University of Nebraska
Appointment: 80% Research, 20% Teaching
Responsibilities:
- Research Project:
  Maize Breeding and Quantitative Genetics
- Teaching - Courses Taught (all graduate level courses)
  Population Genetics
  Biometrical Genetics and Plant Breeding
  Matrix Algebra for Statistics

- Advising graduate students

1986-1989-USDA/ARS, Lincoln, NE
    Research Geneticist, Grain Sorghum
        Appointment: 100% Research
        Responsibilities:
- Develop and evaluate methodologies used for genetic improvement of elite sorghum germ plasm
- Develop systems for efficient development of cytoplasmic male sterile and restore lines used as parents for sorghum hybrids
- Introgression of non-domestic germplasm into elite germplasm adapted to the high plains of the US

1973-1983-Ower/Manager-Black Cow Cattle Company, Ainsworth, NE
    250 cow/calf herd
    800 head feedlot
    1,000 acre irrigated farm
        Corn
        Alfalfa

Education Background:
    1971: BS, Range Management and Ruminant Nutrition (Honors Program), University of Nebraska
    1973: MS, Plant Breeding and Statistics, Oregon State University
    1986: PhD, Quantitative Genetics/Applied Mathematics, University of Nebraska

Professional Affiliations:
    American Association for the Advancement of Science
    Crop Science Society of America
    Society for Range Management
    Phi Kappa Phi
    Sigma Xi

Recent Academic Activities:

Graduate Education Initiative
    Member of committee charged with review and assessing graduate education in Department of Agronomy & Horticulture, University of Nebraska

Recent Courses Taught
    Fall 2018 and Fall 2019
    AGRO 815D, Breeding Cross Pollinated Crops
    For resident and distant ed graduate students
    Department of Agronomy and Horticulture, University of Nebraska-Lincoln

    Spring 2020
    AGRO 986: Field Research: Design, Analysis, and Reporting
    For resident and distant ed graduate students

Department of Agronomy and Horticulture, University of Nebraska-Lincoln

Workshop Given
14-15 February 2017
"Use and Analysis of Unbalanced Data"
Department of Plant Science, North Dakota State University
Leads: Blaine Johnson (Adjunct Professor), Keith Boldman (DuPont Pioneer), Rich Horsley, Dept Head & Barley Breeder

Workshop Given
9-10 January 2018
"Field Evaluation and Analysis of Unreplicated and Unbalanced Field Experiments"
Department of Plant Science, North Dakota State University
Leads: Blaine Johnson (Adjunct Professor), Keith Boldman (DuPont Pioneer), Rich Horsley, Dept Head & Barley Breeder

Workshop Given:
19-20 March
"Field Evaluation and Analysis of Non-replicated and Unbalanced Field Experiments"
Department of Agronomy & Horticulture, University of Nebraska
Leads: Blaine Johnson (Adjunct Professor), Keith Boldman (DuPont Pioneer)

Selected Publications

B. Johnson. 1989. The probability of selecting genetically superior S3 lines from a maize population. Maydica 34: 5-14.

B.E. Johnson, J.S. Posch, C.O. Gardener, and T.C. Hogemeyer. 1997. Registration of 42 maize parental lines: N501 to N521, N523 to N526, N528 to N530, and N532 to N545. Crop Sci. 37:1404-1405.

M. Obaidi, B.E. Johnson, L.D Van Vleck, S.D. Kachman, and O.S. Smith. 1998, Family *per se* response to selfing and selection in maize based on test cross performance: A simulation study. Crop Sci, 38:367-371.

B. Johnson and Y.H. Liu. 1997. Classification of maize S2 families using bicriteria linear programming. Maydica 42:317-322.