

Biographical Sketch

Yang Yen

Department of Biology and Microbiology

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Education:

Ph.D. (1989) University of Missouri-Columbia (Agronomy)

M.S. (1986) Nanjing Agricultural University, Nanjing, China (Crop Genetics and Breeding)

Undergraduate diploma (1978) Sichuan Normal University, Chengdu, China (English)

Employment & Professional Experience:

Assistant Professor, Associate Professor and Professor, South Dakota State U (1996 -present)

Visiting Professor, Duke University (2008)

Visiting Professor, Delaware Biotechnology Institute/University of Delaware (2007)

Assistant Professor, University of Nebraska-Lincoln (1992-96)

Research Associate, University of Nebraska-Lincoln (1991-92)

Research Associate, MSU-DOE Plant Research Laboratory, Michigan State U (1990-91)

Professional Award and Honor Society:

The Sears-Longwell Award (1990) By University of Missouri to recognize the superior contribution to genetics in agriculture through scholarship and research at the University of Missouri.

Gamma Sigma Delta (since 1992)

Professional Society Memberships:

- American Society of Agronomy
- Crop Science Society of America
- Association of Chinese Soil and Plant Scientists in North America

Elected Service Positions Hold:

- Treasurer/ Secretary (1996-1997), Vice President (1997-98) and President (1998-99), Association of Chinese Soil and Plant Scientists in North America
- Member, the Minorities in Agronomy Committee of the American Society of Agronomy (ACS528), (2000 - 2003)
- Member, the Teaching Award Committee, Crop Science Society of America (2002-2004)
- Ad-hoc reviewer of *Theoretical and Applied Genetics*, *Genome*, *Crop Science*, and *Euphytica* (every year since 1991)
- Ad-hoc reviewer of NSF (every year since 1996)
- Ad-hoc reviewer of USDA-ARS-NRI (1996-2012)
- Ad-hoc reviewer of USDA-NIFA-AFRI (every year since 2012)
- Member, SDSU Academic Appeals Committee (2001-2004)
- Member, SDSU Research Advice Council (2004-2007)
- Member, SDSU Committee on Committees (2006)
- Member, SDSU Graduate Council (2007-2010; 2016-present)
- Senator, SDSU Faculty Senate (2006-2009, 2009-2012)
- Director, SDSU Faculty Senate (2011-2012)
- Member, SDSU Bio-Micro Departmental Executive Committee (2009-present)
- Member, SDSU Bio-Micro Departmental Tenure and Promotion Committee (2009-present)

Courses taught at South Dakota State University:

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- ABS 702 Advanced Genetics (2 credits, Fall 2004)
- ABS 705 Molecular Research and Diagnostic Methodology (3 credits, Spring 2004-present)
- Biol 592 Applied Bioinformatics (2 credits, Spring 2005-2007)
- Biol 343 Cell Biology (3 credits, 2000-2001)
- Biol201/203 Cellular, Genetics & Organismal Biology (3 credits, Fall & Spring 2001-2003)
- Bios 662 Advanced Cellular & Molecular Biology (6 credits, Fall 2005-present)
- Bios 664 Molecular Plant Physiology (6 credit, Spring 2010-present)
- Bot 781 Plant Biotechnology (3 credits, Fall 1998-2006)
- Bot 372 Plant Physiology (3 credits, Spring 1996-1998)
- PS/Biol 773 Cytogenetics (3 credits, Fall 1999-2001)

Active Extramurally Funded Research Projects:

- “Improving winter hardiness and drought tolerance of rapeseeds for double cropping with soybean, spring wheat or corn in South Dakota and the region” funded by South Dakota Oilseeds Initiative to Y. Yen, 07/01/13-06/30/15.
- “Elucidating the molecular function and mechanism of major QTL *Fhb1* in resisting *Fusarium* head blight in wheat” funded by USDA-NIFA-AFRI to Y. Yen (PI), S. Ali and Y. Wu; 12/15/13-12/14/16.
- “Improving FHB resistance in hard winter wheat by molecular breeding/manipulation” funded by USDA-ARS-USWBSI to Y. Yen (PI); 05/01/2016-04/30/2018.

Publications:

Peer-reviewed Journal Articles since 2011:

51. Basnet BR, Glover KD, Ibrahim AMH, Yen Y, Chao S. 2012. A QTL on chromosome 2DS of “Sumai 3” increase susceptibility to *Fusarium* head blight in wheat. *Euphytica* 186:91-101.
52. Malla S, Ibrahim AMH, Yen Y, Glover KD, Berzonsky WA. 2012. Association of *Fhb1* and *Qfhs.ifa-5A* in spring versus winter growth habits in bread wheat (*Triticum aestivum* L.). *J Agri Sci.* 4: 39-48.
53. Luo J, Hao M, Zhang L, Chen J, Zhang L, Yuan Z, Yan Z, Zheng Y, Zhang H, Yen Y, Liu D. 2012. Microsatellite mutation rate during allohexaploidization of newly resynthesized wheat. *Intl J Mol Sci.* 13:12533-12543.
54. Zhuang Y, Galla A, Yen Y. 2013. Identification of functional genic components of major FHB-resistance QTLs in wheat cultivar Sumai 3. *Mol Plant Microbe In.* 26:442-450.
55. Hao M, Luo J, Zhang L, Ning S, Yuan Z, Yan Z, Zhang H, Paux E, Zheng Y, Fruillet C, Yen Y, Zhang L, Liu D. 2014. QTug.sau-3B is a major quantitative trait locus for wheat hexaploidization. *G3: GENES, GENOMES, GENETICS* 4: doi: 10.1534/g3.114.013078.
56. Wu Y, Wang R, Auger D, Campbell M, Yen Y. 2015. A high-amylose modifier locus revealed by analysis of a homozygous amylose2 extender mapping population. *Crop Sci.* 55:(Posted 01/07/2015. doi:10.2135/cropsci2014.10.0676).
57. Wang X, Jiang G, Song Q, Cregan PB, Scott RA, Zhang J, Yen Y, Brown M. 2015. Quantitative trait locus analysis of seed sulfur-containing amino acids in two recombinant inbred line populations of soybean. *Euphytica* 201:293-305.
58. Andersen EJ, Ali S, Reese RN, Yen Y, Nepal MP. 2016. Diversity and evolution of disease resistance genes in barley (*Hordeum vulgare* L.). *Evolutionary Bioinformatics* (in press)