

**2010 International Symposium on Forage, Turfgrass and Biofuel Germplasm Research
Yangling, Xi'an, Shaanxi, China (9-13 October 2010)**

PROGRAM AGENDA

Saturday, 9 Oct. 2010

14:00-18:00	Registration
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Sunday, 10 Oct. 2010

07:00-08:00	Breakfast
09:00-10:00	<p>Welcome ceremony: Four persons from Ministry of Agriculture, Chinese Academy of Agricultural Science, Northwest A&F University, and Symposium Advisor Hong Fuzeng will give welcoming address</p> <p>Venue: Presiding: He Xintian (National Animal Husbandry Service, China)</p>
10:00-10:20	<p>Group photo of participants</p> <p>Venue:</p>
<p>Session 1: Collection, Conservation and Evaluation of Forage, Turf and Biofuel Germplasm: Current Status and Future Challenges</p> <p>Venue: Presiding: Douglas Johnson and Gao Hongwen</p>	
10:20-10:45	<p>He Xintian (National Animal Husbandry Service, China) Retrospect and Prospect of Forage Plant Germplasm Conservation in China</p>
10:45-11:10	<p>Gary Pederson (USDA-ARS, Plant Genetic Resources Conservation Unit, USA) Status of the U.S. Sweet Sorghum Collection for Biofuels Research</p>
11:10-11:35	<p>Ehsan Dulloo (Biodiversity International, Italy) Plant Genetic Resources in a Changing World</p>
11:35-12:00	<p>Nickolay Dzyubenko (N.I. Vavilov All-Russian Research Institute of Plant Industry, Russia) Forage Crops and Turf Grasses Collection in All-Russian Vavilov Institute of Plant Industry (VIR): History, Modern State and Future Challenges</p>
12:00-13:30	Lunch
12:30-13:30	Poster Viewing (authors present at posters)
13:30-13:50	Zhou Qingping (Grassland Science Institute, Qinghai Academy of Animal and Veterinary science, China)

	Review of Conservation and Utilization of Forage Germplasm in the Qinghai-Tibetan Plateau
13:50-14:10	Wang Xianguo (China Agricultural University, China) Collection and Evaluation of Warm-season Turfgrass Germplasm in China
14:10-14:30	Davganamdal Tumenjargal (Mongolian Forage Seed Producers Association, Mongolian Society for Range Management Bldg, Mongolia) Evaluation of Native and Introduced Forage Legumes and Grasses in Mongolia
14:30-14:50	Melanie Harrison-Dunn (USDA-ARS, Plant Genetic Resources Conservation Unit, USA) Curation of the U.S. Collection of Warm-Season Grass Germplasm
14:50-15:10	Tea break
Session 2: Genetic Diversity in Forage, Turf and Biofuel Crops	
Venue:	
Presiding: Wu Yanqi and Wang Suomin	
15:10-15:35	Ted Kisha (USDA-ARS, Western Regional Plant Introduction Station, USA) Using Molecular Markers to Analyze Genetic Diversity in Forage, Turf, and Biofuel Crops
15:35-16:00	Lu Xinshi (Beijing Forestry University, China) The Genetic Diversity of <i>Medicago sativa</i> in China
16:00-16:20	Zhang Xinquan (Sichuan Agricultural University, China) Molecular Diversity and Genetic Linkage Map Construction of Orchardgrass (<i>Dactylis glomerata</i> L.)
16:20-16:40	Wang Zan (Institute of Animal Science, Chinese Academy of Agricultural Science) The Genetic Diversity of <i>Caragana microphylla</i>
16:40-17:00	Vicki Bradley (USDA-ARS, Western Regional Plant Introduction Station, USA) Maintaining Genetic Diversity in the U.S. Cool-Season Grass Germplasm Collection
17:00-17:20	Hu Tianming (Northwest Agriculture and Forestry University, China) Phylogenetic Relationships of <i>Kobresia</i> Accessions from the Tibetan

	Plateau
18:30-20:00	Dinner (Banquet)

Monday, 11 Oct. 2010

07:00-08:00	Breakfast
Session 2: Applying Genomics to Genetic Resources	
Venue:	
Presiding: Ted Kisha and Chai Hongwei	
09:00-09:25	Steven Larson (USDA-ARS, Forage and Range Research Laboratory, USA) Identification of Species, Quantitative Trait Loci (QTLs), and Hybrids Important for Low-input Biomass Production and Heterosis in Semiarid Cold-growing Environments
09:25-09:50	Liu Gongshe (Institute of Botany, Chinese Academy of Sciences, China) Grass Genomic Resources and Application in <i>Leymus chinese</i>
09:50-10:15	Byung-Hynn Lee (Gyeongsang National University, Korea) Molecular Breeding of Forage and Bioenergy Plants by Transgenic and Proteomic Approaches
10:15-10:40	Wang Zengyu (The Samuel Roberts Noble Foundation, USA) Genetic Manipulation and Improvement of Bioenergy Crops
10:40-11:00	Tea Break
11:00-11:20	Takahiro Gondo (University of Miyazaki, Miyazaki, Japan) Biotechnology in Apomictic Grasses
11:20-11:40	Li Guiying (Institute of Crop Science, CAAS, China) Soluble Acid Invertase and Sucrose Phosphate Synthase are Key Enzymes Regulating Sucrose Accumulation in Sweet Sorghum Stems
11:40-12:00	Wang Suoming (Lanzhou University, China) The <i>ZxNHX</i> Gene Encoding Vacuolar Na ⁺ /H ⁺ Antiporter from the Xerophyte <i>Zygophyllum xanthoxylum</i> Plays Important Roles in Response to Drought
12:00-13:30	Lunch
12:30-1:30	Poster Viewing (authors present at posters)

13:30-17:00	Visit of Northwest Agricultural and Forestry University
18:30-20:00	Dinner

Tuesday, 12 Oct. 2010

07:00-08:00	Breakfast
Session 3: Bridging Genetic Resources and Breeding Programs	
Venue:	
Presiding: Wang Zengyu and Yun Xujiang	
09:00-09:25	Yun Jingfeng (Inner Mongolia Agricultural University, China) The Genetic Improvement and Utilization of Wheatgrass Germplasm
09:25-09:50	Doug Brede (Jacklin Seed by Simplot, USA) Turfgrass Germplasm Collection and Breeding
09:50-10:15	Toshihiko Yamada (Hokkaido University, Japan) <i>Miscanthus</i> Genetic Resources and Its Potential as an Energy Crop
10:15-10:40	Wu Yanqi (Oklahoma State University, USA) Genetic Variation and New Cultivar Development in Bermudagrass
10:40-11:00	Tea break
11:00-11:20	Yang Qingchuan (Institute of Animal Science, Chinese Academy of Agricultural Science, China) Cloning and Expression Analysis of a Vacuolar Na ⁺ /H ⁺ Antiporter Gene from Alfalfa
11:20-11:40	Chai Hongwei (China Agricultural University, China) SSR Marker Development and Linkage Map Construction in Zoysiagrass (<i>Zoysia</i> spp.)
11:40-12:00	Kevin Kenworthy (University of Florida, USA) Germplasm Evaluation of Alternate Warm-Season Turfgrass Species for Use in Florida and Lower Latitudes
12:00-13:30	Lunch
12:30-13:30	Poster Viewing (authors present at posters)

Session 5: International Collaborations to Address New Challenges	
Venue:	
Presiding: Teryl Roper and Zhang Yingjun	
13:30-13:55	Jack Staub (USDA-ARS, Forage and Range Research Laboratory, USA) Developing International Research Projects: The Case of the Sino/US Grass Alliance
13:55-14:20	Liu Guodao (Tropical Genetic Resources Institute, Chinese Academy of Tropical Agricultural Sciences, China) Collection, Conservation and Innovative Utilization of Tropical Forage Germplasm Resources
14:20-14:40	Han Guodong (Inner Mongolia Agricultural University, China) The Practice and Prospect of Grassland Science Interactions between US and China
14:40-15:00	Vladimir Chapurin (N.I. Vavilov All-Russian Research Institute of Plant Industry, Russia) Mobilization of Genetic Diversity of Forage Cereals and Legumes in European Part of Russian Federation
15:00-15:20	Douglas Johnson (USDA-ARS, Forage and Range Research Laboratory, USA) Importance of Strengthening International Cooperation Among Countries for Germplasm Collection, Evaluation and Utilization
15:20-15:50	Tea break
15:50-17:20	Closing ceremony: Yun Xujiang
18:30	Dinner

Wednesday, 13 Oct. 2010

Post-Symposium Tour in Xi'an

U.S. Participants

2010 International Symposium on Forage, Turfgrass, and Biofuel Germplasm Research
Northwest Agricultural and Forestry University, Yangling, China
9-13 October 2010

Session 1: Collection, conservation and evaluation of forage, turf and biofuel germplasm: Current status and future challenges

ARS, Pullman- Stephanie Greene (Curation of Alfalfa Germplasm for Forage/Biofuels)
ARS, Pullman- Vicki Bradley (Curation of the U.S. Collection of Cool-Season Grass Germplasm)
ARS, Griffin- Melanie Harrison-Dunn (Curation of the U.S. Warm-Season Grass Germplasm Collection)
ARS, Griffin- Gary Pedersen (Status of the U.S. Sweet Sorghum Collection for Biofuels Research)

Session 2: Applying genomics to genetic resources

ARS, Logan- Steve Larson (Genetic Markers for Biomass and Composition Traits for Forage and Biofuels)

Session 3: Bridging genetic resources and breeding programs

ARS, Logan- Blair Waldron (Collection and Breeding of *Kochia prostrata*)
ARS, Logan- Joe Robins (Collection and Evaluation of *Dactylis glomerata*)
Jacklin Seed- Doug Brede (Improving Forage and Turf Species in Commercial Companies)

Session 4: Genetic diversity in forage, turf and biofuel crops

ARS, Pullman- Ted Kisha (Evaluation of Genetic Diversity in Forage/Biofuel Species)
ARS, Logan- Doug Johnson (Assessing Genetic Diversity in Native Legumes from the Western USA)

Session 5: International collaborations to address new challenges

ARS, Logan- Jack Staub (ARS-USU-Chinese Grass Alliance for Forage, Turf and Biofuel Improvement)

Posters from U.S:

USU, Logan- Teryl Roper
USU, Logan- Earl Creech
USU, Logan- Paul Johnson



USDA-ARS Symposium Participants



Dr. Steve Larson interacting with a Chinese scientist



Dr. Teryl Roper, Department Head, Plant, Soils, and Climate, Utah State University presenting his poster



Dr. Joseph Robins interacting with Chinese scientists during the poster presentation session



Dr. Douglas Johnson providing an oral presentation on the importance of international cooperative research on the collection of grass germplasm



Drs. Steve Larson and Guodong Han (Inner Mongolia Agricultural University) sharing the venue of the International Symposium



Closing symposium remarks



U.S., Chinese, and Russian scientists pose at the symposium



Drs. Steve Larson (left) and Blair Waldron (right) concur that everything is good at the start of the trip (San Francisco)