Program of The international symposium on wheat improvement for scab resistance

May 5-May 10 of 2000

Wednesday, May 5

Registration and Check-in at Castle Hotel of Suzhou: 10.00 am –12.00 am
1:00 pm-6.00 pm

Dinner 6.00 pm-8.00 pm

Thursday, May 6

Breakfast: 7:00 am - 8:00 am

Registration and Check-in: 7:30 am - 8:30 pm

Morning Opening session 8:30 am - 12:00 pm Chairman: S. Rajaram

Opening Welcome 8:30 am - 8:50 am

To defeat scab-the duty-bound task of scientists worldwide
Dr. Dajun Liu 8.50 am-9.20 am

China's Agriculture and wheat scab disease
Dr. Liangshu Lu 9.20 am-9.50 am

Coffee break

Genome Research in plant improvement
Dr. Qifa Zhang 10.20 am-10.50 am

U.S. Wheat and Barley scab initiative
Dr. Rick Ward 10.50 am-11.20 am

Photo 11.20 am-11.40 am

Lunch 12.00 pm-1.00 pm

Afternoon Genetic resources 1.30 pm-5.00 pm Chairmen: B. S. Gill and Peidu Chen

Sources of resistance to Fusarium head blight
George Fedak 1.30 pm-2.00 pm

Transfer scab resistance from *Leymus racemosus*, *Roegneria ciliaris and Roegneria kamoji* into common wheat
Peidu Chen 2.00 pm-2.30 pm

In Vitro Activity, cDNA Cloning of an Antifungal protein with Strong *Gibberella zeae* resistance from *Gastrodia elata Blume*
YQ Wang 2.30 pm-2.50 pm

Coffee break

Progress in producing scab-resistant germplasm of durum wheat
Prem P. Jauhar 3.20 pm-3.50 pm

Fusarium head scab resistance evaluation programme in India
P S.Bagga 3.50 pm-4.10 pm

Intravariety possibilities in increasing wheat resistance to *Fusarium* Scab.
H. Klechkovskaya 4.10 pm-4.30 pm

Creation of New breeding lines for scab resistance using Ms2 gene
Guoliang Jiang 4.30 pm-5.00 pm

Welcome reception 6.30 pm-8.00 pm

Poster session 8.00 pm-10.00 pm

Friday, May 7

Breakfast: 7:00 am - 8:00 am

Morning Genetics
8.30 am-12.00 pm Chairmen: P. Nicholson and Z. Q. Ma

Analysis of genes induced in wheat spikes upon infection with *Fusarium graminearum* and their manipulation to improve wheat plant resistance to Fusarium head scab disease.
B.S. Gill 8.30 am-9.00 am

Studies on the genetics of resistance to *Fusarium* head blight caused by *Fusarium graminearum* in wheat
T. Ban 9.00 am-9.30 am

Molecular mapping of chromosomal regions associated with FHB resistance in barley
Z. Q. Ma 9.30 am-10.00 am

Coffee break

DNA Markers for Fusarium Head Blight Resistance QTL in Two Wheat Populations
JA. Anderson 10.20 am-10.50 am

Identification of RAPD markers linked to scab resistance in wheat Sumai3
Zhu Zuowei 10.50 am-11.10 am

Classical and molecular genetic analysis of Fusarium head blight resistance in wheat

H. Buerstmayr 11.10 am-11.30 am

Chromosomal location of *Fusarium* head blight resistance genes and analysis of the relationship between resistance to head blight and brown foot rot
P. Nicholson 11.30 am-12.00 am

Lunch 12.00 pm-1.00 pm

Afternoon Pathogenesis and pathogen-host relationships
1.30 pm-5.00 pm, Chairman: Robert Stack and YZ Wang

Occurrence, epidemics and control of wheat scab in China
YZ Wang 1.30 pm-2.00 pm

Variation *in Fusarium graminearum* associated with their host of origin
J. P. Carter 2.00 pm-2.20 pm

Deoxynivalenol-nonproducing *Fusarium graminearum* Causes Initial Infection, but does not Cause Disease Spread in Wheat Spikes
GH Bai 2.20 pm-2.40 pm

Relationship between aggressiveness and vegetative compatibility of isolates of Fusarium graminearum, and their ability to produce ergosterol and mycotoxins in rice culture
J. Gilbert 2.40 pm-3.00 pm

Coffee break

Research progress on scab pathogenesis in China
LF Chen 3.30 pm-4.00 pm

Population Structure of Gibberella zeae in the Great Plains of North America
Robert L. Bowden 4.00 pm-4.20 pm

RAPD Fingerprinting of Six Fusarium Species Causing fusarium blight in Cereals and Grasses
RL Xu 4.20 pm-4.40 pm

Deferentially expressed genes in *Fusarium*-inoculated wheat spikes during scab development
Y. Yen 4.40 pm-5.00 pm

Dinner 6.00 pm-7.00 pm

Poster session 7.30 pm-9.30 pm

Saturday, May 8

Breakfast; 7:00 am - 8:00 am

Morning	Breeding	8.30 am-12.00 pm	Chairmen: Fedak and WZ Lu

Progress in Wheat Breeding for Scab Resistance in China
J.B.Yao 8.30 am-9.00 am

Progress of China/CIMMYT Cooperation on Shuttle Breeding and Germplasm Exchange Aimed at Combining High Yielding Potential with Resistance to Scab
Z H He 9.00 am-9.20 am

New Sources of Scab Resistance and Breeding Progress at CIMMYT
L. Gilchrist 9.20 am-9.40 am

Sumai3: its development, genetic characteristics and applications in wheat breeding for Fusarium head blight (FHB) resistance
Li Binqi 9.40 am-10.10 am

Coffee break

Studies and Improvement on Wheat Breeding for Scab-Resistance using Biotechnology
Lu weizhong 10.40 pm-11.10 pm

Winter Wheat Breeding to Fusarium Head Scab in Krasnodar Research Institute of Agriculture
P.N.Ribalkin 11.10 pm-11.30 pm

Lunch	12.00 pm-1.00 pm	
Afternoon	1.30 pm-6.00 pm	Sightsee the Chinese gardens in Suzhou city

Sunday, May 9

Breakfast	6.00 am-7.00 am
Checkout	7.00 am-8.00 am
8.00 am	depart to Nanjing, en route visit Suzhou Institute of Agricultural Sciences, Wuxi city
12.00 pm	Lunch at Wuxi
1.30 pm	visit Huaxi villiage of Jiangyin county
6.00 pm	arrive at Nanjing and check in at Mandarin Garden Hotel
Dinner	6.30 pm-7.30 pm

Monday, May 10

Breakfast	7.00 am-8.00 am

8.00 am visit Institute of Agrobiological Genetics and Physiology of JAAS and their wheat scab research programs

Lunch 12.00 pm-1.00 pm

1.30 pm visit Cytogenetics Institute of NAU and their wheat scab research programs

6.00 pm-7.00 pm Banquet

Tuesday, May 11

Depart for post-symposium tour

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Posters

P01 Sources of resistance to *Fusarium* head blight (scab) of wheat
Maria Moldovan & V. Moldovan

P02 Rapid screening of wheat germplasm for *Fusarium* head blight resistance.
Díaz de Ackermann, Martha; Kohli, Man Mohan; Ibañez, Vilfredo, INIA La Estanzuela, CC

P03 A new scab resistant line and its cytogenetical study
Liu Zhaohui, Zhang Xu Yao Jingxia Lu Weizhon

P04 Preliminary study on application of synthetic hexaploidy wheat derived from Durum wheat x *T. tauschii* in common wheat for fusarium head blight (fhb) resistance
Sun Lianfa Song qingjie Qi Shiyu

P05 Expression of Candidate Anti-Fusarium Protein Genes in Transgenic Hexaploid Wheat
Patricia Okubara, Thomas Hohn, 2, Marcie Moore, Randy Berka, Celia Beamish, Jeanie Lin, Cherry Montejo, Olin Anderson, and Ann Blech

P06 Utilization of transgenic technique on breeding of scab-resistant wheat germplasm
Zhou Miaoping, Zhang Xu Zhu Zuowei Huang Yihong Ren Lijuan Lu Weizhong

P07 Radiation-induced *Triticum aestivum-Leymus racemosus* Translocations and their Molecular Cytogenetic Analysis
Liu Wen-Xuan, Chen Pei-Du Liu Da-Jun

P08 Molecular cytogenetic analysis of three common wheat-*Leymus racemosus* translocation lines
Bo Zhou, Xiue Wang, P.D. Chen, D.J. Liu, B. Friebe, and B.S. Gill

P09 Inheritance of Resistance to *Fusarium* Head Blight in Spring Wheat F-1 Hybrids
. Robert W. Stack and Richard C. Frohberg

P10 Inheritance of Scab Resistance in Sapporo Haru Komugi Jugo
Xiuling Zhang, Yue Jin, and Jackie Rudd

P11 Identification and characterization of special genetic stocks in Sumai 3-derived progenies
Han Zhao, Zhengqiang Ma, Yinhuai Zhao, Peidu Chen and Dajun Liu

P12 Pathogenesis of fusarium head blight on the common winter wheat varieties
I.B. Ablova and VG Ivaschenko

P13 *Fusarium* Head Blight Situation in Canada
George Fedak, and Wenguang Cao

P14 Expression of a wheat chitinase gene Wch2 in response to infection with *Fusarium graminearum*
Yong-Wang Zhong, Yu-Cai Liao, He-Ping Li, Chun-Sen Zhao and Bo Qu

P15 Activation of the Defensive Responses to Biotic and Abiotic Factors in Winter WheatV.G. Adamovskaya, N.A. Litvinenko, O.O. Molodchenkova, E.A. Klechkovskaya, Yu.A. Levitsky, L.Yo. Cyselskaya

P16 Cell wall protein and its function in wheat scab resistance
Shi JianRong, Michael Brownleader, Chen HuaiGu, Lin Ling, Wang Yu Zhong, Wang JinSheng

P17 Plant Residue Management in the Control of *Fusarium* Head Blight
Robert Todd, Robert Stack, Edward Deibert & John Enz

P18 Control of Fusarium scab on the winter wheat
Vasily Chaban, Tatiana Kislykh, Sergey Voloshchuk

P19 Predicting Fusarium head scab (Fusarium graminearum Schwabe) in winter wheat using near realtime weather.
A.W. Schaafsma, D. Hooker, L. Tamburic, and J. Winter

P20 Studies on the Breeding for Transgressive Resistance to Scab in Wheat
Liu Siheng, Wu Shengxin, Li Shiming, Huang biguan, Fang Yimin, Xiao biyu, Xu Wenzhen

P21 Field Identification of Wheat Scab Resistance and its Application in Breeding Practice
Fang Yimin, Zhu Han, Zhang Yaowang, Xu Wenzhen

P22 Quantify resistance test for wheat FHB based on the ability of germinating seeds to tolerate Fusarium toxin Deoxynivalenol (DON)
X Y Liang and T W Hollins

P23 Screening for Scab Resistance of Wheat in the Greenhouse
C.C. Hu, R. Dill-Macky, J.A. Anderson, R.H. Busch

P24 Artificial inoculation tests for assessing scab resistance of winter wheat to Fusarium graminearum Schwabe
Li J. Z. Nishio N. Iriki K. Takata and T. Kuwabara