

**I4TH INTERNATIONAL
ASPARAGUS
SYMPOSIUM
POTSDAM**

Potsdam, Germany 03-06.9.2017

Program

SUNDAY 03 September 2017

Restaurant Genusswerkstatt, Breite Straße 1A, 14467 Potsdam

Time	Activity
16:30 - 19:30	Registration
17:00 - 21:00	Welcome reception

MONDAY 04 September 2017

University Potsdam - Campus Golm - Building 27, Karl-Liebknecht-Straße 24, 14476 Potsdam

Time	Activity	
08:30	Start registration	
	Opening and welcome addresses	
09:00 - 09:30	Eckhard George Leibniz Institute of Vegetable and Ornamental Crops, Director of Research	
	Robert Seckler University of Potsdam, Vice-President for Research and Young Scientists	
	Axel Gaertner Ministry of Rural Development, Environment and Agriculture of the Federal State of Brandenburg	
	Ferdinando Branca University of Catania, Chair of the ISHS section: Vegetables, Roots, Tubers, Edible Bulbs, Brassica, Asparagus	
09:30 - 10:10	Plenary lecture by Mikolaj Knaflewski: "Research on asparagus and its application into practice - a 50 years overview"	
10:10 - 10:40	Coffee break	
Session I: Breeding and cultivars Chair: Agostino Falavigna		
10:40 - 11:30	Keynote lecture by Ulrike Lohwasser: "Plant Genetic Resources of Asparagus– Maintenance, Taxonomy and Availability"	
11:30 - 12:45	Evelyn Klocke	Somatic hybridization between <i>Asparagus officinalis</i> and <i>A. amarus</i>
	Susann Plath	Breeding programs to transmit Asparagus virus 1 resistance
	Yu Haihong	New asparagus cultivars suitable for outdoor cultivation in Hokkaido, Japan
12:45 - 14:15	Lunch and coffee break	

Session II: Genetics Chair: David Wolyn		
14:15 - 16:20	Keynote lecture by James Leebens-Mack: “The Garden Asparagus (<i>Asparagus officinalis</i> L.) Genome Sequence Sheds Light on the Origin and Early Evolution of Sex Chromosomes”	
	Alex Harkess	Assemblies of the garden asparagus X and Y reveal early patterns of non-recombination and divergence
	Neil Stone	A new robust codominant sex-linked STS marker for asparagus
	Adélaïde Salvado	Exploiting the supermale genotypes x environment interactions for breeding early all-male asparagus varieties
16:20 - 16:30	Photo session with all participants in front of building 27	
16:30 - 19:30	City tour	

TUESDAY 05 September 2017

Session III: Physiology, agronomy and field research Chair: Dan Drost		
8:30 - 11:00	Keynote lecture David Wolyn: “Adaptation of Asparagus to Overwinter in Cold Climates”	
	Tino Mutiarawati Onggo	Cultivation of asparagus as annual crop in the tropics: Growth, spear yield and quality of two cultivars harvested at different plant age
	Atsuko Uragami	Contribution of total N content in storage roots in a multiple regression analysis of asparagus yield after using the rootstock-planting forcing culture technique
	Joachim Ziegler	Optimization of harvest period and quality control by permanent online soil temperature control in German asparagus cultivation
	Jan Graefe	Monitoring and modelling of water, carbon dioxide and heat fluxes from asparagus fields
11:00 - 11:30	Coffee break	

11:30 - 13:10	Andres V. Casas Diaz	Nitrogen, phosphorus and potassium levels in asparagus production
	Daniel Brainard	Irrigation improves yield and quality of Guelph Millennium asparagus in Michigan
	Jana Zinkernagel	Do we need cultivar-specific irrigation scheduling?
	Wenjing Chen	Effect of temperature on growth of roots of juvenile asparagus (<i>Asparagus officinalis</i> L.) plants
13:10 - 14:10	Lunch	
14:10 - 15:10	Poster session	
15:10 - 15:40	Coffee break	
Session IV: Pathology and Replant Problems Chair: Andres Casas		
15:40 - 18:10	Keynote lecture by Wade H. Elmer: "Asparagus decline and replant problem: A look back and a look forward at strategies for mitigating losses"	
	Mary Hausbeck	Virulence of <i>Phytophthora asparagi</i> , susceptibility of asparagus cultigens to spear and root rot, and the efficacy of seed treatments
	Ludger Aldenhoff	Use of additives and asparagus varieties to reduce problems with replanting
	Mary Ruth McDonald	Management of Stemphylium leaf spot (<i>Stemphylium vesicarium</i>) and rust (<i>Puccinia asparagi</i>) of asparagus (<i>Asparagus officinalis</i>) with cultivar selection and fungicides
	Edit Lantos	Effect of Asparagus virus 1 (AV-1) on yield and quality components
18:30	Shuttle to conference dinner	
19:00 - 22:00	Conference dinner	

WEDNESDAY 06 September 2017

<p align="center">Session V: Mechanization and post-harvest processing</p> <p align="center">Chair: Werner B. Herppich</p>		
<p>8:30 - 11:00</p>	<p>Keynote lecture by <i>Martin Geyer</i>: “Mechanization of white asparagus harvest – overview and perspectives”</p>	
	Joanna Niziolomski	Managing runoff and soil loss in asparagus production systems
	Karin Hassenberg	Efficiency of emerging postharvest sanitation treatments for microbial safety of white asparagus
	Wambrauw Daniel	Effect of light on the quality of asparagus spear and the gene expression of flavonoid biosynthetic genes cultivated by winter ‘fusekomi’ forcing culture
	Roberta Tosetti	Effects of ultra-low O ₂ controlled atmosphere on spear quality in British-grown asparagus during storage
<p>11:00 - 11:30</p>	<p>Coffee break</p>	
<p align="center">Chair: Chen Guangyu</p>		
<p>11:30 - 12:45</p>	Emma Collings	Temporal changes in physiology and biochemical profile during storage of two UK-grown asparagus cultivars with different chilling unit requirements
	Corinna Dawid	Molecularization of Sensory Active Compounds in Asparagus (<i>Asparagus officinalis</i> L.)
	Werner B. Herppich	Impact of light quality on enzyme mediated lignification processes in white asparagus spears
<p>12:45 - 13:45</p>	<p>Lunch</p>	
<p>13:45 - 14:30</p>	<p>General discussion, concluding remarks, awards</p>	
<p>14:30 - 15:00</p>	<p>Coffee break</p>	
<p>14:50 - 15:20</p>	<p>ISHS business meeting</p>	
<p>15:30</p>	<p>Start of post conference tour</p>	

List of poster contributions

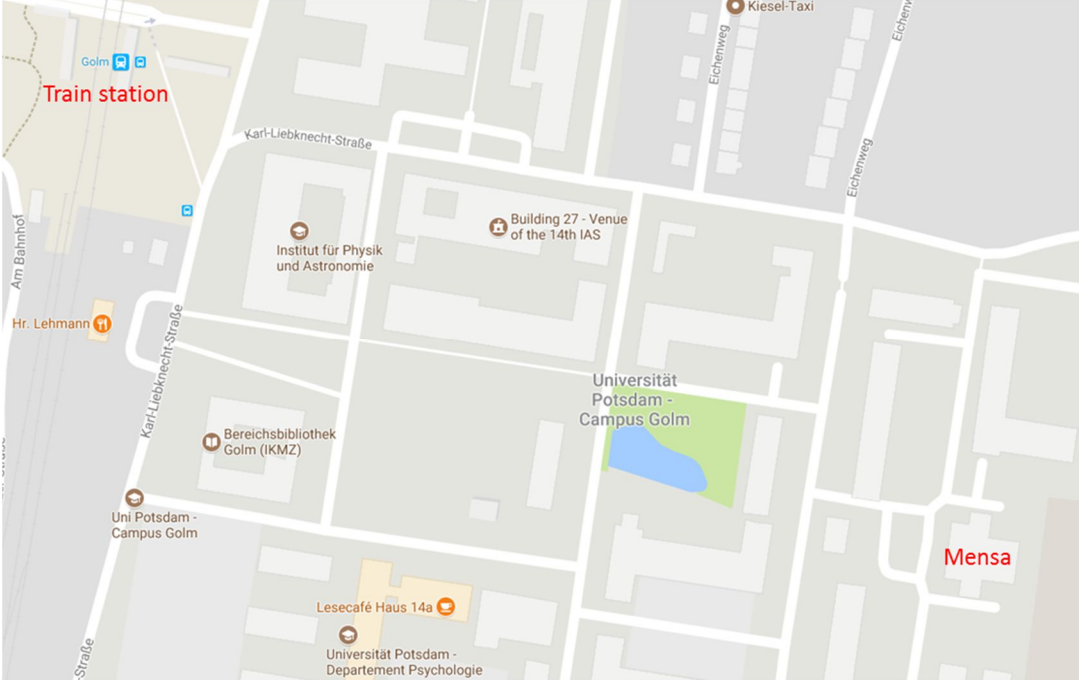
Group-ID	Broad meaning	Range
D	Diseases	D1...D4
F	Field studies	F1...F17
G	Genomics	G1...G7
P	Postharvest	P1...P9

Group	Title	Authors
D01	Reaction of 10 Asparagus cultivars to invested soil with <i>Fusarium oxysporum f.sp. asparagi</i> and <i>Meloidogyne incognita</i>	Walter Apaza, Angela Talledo, Andres Casas
D02	Evaluation of tolerance to <i>Phytophthora</i> rot in <i>Asparagus officinalis</i> cultivars using a novel inoculation method	Takahiro Sonoda, Fujio Kodama
D03	Development of <i>Brachycorynella asparagi</i> (Mordv.) on selected asparagus (<i>Asparagus officinalis</i> L.) cultivars under controlled conditions	Wenjing Chen, Beata Borowiak-Sobkowiak, Włodzimierz Krzesinski
D04	Growth inhibitory activity of different asparagus materials and effectiveness of active carbon at reducing inhibition	Tenri Tou, Satoru Motoki
F01	Labor saving yield estimation method can estimate asparagus spear yields grown using a new field cultivation method	Keiko Tsuda, Kuninori Matsunaga, Satoru Motoki
F02	The effect of different AMF inoculated-seedlings on the growth, yield and nutrient quality of Asparagus after transplanting in plastic greenhouse	Chaoxing He, Yansu Li, Xianchang Yu
F03	Development of New Harvest Production System for Asparagus (Whole Harvest Cultivation Method of One-year-old Plants)	Takumi Taguchi, Satoru Motoki, Yuki Kabuno, Kuninori Matsunaga
F04	Field design for optimal water management	Joanna Niziolowski, Robert Simmons
F05	Effect of incubation temperature on asparagus crown sprouting and abscisic acid content	Machiko Fukuda, Satoshi Matsuo, Shinichi Watanabe, Atsuko Uragami
F06	Commercial Productivity in the Fourth International Asparagus Cultivar Trial at Azul, Argentina [2016]	Ana María Castagnino, Karina E. Díaz, William John Rogers, María Belén Tarantino, Javier A. Marina
F07	Productivity and calibre distribution of three green asparagus hybrids in the Province of San Luis, Argentina, in their sixth production year (2015)	Ana María Castagnino, Patricia Lía Bazán, Marina Martinez, María Belén Funes, Karina E. Díaz, Nora Martinez, Sabrina Mondini, William John Rogers
F08	Cold Acclimation and Spring Regrowth of Asparagus (<i>Asparagus officinalis</i>) in Southern Ontario after Autumn Defoliation	Nicholas Nolet, David Wolyn

F09	Comparison of spear yield and quality between male and female asparagus plants in protected mother-fern culture	Shinichi Watanabe, Masanori Matsuo
F10	Yield evaluation of some asparagus (<i>Asparagus officinalis</i> L.) cultivars and breeding lines in Zhejiang, China	Wenjing Chen, Huijuan Qi, Xujuan Zhang, Jianjun Shi, Weiyao Shi
F11	Characterization of macro and micro nutrient deficiency symptoms in asparagus (<i>Asparagus officinalis</i>)	Carmen Feller, Anja Müller
F12	The content of reserve carbohydrates in the rhizome of asparagus (<i>Asparagus officinalis</i>) as a function of progressing dormancy of fern	Carmen Feller, Anja Müller
F13	Agronomic results of two asparagus production systems in southern Spain in their first year of cultivation	Pedro Cermeño Sacristán, María José Romero Solís
F14	New planting frames in the asparagus growing in southern Spain	Pedro Cermeño Sacristán, María José Romero Solís
F15	Nitrogen Management Improves Organic Asparagus Growth and Productivity	Daniel Drost, Kristiane Pedersen
F16	Sustainable soil management for stand longevity and yield optimization	Joanna Niziolomski
F17	Effect of different pot size and growing medium on Asparagus (<i>Asparagus officinalis</i> L.) seedling quality	Ozlem Akan, Emre Eren
G01	Integrated metabolomics for the biosynthesis of asparaptine in <i>Asparagus officinalis</i>	Ryo Nakabayashi, Amit Rai, Kei Hashimoto, Tetsuya Mori, Tomoko Nishizawa, Hiroshi Sudo, Kiminori Toyooka, Hideyuki Suzuki, Kazuki Sait
G02	Update on the asparagus breeding program at the University of California, Riverside	Neil Stone, Zachary Thomas, Mikeal Roose
G03	Attempts of genetic transformation in <i>Asparagus Officinalis</i>	Giuseppe Leonardo Rotino, Tea Sala, Alessia Losa, Luisa Ferrari, Pier Emilio Casali, Bruno Campion, Massimo Schiavi
G04	Assessment of genetic diversity in Iranian Asparagus spp related to garden asparagus	Juan Gil, Seyyed Javad Mousavizadeh, Mohammad Reza Hassandokht, Teresa Millan, Roberto Moreno
G05	Introgression of wild relative Asparagus spp. germplasm into garden asparagus	Roberto Moreno Pinel, Lourdes Amián Sánchez, Josefa Rubio Moreno, Patricia Castro López, Juan Gil Ligeró

G06	Comparative analysis of de novo transcriptome profiling of <i>Asparagus officinalis</i> and <i>A. kiusianus</i> during the early phase of <i>Phomopsis asparagi</i> infection	Akira Kanno, Mostafa Abdelrahman, Naoyuki Suzumura, Mai Mitoma, Satoshi Matsuo, Takao Ikeuchi, Mitsutaka Mori, Kyoko Murakami, Yukio Ozaki, Masaru Matsumoto, Atsuko Uragami
G07	Genotyping-by-sequencing and its application to asparagus breeding program	Gurleen Sidhu, David Wolyn
P01	Potential effects of emerging postharvest sanitation treatments on physiological and nutritional quality of white asparagus	Werner B. Herppich, Susanne Huyskens-Keil, Karin Hassenberg
P02	Impact of light quality on enzyme mediated lignification processes in white asparagus spears	Werner B. Herppich, Susanne Huyskens-Keil
P03	Lignification and discoloration - competitive sinks for phenolic substances of white asparagus spears (<i>Asparagus officinalis</i> L.)	Werner B. Herppich, Susanne Huyskens-Keil, Karin Hassenberg
P04	Effects of long-term submerging on postharvest quality of white asparagus spears	Werner B. Herppich
P05	Study of Aqueous Extracts of Asparagus on Sleep Meliorating effect	Yun Xiang Huang
P06	Comparing the Bioactive Compounds, Anticancer Compounds, and Anti-obesity Effect of Four Asparagus Cultivars (<i>Asparagus officinalis</i> L.)	Yang Gyu Ku, Dong Hyun Kang, Chan Seok Ryu, Dong Eok Kim, Nam Il Park, Young Rok Yeoung, Jong Hyang Bae
P07	Reducing pink discoloration of white asparagus	Ans De Roeck, Ann Schenk, Bart Nicolai, Liesbeth Wachters
P08	The creation for asparagus on deeply procession, detection and the tracement of risk assessment system	Chang Sheng Zhou
P09	Critical points during post-harvest handling	Bernhard Brueckner, Martin Geyer, Jelena Surdilovic

Campus Golm with indicated locations of the Mensa and the train station



Potsdam main train station (Potsdam Hbf) with intermediate bus stop at post-tour start

