



Sino-German Symposium on Integrated Management of *Drosophila suzukii*

Julius Kühn-Institut, Darmstadt/Dossenheim
26.06. – 01.07. 2017

Programme

Monday, 26th June 2017 (travel day)

The participants are expected to arrive at the workshop venue (Darmstadt) during Monday afternoon.

19:30 Welcome Dinner at Restaurant "Braustübl", Goebelstraße 7, Darmstadt

Tuesday, 27th June 2017: Workshop

JKI, Institute for Biological Control, Heinrichstr. 243, Darmstadt

08:15-08:45 Registration of the participants

Opening remarks (Chair: ANNETTE HERZ, 08:45-09:00)

Prof. Dr. JOHANNES JEHL, Director, Institute for Biological Control - Julius Kühn-Institut

Prof. Dr. YANG PUYUN, Director of the Division of Crop Pest Control, National Agro-technical Extension and Service Center, Ministry of Agriculture. P. R. China.

Scientific session 1: Current pest status of *D. suzukii* (Chair: Prof. Dr. YANG PUYUN, 09:00-10:20)

09:00-09:20 HEIDRUN VOGT: New insights into the ecology of *D. suzukii* in Germany and its pest status in fruit crops

09:20-09:40 MICHAEL BREUER: *D. suzukii* as pest in vineyards: how serious is the risk?

09:40-10:00 YU YI, Infestation status of Spotted wing drosophila (SWD), *D. suzukii*, in China

10:00-10:20 CHRISTOPH HOFFMANN: *D. suzukii* in German viticulture – Pest or Legend?

10:20-10:50 Tea/coffee break



Scientific session 2: Basic biology and chemical ecology of *D. suzukii* (Chair: Dr. ZHANG FENG, 10:30-12:30)

- 10:50-11:10 IAN KEESEY: Using *Drosophila suzukii* as a comparative model for studying olfactory evolution
- 11:10-11:30 DONG WENXIA: The attractivity of bayberry fruit volatiles to vinegar fruit fly
- 11:30-11:50 ASTRID EBEN: New approaches to apply plant compounds in control strategies
- 11:50-12:10 ZHENG LI: Behavioural rhythms of *Drosophila suzukii* and *Drosophila melanogaster*
- 12:10-12:30 GAO HUANHUAN: Impact of selected fungus species from food on the growth and development of *Drosophila suzukii*
- 12:30-13:30 *Lunch break*

Scientific session 3: Ecology of *D. suzukii* in the area of origin and invasion& risk analysis (Chair: Dr. HEIDRUN VOGT 13:30-15:50)

- 13:30-13:50 ZHAI YIFAN: Adult reproductive diapause in *Drosophila suzukii* females
- 13:50-14:10 FELIX BRIEM: Developing a new molecular approach to analyze the diet of *D. suzukii*
- 14:10-14:30 LIU LIJUN: The potential geographical distribution of *D. suzukii* based on MaxEnt
- 14:30-14:50 BURKHARD GOLLA: Landscape effects on *D. suzukii* dispersal and migration.
- 14:50-15:10 ZHANG JINPING: Ecological adaptation of *D. suzukii* in northern China
- 15:10-15:30 BENNO KLEINHENZ: SIMKEF- Development of a DSS for *D. suzukii*
- 15:30-15:50 DONG YONGCHENG: The occurrence and management of *D. suzukii* in Hubei province
- 15:50-16:20 *Tea/coffee break*

Scientific session 4: Natural enemies and perspectives for biocontrol (Chair: Prof. JOHANNES JEHL, 16:20-18:00)

- 16:20-16:40 TIM HAYE, Assessment of mortality factors for *D. suzukii* in Switzerland
- 16:40-17:00 CHEN GUOHUA, Natural enemies of *D. suzukii* in Yunnan province
- 17:00-17:20 CAMILLA ENGLERT/ EVA DUMATH/ANNETTE HERZ: Prospects for biocontrol of *D. suzukii* by invertebrates in Germany
- 17:20-17:40 ZHANG FENG, Potential classical biocontrol of *D. suzukii* with parasitoids from China
- 17:40-18:00 SARAH BIGANSKI/REGINA KLEESPIES: Pathogens to control *D. suzukii*



18:00-18:15 Conclusion of the first day (HEIDRUN VOGT, ANNETTE HERZ/ YANG PUYUN, ZHAI YIFAN)

18:15-19:00 *Back to Hotel, alternatively visiting the labs of JKI*

19:00-19:30 *For those who want: Walk to Restaurant via "Mathildenhöhe" -
<http://www.mathildenhoehe.eu/information-en-us/contact/>*

19:30 *Dinner at Restaurant "Sitte", Karlstraße 15, Darmstadt*

Wednesday, 28th June 2017: : Workshop

JKI, Institute for Biological Control, Heinrichstr. 243, Darmstadt

Scientific session 5: Current IPM and novel approaches to control *D. suzukii*, (Chair: Dr. HEIDRUN VOGT 08:45-10:30)

08:45-09:30 CLAUDIO IORIATTI: Current status of the *Drosophila suzukii* management in Trentino (Italy), research achievements and perspectives for sustainable control

09:30-09:50 YANG PUYUN, Integrated pest management strategy for fruit flies in China

09:50-10:10 KIRSTEN KÖPPLER: Control strategies for *D. suzukii* management in Germany

10:10-10:30 LI PING: Field demonstration of control techniques to manage *D. suzukii* in China

10:30-11:00 *Tea/coffee break*

Scientific session 5 (ctd.), (Chair: Dr. ZHAI YIFAN 10:30-12:40)

11:00-11:20 SANDRA NITSCH: Applied IPM for *Drosophila suzukii* in Germany

11:20-11:40 JOHANNAPINGGERA: Evaluation of soft fruit genetic resources for resistance to *D. suzukii*

11:40-12:00 ANNETTE REINEKE: Natural compounds and their effect on *D. suzukii*

12:00-12:20 MARC F. SCHETELIG: Sterile Insect technique for *D. suzukii*

12:20-12:40 WOLFGANG JARAUSCH: Low temperature survival of German populations of *D. suzukii* in relation to food availability and Wolbachia infection

12:40-13:40 *Lunch*



Prospects for Future cooperation (Chair: Dr. ANNETTE HERZ 13:40 – 15:00)

13:40-13:55 Entofilm-Movie on *Drosophila suzukii* and some parasitoids, presented by
JANA COLLATZ

13:55-14:15 MARCO ROELCKE: Introduction to the Sino-German Agricultural Science and
Technology Cooperation Platform

14:15 -15:15 Table work: split into 5 groups with 6-8 participants and work on suggested
questions of the scientific sessions (basic biology, landscape ecology,
Biocontrol, Current IPM, novel approaches)

15:15-15:45 Tea/coffee break

15:45-16:45 Summary of table work (10 min for each group): research needs identified

16:45-17:00 **Final discussion and concluding remarks (HEIDRUN VOGT/ YANG PUYUN)**

17:15 *Trip to Rossdorf, village near Darmstadt (several groups in Institute's cars)*

17:45- 21:00 *Walk to vineyard (30 min) and Dinner*

21:00- 21:30 *Back to Darmstadt (Taxi)*

Thursday, 29th June 2017: : Workshop

JKI, Institute for Plant Protection in Fruit Crops and Viticulture, Dossenheim

08:15 Meeting Point Intercity Hotel Darmstadt

08:30 Bus at Darmstadt Main Station

09:30-10:00 Welcome, Prof. Dr. WILHELM JELKMAN, Director, Institute for Plant Protection
in Fruit Crops - Julius Kühn-Institut

10:10-12:30 Round table discussion:

Joint conclusion of the workshop

Drafting the proposal for future cooperation

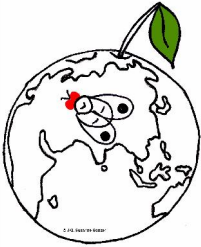
12:30-13:30 *Lunch*

13:30-15:00 Bus transfer to LTZ Augustenberg and visiting SWD infested orchards
between Dossenheim and Karlsruhe

15:00- 18:00 Visit of LTZ Augustenberg, Neßlerstraße 25, Karlsruhe, presented by
Dr. KIRSTEN KÖPPLER

18:00 -19:00 Bus transfer to Hotel Gaisbacherhof, Oberkirch

20:00 *Dinner at Hotel Gaisbacherhof, Oberkirch*



Friday, 30th June 2017: Excursion (Detailed programme will follow)

- 08:15 Departure from Hotel Gaisbacher Hof
08:30-09:30 Central fruit market (OGM): presentation
09:30-12:30 Excursion to fruit orchards in the Ortenau region.
Discussion and summary on further cooperation
12:30-14:00 *Lunch*
14:00-18:00 Driving back to Darmstadt to Intercity Hotel

19:00 *Participants of the Symposium have free time to visit the “Heiner Fest” in Darmstadt City Centre*

Saturday/Sunday, 1st / 2nd July 2017(travel day)

Return flights (i.e. CA932 SA01JUL FRAPEK HK11 20:15 from Frankfurt to Beijing on 2nd July