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IFW 2026

INSECTS TO FEED THE WORLD

TORINO
ITALY

9-12 June
2026

Lingotto Conference Centre
Via Nizza, 280

PROGRAMME

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Organization

Institutional Partners

City of Torino
University of Torino (UNITO)
Department of Agricultural, Forest and Food Sciences, University of Torino (DISAFA)
Department of Veterinary Sciences, University of Torino (DSV)
International Platform of Insects as Food and Feed (IPIFF)
European Federation of Animal Sciences (EAAP)
Asian Food and Feed Insect Association (AFFIA)
National Research Council - Institute of Sciences of Food Production (ISPA)
National Veterinary Institute Piedmont, Liguria and Aosta Valley (IZSPLV)

Convenor

Laura Gasco (University of Torino)

The Scientific Committee

Committee President

Manuela Renna (University of Torino)

Committee members

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Karol Barragán-Fonseca, *Colombia*
Meghan Barrett, *USA*
Simone Belluco, *Italy*
Francesco Bordignon, *Italy*
Fulvia Bovera, *Italy*
Daniele Bruno, *Italy*
Maria Teresa Capucchio, *Italy*
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David Deruytter, *Belgium*
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Emilie Devic, *France*
Patrizia Falabella, *Italy*
Lotte Frooninckx, *Belgium*
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Committee Presidents

Sara Bellezza Oddon, Ilaria Biasato (University of Torino)

Committee members

Achille Schiavone, Rosemarie Tedeschi (University of Torino)
Francesco Gai, Cristina Lamberti (National Research Council - CNR)
Fulvia Bovera (University of Napoli Federico II)
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Simone Belluco (Istituto Zooprofilattico Sperimentale delle Venezie - IZSVe)

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Programme at a glance

	ROOM 500	ROOM LONDRA	ROOM MADRID	ROOM PARIGI	ROOM LISBONA	ROOM ATENE	
Monday, 8 June 2026							
15.00 - 17.00	*TECHNICAL TOUR*						15.00 - 17.00
16.00	**REGISTRATION OPENING**						16.00
18.00 - 20.00	**WELCOME RECEPTION**						18.00 - 20.00
Tuesday, 9 June 2026							
9.00 - 10.15	**OPENING CEREMONY**						9.00 - 10.15
10.15 - 10.45	*Coffee break*						10.15 - 10.45
10.45 - 12.30	**Session 01** Insects in Pigs, Rabbits, Dogs, and Ducks Feed	**Session 02** Biological Mechanisms and Safety in Black Soldier Fly Larvae Waste Bioconversion	**Session 03** Nutrient and Sensory Characteristics of Insect Foods	**Session 04** Insect Health and Welfare (I)	**Session 05** Insect Production, Engineering and Processing	**Session 06** Applications of Insect Frass and By-products (I)	10.45 - 12.30
12.30 - 13.30	*LUNCH*						12.30 - 13.30
13.30 - 15.30	**Panel** * Industry Session: a Structured High-signal Conversation across the Value Chain						13.30 - 15.30
15.30 - 16.00	*Coffee break*						15.30 - 16.00
16.00 - 18.00	**Session 07** Bioconversion and Insects in Aquafeed and Poultry Feed	**Session 08** Fly Larvae Bioconversion: Exploring Different Substrates	**Session 09** Insects Nutrition, Quality and Safety	**Session 10** Insect Health and Welfare (II)	**Session 11** Insect Processing (I)	**Session 12** Understanding Consumer Acceptance and Sensory Evaluation of Insects as Food	16.00 - 18.00
20.00 - 22.00	*DINE & DANCE ON THE BANK OF THE RIVER*						20.00 - 22.00
Wednesday, 10 June 2026							
8.30 - 10.15	**Panel** Opportunities for BSF Farming in Low and Middle Income Settings						8.30 - 10.15
10.15 - 10.45	*Coffee break*						10.15 - 10.45
10.45 - 12.30	**Panel** Opportunities for BSF Farming in Low and Middle Income Settings						10.45 - 12.30
12.30 - 13.30	*LUNCH*						12.30 - 13.30

* The **Business Matching Session** will take place in foyer nord after the Industry Session Panel

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	ROOM 500	ROOM LONDRA	ROOM MADRID	ROOM PARIGI	ROOM LISBONA	ROOM ATENE	
13.30 - 15.30	**Session 13** Insects in Ruminants and Poultry Feed	**Session 14** Sustainability Assessment and Agricultural Use of Insect Frass	**Session 15** Insects as Novel Foods: Product Development and Evaluation		**Session 16** Insect Genomes	**Session 17** Black Soldier Fly Production (I)	13.30 - 15.30
15.30 - 16.00	*Coffee break*				*Coffee break*		15.30 - 16.00
16.00 - 18.00	**Session 18** Insects in Aquafeed	**Session 19** Advances in Insect Bioconversion: Impact of Microbiomes and Process Optimisation	**Session 20** Host-Microbe Interactions			**Session 21** Insect Processing (II)	16.00 - 18.00
Thursday, 11 June 2026					**Thursday, 11 June 2026**		
8.30 - 10.15	**Session 22** Insects in Poultry Feed	**Session 23** Insect Biology and Health	**Session 24** Insect Bioconversion of Recalcitrant Substrates	**Session 25** Production of Mealworms and Other Insect Species	**Session 26** Safety and Sustainability of Insect-Derived Products	**Session 27** Developing the Insect Food Sector: Adoption, Commercialisation, and Industry Perspectives	8.30 - 10.15
10.15 - 10.45	*Coffee break*				*Coffee break*		10.15 - 10.45
10.45 - 12.30	**Session 28** Insects in Human Health	**Session 29** Insect Substrates	**Session 30** Optimising Substrates and Pre-Treatments for Black Soldier Fly Bioconversion	**Session 31** Insect Engineering	**Session 32** Applications of Insect Frass and By-Products (II)	**Session 33** From Producers to Consumer Perceptions: Insects as Feed	10.45 - 12.30
12.30 - 13.30	*LUNCH*	*ASIFF Annual Meeting* (only for ASIFF members)	*LUNCH*	*LUNCH*			12.30 - 13.30
13.30 - 15.30	**Panel** Communication Approaches to Insects as Food and Feed						13.30 - 15.30
15.30 - 16.00	*Coffee break*				*Coffee break*		15.30 - 16.00
16.00 - 18.00	**Session 34** Food Products Development	**Session 35** Insect Breeding	**Session 36** Impact of Substrate on Insect Bioconversion	**Session 37** Insect Production and Processing	**Session 38** Insect Biorefinery Applications	**Session 39** Scaling Insect Farming Systems and Regional Implementation	16.00 - 18.00
20.00 - 23.30	*SOCIAL DINNER*				*SOCIAL DINNER*		20.00 - 23.30
Friday, 12 June 2026					**Friday, 12 June 2026**		
8.30 - 10.15	**Session 40** Insects in Health and Adoption	**Session 41** Evidence from Practice: Regulatory, Economic and Project-Based Insights	**Session 42** Black Soldier Fly Production (II)		**Session 43** Governance, Economics and Emerging Applications in Insect Systems	**Session 44** Insect Genetics, Physiology, Health and Welfare	8.30 - 10.15
10.30 - 11.00	*Coffee break*				*Coffee break*		10.30 - 11.00
11.00 - 12.30	CLOSING CEREMONY						11.00 - 12.30
14.00 - 16.00	*TECHNICAL TOUR*				*TECHNICAL TOUR*		14.00 - 16.00

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Scientific Programme

Monday, 8 June 2026

Centro Congressi Lingotto

16:00 Registration opening

18:00 **Welcome cocktail**

Tuesday, 9 June 2026

Room 500

9:00 **Opening Ceremony**

Keynote Lecture

Insect Health and Disease: Focusing on the Microbiome.
Florencia Meyer

10:15 *Coffee break*

Session 01

Insects in Pigs, Rabbits, Dogs, and Ducks Feed
Chairs: I. Biasato, T. Veldkamp

11:15 Effects of black soldier fly larvae as dietary protein source on growth performance and gut health in weaned piglets.
T. Veldkamp, P. G. Van Wikselaar, G. Binnendijk, A. J. M. Jansman

11:30 Live black soldier fly larvae in the diet of suckling piglets increases their pre-weaning voluntary feed intake.
N. S. Stoehr, T. Stiem, J. Stracke, R. Jha, G. Dusel

11:45 Nutrient digestibility of feedstuffs derived from *Tenebrio molitor* in pigs.
J. W. Kluess, M. Kölln, S. Dänicke, P. Sudwischez, M. Hellwig, J. Heidhues, D. Sindermann, S. Wildförster, F. Tometten, W. Sitzmann, A. Grümpel-Schlüter

12:00 Black soldier fly oil as a lipid source in guinea pig diets: effects on growth, health markers, and consumer acceptance.
S. Y. Chia, L. K. Wamai, B. O. OcHieng, D. Beesigamukama, C. M. Tanga

12:15 How does *Tenebrio molitor* affect gut microflora homeostasis in dogs?
R. Gałęcki, A. Nowak, J. Szulc

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12:30 Impact of live insect larvae on welfare indicators and meat traits in Muscovy ducks.
M. Gariglio, E. Fiorilla, A. Trocino, A. Brugiapaglia, S. Bergagna, J. Mota Gutierrez, A. Schiavone

13:00 *Lunch*

Room Londra

Session 02

Biological Mechanisms and Safety in Black Soldier Fly Larvae Waste Bioconversion
Chairs: J. De Smet, F. Meyer

11:15 Host-dominant degradation of sulfonamides in black soldier fly larvae mediated by Cyp4d14.
C. Sun, M. Cai, J. Zhang

11:30 Safety assessment of black soldier fly larvae reared on non-permitted substrates.
K. Niermans, N. Meijer, S. Naser El Deen, T. Veldkamp, C. J. De Vos-De Jong, M. J. Appel, E. F. Hoek-Van Den

11:45 Gut immune responses in black soldier fly larvae: the role of the gut microbiota to prime pathogen resistance.
M. Marzari, N. Sibinga, D. Bruno, M. Van Der Borght, G. Tettamanti, J. De Smet

12:00 Mitigating antimicrobial resistance transmission in manure via black soldier fly larvae-microbe synergistic conversion.
M. Cai

12:15 From soil to water: agronomic performance and environmental safety of black soldier fly frass as a sustainable fertiliser.
D. N. Cardoso, A. Rodrigues, I. Cruz, J. Pinto, A. Mostafaie, C. Malheiro, A. R. Silva, I. G. Lopes, G. Pinto, P. Monteiro, C. Souza, S. Loureiro

12:30 Synthesising the evidence on Salmonella spp. inactivation in black soldier fly larvae bioconversion of biowastes.
C. Lalander, E. Were and I. Guidini Lopes

12:45 $CaCO_3$ in shrimp residue inhibits bioconversion and development of black soldier fly (*Hermetia illucens*, Linnaeus, 1758).
A. Thompson De La Chenelière, M. P. Rivera Rodriguez, L. Lapierre, V. Banville, M. Lapierre, G. W. Vandenberg, M. H. Deschamps

13:00 *Lunch*

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Room Madrid

Session 03
Nutrient and Sensory Characteristics of Insect Foods

Chairs: D. Allan, N. Roos

11:15 Looking beyond nutrients: NMR metabolomics on edible insects for a further understanding of their chemical profile.
M. Spano

11:30 Nutritional, antioxidant, and sensory acceptability in wheat biscuits fortified with black soldier fly and mopane worm.
V. V. Mshayisa, N. Vanqa, J. Kinyuru

11:45 Multivariate evaluation of nutritional, techno-functional, and structural properties of wheat-mopane worm composites.
V. V. Mshayisa, T. A. Nkosi, N. Dlelanga, K. S. Matladi, L. Mayekiso

12:00 Protein/peptide bioaccessibility and bioactivity of five traditional edible insects from Mexico after INFOGEST digestion.
O. A. Sanchez-Velazquez, L. C. Acevez-Mares, A. J. Hernandez-Alvarez

12:15 Nutritional and physicochemical characterization of *Tenebrio molitor* and *Hermetia illucens* larvae and flours.
J. Dhaouafi, C. Turchiuli, R. Karoui, C. Jablaoui, H. Romdhana, S. Mezdour

12:30 Nutritional characterization of 30 insect species for their potential as food or feed.
B. Gautam, S. Tiwari, P. Khanal

12:45 Refining protein quantification in mealworm and cricket meals: impact of processing on Kp and KA factors.
G. Pellerin, A. Doyen

13:00 Lunch

Room Parigi

Session 04
Insect Health and Welfare (I)

Chairs: C. Picard, D. Bruno

11:15 Scientific declaration on insect sentience and welfare.
F. Maugère

11:30 Operational drivers and management of a disease event in industrial *Hermetia illucens* rearing systems.
C. Warburton, C. Bolduc

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11:45 Feeding adult black soldier flies their preferred foods increases mating activity, egg output, and longevity.
M. Barrett, K. Fiocca, E. A. Waddell

12:00 Breaking the mortality taboo: case report of a pathogen outbreak from an industrial black soldier fly larvae producer.
J. B. Guillaume, C. Trublin, E. Chardin, L. Bridoux, C. Buisson, A. Bolotin, V. Sanchis-Borja, C. Nielsen-Leroux, P. Lhomme

12:15 Histopathology studies in black soldier fly larvae (BSFL) morbidity and mortality cultured in a laboratory sized colony.
S. Pyecroft

12:30 Research on the epidemiology and pathogenic mechanism of black soldier fly 'soft rot' disease.
Q. Xiao, L. Y. Zheng

12:45 Viral and bacterial pathogens associated with black soldier fly larval mortality in a French production facility.
C. Wybraniec, V. Wallart, J. B. Guillaume, P. Lhomme, C. Savio, A. Bolotin, C. Nielsen-Leroux, V. Sanchis-Borja, S. Boyer, E. Herniou

13:00 Lunch

Room Lisbona

Session 05
Insect Production, Engineering and Processing

Chairs: E. Devic, A. Resconi

11:15 Induced growth suspension for enhanced logistics in black soldier fly production: Industrial validation of the StayPrime.
A. Gligorescu

11:30 Controlling black soldier fly adult emergence via low-temperature storage.
M. B. Ala Eddine, L. I. MacAvei, T. B. Barber, G. Benassi, S. Dabbou

11:45 Effects of dietary energy and protein levels on growth performance and chemical composition of *Tenebrio molitor* larvae.
M. Vukadinović, M. Polovinski Horvatović, M. Petrović, M. Ivković, B. Iličić, K. Nikolić, D. Beuković, S. Krstović

12:00 Techno-economic model of insect farming: viable scenarios and trade-offs.
L. Wein, J. Lean

12:15 Industry shakeout: risk signal or normal maturation phase?
B. Holtermans

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12:30 What's good enough? Bioconversion heuristics model based on mass balance and cost-benefit analysis.
L. Wein, R. Steven

13:00 *Lunch*

Room Atene

Session 06

Applications of Insect Frass and By-products (I)

Chairs: D. Deruytter, M. H. Deschamps

11:15 Black soldier fly frass: biofertilizer, biostimulant, elicitor or all of the above?
M. Gebiola, W. Samson, M. R. Chianese, D. Bruno, C. Pane, I. Di Lelio, E. Poelman, K. Mauck, F. Pennacchio

11:30 Effect of fertilization using frass on the phytochemical profile and bioactivity of Italian rapini.
F. Gai, M. D'Imperio, G. Di Cuia, A. Parente, V. Napolitano, M. Karamac, K. Sulewska, F. Romaniello, A. Rossi, A. Vornoli, L. Pozzo

11:45 The influence of frass on the metabolite profile of tomatoes.
K. Sebelova, O. Pospisil, S. Syrovatkova, V. Schulzova, P. Kourimsky, M. Manasova, L. Kourimska, J. Hajslova

12:00 The effects and microbial mechanism of black soldier fly frass application on tomato wilt disease suppression.
J. Qi, L. Wang, X. P. Kong, J. Du, X. M. Ye

12:15 Comparision of black soldier fly frass and mineral fertilizer on phosphorus uptake and maize performance.
I. Rubagumya, D. A. Peguero, F. Lwiza, S. S. Kizito, C. Zurbrügegg, A. J. Komakech, F. Mnthambala

12:30 Insect frass as an organic fertilizer and biostimulant in potato production: results from on-farm field trials.
S. Ulrich, M. Gold, M. Zorrilla, K. Bohm

12:45 Optimized application of insect frass enhances maize performance and soil fertility under alkaline soil conditions.
B. Ahbare, A. El Yaacoubi, L. Gasco, D. Touhami

13:00 *Lunch*

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Room 500

13:30 **Panel**

Industry Session - A Structured High-signal Conversation across the Value Chain

15:30 *Coffee break*

Session 07

Bioconversion and Insects in Aquafeed and Poultry Feed

Chairs: G. Secci, G. Vanderberg

16:00 Fermentation metabolite dynamics during black soldier fly larval rearing.
R . F. Calderon Barrientos, M. Gold, M. J. Zorrilla

16:15 Insects can bioaccumulate phytochemicals from olive oil by-products.
V. Da Cunha-Borges, E. Rodríguez-González, E. Cantero-Bahillo, D. Villanueva-Bermejo, M. R. García-Risco, D. Martin

16:30 In vitro assessment of immunomodulatory and antimicrobial mechanisms of black soldier fly larvae derivatives.
M. Bezagu, A. Maurice, L. Donati, M. Walraven, G. Chêne, K. MacDonald, T. Shapira

16:45 Productive and physiological responses of the neotropical fish *Piaractus brachypomus* fed black soldier fly larval meal.
E. M. Menjura-Rojas, M. A. Landines-Parra, H. A. Arévalo-Arévalo, A. P. Muñoz-Ramírez K. Barragán-Fonseca

17:00 Valorisation of by-products via *Tenebrio molitor* bioconversion for sustainable aquafeeds development.
P. Ramírez-Rubio, D. Amaral, S. Hilali, A. H. L. Wan, T. Cavalheri, G. Campos, E. Stierlin, H. Peres, R. O. A. Ozorio, S. De Diego

17:15 Metagenomic insights into gut microbiota modulation by black soldier fly larvae in three Australian aquaculture species.
A. Barca

17:30 Assessing the digestibility of home-made insect meals as feed ingredients for rainbow trout (*Oncorhynchus mykiss*).
Z. Loiotine, K. Loufi, S. Bellezza Oddon, D. P. Bureau, J. Bacenetti, F. Gai, L. Gasco, I. Biasato

17:45 Can we replace soya oil in broiler diets with *Tenebrio molitor* larvae oil?
M. Kölln, A. Grümpel-Schlüter, S. Dänicke, P. Sudwischer, M. Hellwig, J. Heidhues, D. Sindermann, S. Wildförster, F. Tometten, W. Sitzmann,J. W. Kluess

Room Londra

Session 08
Fly Larvae Bioconversion: Exploring Different Substrates

Chairs: C. Adamaki-Sotiraki, C. Bressac

16:00 Black solider fly; a potential insect for managing kitchen bio-waste.
A. Abdullah, M. Ali

16:15 Valorisation of school canteen food waste with black soldier fly larvae in Central Europe via decentralised insect farms.
J. Vasickova, R. F. Calderon Barrientos, G. Obersteiner, E. Schmied, M. Gold

16:30 Using an insect for sustainable waste management of a superabundant bird.
C. López-Manzano, H. Mahdjoub, L. R. Arce-Valdés, R. Khelifa

16:45 Upcycling regional fruit and vegetable by-products into eco-feed using black soldier fly (*Hermetia illucens*).
B. W. Koo, K. W. Park, S. M. Ji, S. Y. Kim, J. H. Song

17:00 Treatment of food processing wastewaters by using black soldier fly larvae.
V. Grossule, M. Henjak

17:15 Valorisation of challenging waste streams using *Hermetia illucens* for animal feed and human food.
S. A. Mallard, L. Swinden, L. Donnellan, K. Wilkinson, P. Deo

Room Madrid

Session 09
Insects Nutrition, Quality and Safety

Chairs: S. Bellezza Oddon, D. Oonincx

16:00 Bacterial microbiota analysis of *Hermetia illucens* larvae fed with meat-based former foodstuffs.
G. Spatola, E. Copelotti, S. Mancini, A. Zanzot, A. Giusti, A. Trocino, R. Nuvoloni, A. Armani

16:15 Effect of storage temperature and duration on lipid oxidation of black soldier fly larvae meal.
G. Kanbur

16:30 Valorising unsold supermarket products through black soldier fly larvae rearing.
E. Copelotti, S. Mattioli, M. Vispi, N. Tous, A. Zanzot, N. Chiasso, L. Fihurska, K. Campbell, S. Mancini

16:45 Sublethal effects of cyromazine on life-history characters and reproductive performances of *Hermetia illucens*.
A. Zanzot, T. N. McNeil, S. Mancini, J. K. Tomberlin

17:00 Effects of zinc on life-history traits including heat resistance of *Hermetia illucens* larvae.
A. Zanzot, T. N. McNeil, S. Mancini, J. K. Tomberlin

17:15 Transfer and accumulation of arsenic, cadmium, and lead in farmed insects from endogenous substrate contaminants.
N. A. Sibinga, L. Vogels, L. Frooninckx, J. Claes, E. Smolders, M. Van Der Borght

17:30 Influence of agro-industrial by-product diets on the nutritional values of *Tenebrio molitor*.
A. Angioni, F. Corrias

17:45 The efficient degradation mechanisms of aflatoxin B1 by *Hermetia illucens* combined with gut microbe S. geniculata ZJA10.
A. R. Henawy, Z. Jibin

Room Parigi

Session 10
Insect Health and Welfare (II)

Chairs: M. Barrett, I. Opatovski

16:00 Green shields for *Hermetia illucens*: boosting the defense mechanisms of black soldier fly via microalgae supplementation.
C. Adamaki-Sotiraki, D. Bruno, M. Marzari, S. Zafeiriadis, A. Athanasiou, D. Roma, I. C. Rumbos, P. Madesis, M. Casartelli, G. Tettamanti, G. C. Athanassiou

16:15 Solinvivirus infection induces cellular antiviral response and reduces the lifespan of adult *Hermetia illucens*.
E. Herniou, R. Pienaar, P. García-Castillo, H. Piterois, V. Wallart, F. Manas, C. Bressac, S. Herrero

16:30 Dietary protein–carbohydrate ratio effects on growth, digestion, gut microbiota and immunity in black soldier fly larvae.
I. Armenia, D. Bruno, D. Roma, S. Caccia, M. Casartelli, F. Sandrelli, V. Orlandi, G. Tettamanti

16:45 Short-term pupal heat exposure significantly affects black soldier fly life-history traits.
T. Klammsteiner, E. Gemassmer, P. Lueders, P. Juen, F. Hasler, V. Bangerter, B. C. Schlick-Steiner, F. M. Steiner

17:00 When and where: Data insights for identifying temporal patterns in BSF behavior and biogeographical hotspots.
N. B. Lemke, B. Chamberlain, C. Li, J. De Smet

17:15 Thriving where others fail: the remarkable tolerance of black soldier fly larvae to polluted environments.
D. Bruno, M. Marzari, J. De Smet, A. De Benedictis, N. Sibinga, D. Vandeweyer, M. Van Der Borght, M. Casartelli, G. Tettamanti

17:30 Black soldier fly metabolomics: what can NMR tell us about the dietary flexibility of the larvae?
P. M. Duarte, O. M. C. C. Ameixa, M. Palma, F. Lourenço, R. Costa, I. Viegas

17:45 How larval diet composition and switching shape adult fitness in the black soldier fly.
H. Mahdjoub, R. Weladji, R. Khelifa

Room Lisbona

Session 11
Insect Processing (I)
Chairs: G. Baliota, A. Gligorescu

16:00 Effect of hybrid solar–electric drying temperature on the quality and functional properties of black soldier fly larvae.
M. Lehmad, B. Nomeir, P. Lhomme, N. Hidra, Y. El Hachimi, N. Abdenouri

16:15 Pilot-scale drying of black soldier fly adults: a preliminary study for compliance to veterinary feed requirements.
L. Rossi Ribeiro, O. Schlüter, F. Schindler, G. Rossi

16:30 Microwave assisted extraction of insect proteins: comparative analysis of alkaline and saline conditions.
M. Alvarado, M. Keshani, M. Ortiz, C. Güell, M. Ferrando

16:45 Effect of high-intensity ultrasound on quality of proteins from three different insect species.
E. Gousgoula, A. Poccia, L. Rossi Ribeiro, A. Altavilla, O. K. Schlüter, G. Rossi

17:00 Impact of membrane separation on functional and bioactive properties of insect proteins.
M. K. Ranasinghe, P. Aguadé, R. Mazzei, F. Bazzarelli, L. Giorno, A. Groso, G. Collet, R. Daniellou, M. Ferrando, C. Güell

17:15 High-pressure–assisted protein extraction to modulate functionality in black soldier fly.
M. Ferrando, S. De Lamo-Castellvi, T. Kaothaisong, M. C. Alvarado, M. Ortiz, S. S. Guduru, C. T. Simons, C. Güell, V. M. Balasubramaniam

17:30 Drying technologies for black soldier fly larvae: process efficiency, energy demand, and product quality.
M. Lehmad, B. Nomeir, N. Hidra, P. Lhomme, N. Abdenouri, Y. El Hachimi

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17:45 Limits of enzymatic and chemical chitin degradation in *Tenebrio molitor* larvae.
P. Sudwischer, M. Rickers, J. Heidhues, D. Sindermann, S. Wildförster, F. Tometten, M. Kölln, A. Grümpel-Schlüter, J. Kluess, D. Dänicke, W. Sitzmann, M. Hellwig

Room Atene

Session 12
Understanding Consumer Acceptance and Sensory Evaluation of Insects as Food
Chairs: C. Maya, G. Sogari

16:00 Multivariate sensory analysis of biscuits fortified with edible insect flours (*Hermetia illucens*, *Gonimbrasia belina*, *Macrotermes subhyalinus*).
V. V. Mshayisa, N. Vanqa

16:15 How snack processing and children's psychological profiles affect liking of insect-based snack.
J. Mota-Gutierrez, L. Pater, S. Journee, P. Toschi, M. Mishyna, M. Gariglio, C. Forte

16:30 From tradition to innovation: exploring entomophagy in Belgium and Benin.
M. Gosselin, A. H. Bokonon-Ganta, T. Marique, M. Mishyna, S. Crabeck

16:45 Traditional food culture and its relationship to entomophagy acceptance.
J. C. Ribeiro, V. Francisco, L. M. Cunha

17:00 Tourism and gastronomy as levers for edible insect acceptability.
S. Crabeck, D. Bogueva, A. Orkusz, M. Mishyna, A. van Huis, M. Gosselin

17:15 Should we call insects "insects"? Premiumisation Paradox.
M. Chaix-Bar

20:30 **Dine & dance on the bank of the river**

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Wednesday, 10 June 2026

Room 500

Panel
Opportunities for BSF Farming in Low and Middle Income Settings

8:30 Introduction to the Panel.

8:45 **Keynote Lecture**
Insects Aren't Failing. They're just Succeeding Elsewhere
Daniela Peguero

9:15 Overview BUGS Africa Project.
Piotr Barczak

9:25 Why Adoption to Local Context Matters.
Konstantin von Hoerner, Arthur de Dinechin, Trin Rujiravanich, Joyous Pious, Martin Tenywa

10:15 *Coffee break*

Panel
Opportunities for BSF Farming in Low and Middle Income Settings

10:45 Why Adoption to Local Context Matters (Q&A from audience).
Konstantin von Hoerner, Arthur de Dinechin, Trin Rujiravanich, Joyous Pious, Martin Tenywa

11:00 Creating an Environment for BSF Farming.
Anja Schwetje, Felipe Chamizo, Dorte Verner

12:25 Wrap up.

12:30 *Lunch*

Session 13
Insects in Ruminants and Poultry Feed
Chairs: M. Renna, P. Toral

13:30 Replacing palm fatty acid distillate by mealworm oil in sheep diet: 1) Effects on dairy performance and blood parameters.
P. G. Toral, P. Frutos, C. Baila, E. Barrio, M. Renna, P. Badino, L. Gasco, G. Hervás

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13:45 Insects in ruminant nutrition: uncovering their nutritive value, molecular profile, and methane-reducing potential.
K. D. Robertson, S. Stergiadis, K. Theodoridou

14:00 Diet supplementation with chitosan from *Tenebrio molitor*: effects on in vitro ruminal fermentation and biohydrogenation.
C. Baila, P. G. Toral, M. Hassanien, E. Barrio, P. Frutos, G. Hervás

14:15 The effects of black soldier fly larvae meal on methane and milk production in dairy cow diets.
H. M. Craig, A. Castañeda, D. Pitta, W. Lamp, E. Rico

14:30 Effects of black soldier fly larvae meal on blood metabolites, milk fat profile, and nutrient digestion in dairy cows.
H. Craig, A. Castañeda, S. Rassler, J. Bender, B. Lamp, J. E. Rico

14:45 Feeding live black soldier fly larvae to free-range Lohmann Brown laying hens: effects on performance and egg quality.
N. S. Stoehr, J. G. Brettschneider, L. Schneider, J. Stracke, R. Jha, G. Dusel

15:00 How do live larvae modulate reproductive performance, welfare, and behavior of dual-purpose chicken breeders?
V. Bongiorno, I. Biasato, S. Bellezza Oddon, Z. Loiotine, L. Gasco, A. Schiavone

Room Londra

Session 14
Sustainability Assessment and Agricultural Use of Insect Frass
Chairs: G. Di Cuia, M. Mielenz

13:30 Life Cycle Assessment of mealworm production in closed-loop systems enhancing crop production.
A. F. Francis, A. T. Thomsen, J. R. Rukov, S. S. Smetana

13:45 Carbon balance and emission reduction in BSF organics conversion significantly enhanced by microbial supplementation.
M. Z. Li, M. M. Cai, J. B. Zhang

14:00 Integrating sustainability assessment and advanced analytics in insect farming.
A. Francis, V. Khieya, S. Smetana

14:15 A modular decision support system (DSS) for cost and environmental optimization in insect production.
D. Rastogi, V. Khieya, J. I. Petrusan, S. Smetana

14:30 Recirculating BSF frass for an optimized waste bioconversion and high-quality fertilizer production.
I. Guidini Lopes, C. Lalander

14:45 Field evaluation of black soldier fly frass as an organic fertilizer for maize production in southeastern Madagascar.
C. L. Solofondranohatra, C. Andrianorosoa Ony, S. Burza, B. L. Fisher

15:00 Black soldier fly frass as a multifunctional input for sustainable crop protection and productivity.
L. Shaltiel Harpaz, A. Jonas-Levi, M. Gezonterman, R. Cohen-Hayat, M. Dafni Yelin, A. Shaviv, H. Castel, S. Gal, Y. Cohen, E. Palevsky

15:15 Advances in the production and application of insect frass fertilizers.
D. Beesigamukama, J. G. Njagi, R. Malingumu, L. O. Onyango, N. Kagehi, S. Y. Chia, S. Subramanian, C. M. Tanga

Room Madrid

Session 15
Insects as Novel Foods: Product Development and Evaluation

Chairs: A. Liceaga , V. V. Mshayisa

13:30 Extrusion of insect-plant protein blends: from insect ingredients to structural diversity.
M. Mishyna, M. Verhoeven, C. Lakemond

13:45 Structure and gelling properties of house cricket (*Acheta domesticus*) myofibrillar proteins.
G. Pellerin, F. Martel, A. Doyen

14:00 Optimized recovery of oil from *Encosternum delegorguei* for food and nutraceutical applications.
T. Makore, F. Ruzengwe, B. Mvumi, T. Matsungo

14:15 Can enzymatic hydrolysis enhance the bioactivity and reduce allergenicity of *Tenebrio molitor* flour?
C. S. S. Teixeira, R. Biltes, C. Dias, J. Costa, T. G. Tavares, C. Villa, I. Mafra

14:30 Edible insects and hidden risks: cross-reactive allergens in crustacean-allergic individuals.
S. Karnaneedi, E. Johnston, U. Bose, A. Juhász, T. Ruethers, E. M. Jerry, V. Limviphuvadh, M. Colgrave, S. Maurer-Stroh, A. L. Lopata, M. Hoffmann

14:45 Molecular detection of lesser mealworm (*Alphitobius diaperinus*) flour as an emerging allergen in processed foods.
C. S. S. Teixeira, R. Biltes, C. Villa, J. Costa, I. Mafra

15:00 Molecular characterization and assessment of potential allergens in *Hermetia illucens*.
T. Tedeschi, B. Prandi, K. Bugatti, S. Cutroneo, L. Calcinai, D. Delfino, L. Dellafiora, E. Ridolo, C. Folli

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15:15 Safety assessment and characterization of silkworm pupae as a potential novel food in Europe.
L. Tassoni, A. Saviane, S. Cappellozza

15:30 *Coffee break*

Room Lisbona

Session 16
Insect Genomes

Chairs: J. De Smet, F. Boatta

13:30 Geography and climate shape genetic diversity in black soldier fly populations across native and introduced ranges.
M. Kükrer, C. Sandrock

13:45 Assessing the genomic diversity of black soldier flies (*Hermetia illucens*) in ten globally distributed strains.
F. IJdema, M. Verschaeren, L. Frooninckx, L. Broeckx, J. Bouhuijzen-Wenger, J. De Smet, N. Buys, S. Van Miert, R. Meyermans

14:00 The effect of genetic homogeneity in farmed insects.
N. T. Hamilton, C. J. Picard

14:15 High-resolution population genetics of *Hermetia illucens* across Australia and Asia for sustainable breeding.
S. Septriani, K. B. Gowda, C. Tedder, N. Thi Thanh Vu, D. R. Jerr, K. R. Zenger

14:30 Early sexing with a molecular marker unlocks sex-specific phenotyping in BSF larvae.
N. Warthmann, A. A. Shah, M. Brankatschk, U. Lutz, M. J. Zorrilla, M. Gold

14:45 Development and validation of a cost-effective SNP genotyping panel for the black soldier fly.
M. J. Davidson, N. T. T. Vu, K. B. Gowda, S. Septriani, D. R. Jerry, D. B. Jones, K. R. Zenger

15:00 Larval weight-based GWAS reveals a sex-specific locus in black soldier fly.
K. B. Gowda, S. Septriani, D. B. Jones, D. R. Jerry, K. R. Zenger

15:15 OSDel-BSF: ovary-targeted delivery enables scalable CRISPR editing and RNAi in the black soldier fly.
E. Elfer, A. Sloutskin, S. Cohen, N. Tugentman, I. Nevo-Yassaf, I. Alyagor, I. Khalaila

15:30 *Coffee break*

Room Atene

Session 17
Black Soldier Fly Production (I)

Chairs: S. Bellezza Oddon, M. Gold

13:30 Biowaste treatment using black soldier fly larvae: Effect of substrate macronutrients on process performance.
M. Henjak, V. Grossule, J. K. Tomberlin

13:45 Dietary sugars influence substrate temperature and larval growth in black soldier fly larvae bioconversion.
A. Fuhrmann, M. Gold, Y. Bi, P. Azzari, M. J. Zorrilla, N. Puniamoorthy, A. Mathys

14:00 Optimizing larval density in black soldier fly (BSF) production using a dry hatching system.
R. Selmane, A. Kamoun Rebai, N. Hermi, G. El Mabrouk, L. Voutey, N. Kinet

14:15 Bringing order to complexity: performance monitoring at black soldier fly reproduction units.
A. Walker, C. Zurbrüegg

14:30 Why dry matter is not enough: Comprehensive physical property characterization of black soldier fly larvae substrates.
M. L. Schøn, M. Gold, C. Zurbrüegg, A. Mathys

14:45 The influence of disturbance of *Hermetia illucens* pupae on egg production.
C. L. Coudron, J. Claeys, L. De Praetere, D. Deruytter

15:00 Hatching methods of black soldier fly eggs: Implications for industrial rearing efficiency.
M. B. Ala Eddine, L. I. MacAvei, T. B. Barber, G. Benassi, S. Dabbou

15:30 *Coffee break*

Room 500

Session 18
Insects in Aquafeed

Chairs: G. Parisi, S. Mancini

16:00 Black soldier fly larvae modulate gut microbiota, inflammation, and serum metabolome in yellow catfish.
Z. Deng, C. M. Li, G. Gu, J. W. Yuen, G. Liu, S. Gao, W. Cai, B. MacKinnon, E. S. Chiu, Á. Kenéz

16:15 Insect–algae diets and their impact on rainbow trout growth and fillet quality.
K. Loufi, I. Biasato, A. G. Montanaro, J. P. Salvatico, C. Caimi, Z. Loiotine, S. Bellezza Oddon, A. Brugiapaglia, L. Gasco

16:30 Feeding *Colossoma macropomum* with flour from larvae of *Hermetia illucens* produced by Peruvian low-income fish farmers.
M. Alvan-Aguilar, E. Diaz, H. Satalaya, J. Najar, D. Castillo, P. Ramirez, L. Rodriguez, C. Fernandez, M. Sauvain

16:45 Beyond protein: the functional potential of black soldier fly larvae as a sustainable attractant for shrimp aquaculture.
L. Donati, M. Bezagu, M. Walraven, J. Dias, A. Barreto

17:00 Comparative effects of black soldier fly and mealworm meal on growth, composition, and antioxidants in striped snakehead.
H. Muin, N. M. Taufek

17:15 Effect of beetle-derived protein on growth and immune resilience of European seabass (*Dicentrarchus labrax*).
H. Fernandes, J. M. Salgado, N. Muñoz-Seijas, G. Campos, F. Fontinha, R. Magalhães, F. Soto-Beltrán, B. Fernández, J. M. Domínguez, H. Peres

17:30 Functional protein from silkworm enables fishmeal reduction without compromising atlantic salmon performance.
R. Mathew, L. Liu

17:45 Effects of chitinase inclusion on growth performance and somatic indices of juvenile rainbow trout (*Oncorhynchus mykiss*).
A. A. Melis, S. Bellezza Oddon, I. Biasato, K. Loufi, Z. Loiotine, C. Caimi, D. Deruytter, M. Van Spankeren, L. De Jong, L. Gasco

Room Londra

Session 19
Advances in Insect Bioconversion: Impact of Microbiomes and Process Optimisation

Chairs: R. Tedeschi, T. Klammsteiner

16:00 Monitoring and manipulating the microbiota of yellow mealworm larvae (YML) to improve their bioconversion performance.
M. Sajid, A. A. Durand, E. Yergeau, J. Laur, G. Vandenberg, P. Constant

16:15 Functional expression of PET-degrading enzymes in the BSF: a platform for insect-mediated plastic bioconversion.
M. Marzari, C. Fontana, D. Bruno, I. Nevo, I. Alyagor, D. Roma, S. Caccia, M. Casartelli, E. Caruso, A. Grapputo, G. Molla, F. Sandrelli, G. Tettamanti

16:30 Synthetic microbial community enhances the protein bioconversion from organic wastes by black soldier fly larvae.
Y. Q. Yu, C. Huang, J. Zhang, B. B. Wang, Z. Z. Zhao, F. Huang, M. M. Cai, L. Y. Zheng, J. B. Zhang

16:45 Progress on research and application of black soldier fly and microbes in China.
J. Zhang, M. Cai, L. Zheng, F. Huang, Z. Yu

17:00 Colonisation of the black soldier fly larval midgut by *Escherichia coli* for improved biotransformation strategies.
D. Roma, M. Vaghi, D. Bruno, C. J. R. Scott, M. Attafi, M. Vanoni, A. Pessina, L. Brambilla, L. Pollegioni, G. Tettamanti, M. Casartelli, S. Caccia

17:15 Agro-industrial by-products for black soldier fly larvae: gut microbiota, performance and probiotic application.
C. Jucker, G. Brenna, E. Bigarella, D. Hentati, R. Tedeschi, E. Crotti

Room Madrid

Session 20
Host-Microbe Interactions

Chairs: L. Frooninckx, B. Laurens

16:00 Unveiling host-microbe interactions critical dynamics in black soldier fly: from hatching to bioconversion.
Z. L. Li, L. Z. Zheng

16:15 Phenotypic plasticity and microbial signal: unraveling the *Hermetia illucens* response to long-term dietary shifts.
A. Gligorescu, S. N. Bushi, M. B. Lund, A. Schramm, T. N. Kristensen, J. G. Sørensen

16:30 Determining the gut microbiota composition of the yellow mealworm *Tenebrio molitor* in its industrial rearing environment.
E. Mollard, F. Delbac, H. El Alaoui, I. Wawrzyniak, V. Ageorges

16:45 Beyond linear nutrition: evidence for circular, microbially driven nutrient dynamics in black soldier fly larvae.
N. A. Sibinga, J. De Smet

17:00 Incidence and detection of spore forming bacteria in mass-reared black soldier fly larvae.
C. Savio, J. B. Guillaume, P. Lhomme, L. Bridoux, C. Buisson, V. Sanchis-Borja, C. Nielsen-Leroux

17:15 Profiling the resistome and virulome of the *Hermetia illucens* midgut microbiota.
C. J. R. Scott, D. Roma, M. Brilli, F. De Filippis, G. Sequino, G. Tettamanti, S. Caccia, M. Casartelli

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17:30 Black soldier fly immunity shapes the surrounding microbial community via antimicrobial peptides.
I. Opatovsky, M. Hareb, O. Lemberg

Room Atene

Session 21
Insect Processing (II)

Chairs: D. Peguero, D. Deruytter

16:00 Insect proteins as sustainable multifunctional emulsifiers for diverse colloidal food architectures.
M. Ferrando, C. Güell, A. Ballon, S. De Lamo-Castellví, J. Jayakumar, C. Camelo-Silva, M. Ortiz

16:15 From insect proteins to food systems: a stepwise processing and mimicking strategy for edible insect-based foods.
E. Y. Oh, Y. Y. Kim

16:30 Effect of water-to-larvae ratio during boiling on processing performance and quality of black soldier fly larvae.
R. Sorayani Bafqi, Z. Loiotine, I. Biasato, V. Bongiorno, L. Gasco, S. Bellezza Oddon

16:45 Optimised bioprocessing of *Tenebrio molitor* larvae for protein and oil valorisation.
P. Navarro, J. C. Ribeiro, M. E. Brassesco, M. Pintado, G. Pereira, L. M. Cunha

17:00 Antioxidant activity of edible insects: effect of method of extraction, bioactivity assay and diet.
E. Rodríguez-González, V. Da Cunha-Borges, D. Martin, M. R. García-Risco

17:15 Slaughtering methods outcomes on the oxidative stability, antioxidant response, safety and functionality of *Tenebrio molitor*.
P. Navarro, J. C. Ribeiro, C. Brollo, T. R. Fernandes, S. M. P. Carvalho, M. Pintado, G. Pereira, L. M. Cunha

17:30 Integration of emerging technologies for insect processing in a biorefinery framework.
H. Mhemdi, R. El Hajj, E. Vorobiev

17:45 Learnings from a decade of insect processing: processing as one key driver for profitability.
A. Kühl

Thursday, 11 June 2026

Room 500

Session 22
Insects in Poultry Feed
Chairs: N. Mohd Taufek, A. Schiavone

8:30 Dietary black soldier fly larvae meal alters serum metabolomic profiles in silkie chicken.
C. M. Li, Á. Kenéz

8:45 Effects of yellow mealworm meal and oilseed cakes on growth performance and carcass traits of broiler chickens.
A. Dalle Zotte, B. Palumbo, E. Nalon, M. Birolo

9:00 Effect of house cricket or black soldier fly meals dietary inclusion on meat trait of broilers.
J. Aleixo, R. Andrade, B. Tavares, J. R. Sales, C. F. Martins, E. A. Fernandes, C. Bila, S. P. Alves, E. Figueiredo, A. Garcia, A. Raymundo, M. Lordelo, M. R. G. Maia, A. M. De Almeida

9:15 Growth performance and digestive tract morphology of broilers fed diets with house cricket or black soldier fly meals.
J. Aleixo, R. Andrade, B. Tavares, C. F. Martins, C. Bila, S. P. Alves, E. Figueiredo, A. Garcia, M. Lordelo, M. R. G. Maia, A. M. De Almeida

9:30 Beldi chickens meets *Hermetia illucens*: growth performance, welfare and meat quality.
B. Ahbare, Y. Bacha, I. Biasato, L. Gasco, A. El Yaacoubi

9:45 Black soldier fly larvae in slow-growing chicken diets: effects on growth, gut health and digestive enzyme modulation.
E. Fiorilla, M. Gariglio, M. T. Capucchio, A. Schiavone

10:15 *Coffee break*

Room Londra

Session 23
Insect Biology and Health
Chairs: S. Belluco, F. Meyer

8:30 Common garden study: stage- and sex-specific trait divergence in black soldier fly lines with contrasting diet histories.
Q. H. Zhang, J. Lin, Y. Tang, S. Silvaraju, N. Puniamoorthy

8:45 Stage-specific feeding effects on mealworm growth, survival, and reproduction. Evidence from two case studies in Uganda.
V. Gwokyalya, H. Kelstrup, R. Kayizi, R. Schjødt, E. Ssebbombo

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9:00 From manual measurements to automated precision: a novel predictive phenotyping method for black soldier fly larvae.
S. Espinoza-Ulloa

9:15 Tracking and classifying black soldier fly larval group movement using computer vision.
M. Hoffmann, J. De Smet, B. Aernouts

9:30 Review of larval performance and composition data of *Tenebrio molitor* for predictive model development.
C. Morand, C. Constant, L. Henault-Ethier

9:45 The carry-over effect of developmental temperature on black soldier fly adult fitness.
C. Li, H. Zhang, Y. Huang, N. B. Lemke, D. Salazar, J. K. Tomberlin, Y. Cao

10:00 Fungal contributions to black soldier fly performance: metabolic mechanisms and implications for rearing optimization.
I. Opatovsky, Z. Vitenberg, N. Herman, L. Ben-Mordechai

10:15 *Coffee break*

Room Madrid

Session 24
Insect Bioconversion of Recalcitrant Substrates
Chairs: S. Naser El Deen, C. Zurbrügegg

8:30 Tomato leaf waste handling affects growth performance and glycoalkaloids in desert locusts.
Y. Luo, N. Förster, M. Bogdanova, S. Schulz, I. Mewis, C. Ulrichs, W. Yakti

8:45 Valorization of olive pomace and other Algerian agro industrial by products in black soldier fly rearing.
B. Hamdani, Z. Cherifi, W. Merrouche, H. Hammoudi, N. Badis, N. Mabrek, M. T. Capucchio, A. Abdelli

9:00 Enhancing the nutritional value of olive pomace via microbial fermentation for *Hermetia illucens* larvae production.
J. D. Fernandez-Bayo, S. Ortega, N. Rubiejo Pérez, B. Brown, F. Carvalho Muzzi, D. Altmajer Vaz

9:15 Research on the efficiency and application prospects of black soldier fly cascading degradation of high-fiber waste.
R. Shang, L. Zheng, J. Zhang, Z. Yu

9:30 Closing the loop: evaluation of tomato by-products as feed for *Tenebrio molitor* larvae.
R. H. Nakirya, T. I. Gogou, P. Soulioti, E. Valli, M. Guida, C. I. Rumbos, C. G. Athanassiou

9:45 Olive it or leave it: valorizing olive fragments in black soldier fly larvae diets.
T. I. Gogou, R. H. Nakirya, P. Soulioti, E. Valli, C. I. Rumbos, M. T. Capucchio, C. G. Athanassiou

10:15 *Coffee break*

Room Parigi

Session 25
Production of Mealworms and Other Insect Species
Chairs: C. Jucker, C. Rumbos

8:30 Linking biological performance to economic outcomes: a sensitivity analysis of *Acheta domesticus* rearing.
R. Zorrilla Gonzalez, E. Neff

8:45 Diet effects on development, nutrition, safety, and gut microbiota of *Protaetia brevitarsis larvae*.
S . Y. Kim, M. J. Park, K. M. Park, B. Koo, S. Ji, K. H. Park

9:00 Thermal effects on growth and development of *Duolandrevus* (*Eulandrevus) ivani*.
S. M. Ji

9:15 Design of an industrial modular *Tenebrio molitor* farm for the food industry.
A. L. Nava Sedano, D. Ocampo Nava, C. Osorio Cano, L. J. Muñiz Rascado, A. Olarte Paredes

9:30 Moisture optimization for adult beetles: assessing hydration needs in *Tenebrio molitor*.
D. Deruytter, J. Claeys, C. L. Coudron

9:45 Preliminary results on how does temperature affect the performance of crickets: grill or chill?
J. Folke, M. Kulma, P. Kouřimský

10:15 *Coffee break*

Room Lisbona

Session 26
Safety and Sustainability of Insect-Derived Products
Chairs: C. Savio, C. Coudron

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8:30 Feeding resilience: why Mediterranean food systems need insects.
V. Khieya, A. Francis, S. Smetana

8:45 Evaluation of the susceptibility of insect meals to infestations by major stored-product beetle species.
C. G. Athanassiou, G. Baliota, C. I. Rumbos, T. Ozeri, S. Thammasart

9:00 Antibacterial activity of *Hermetia illucens* oil against bovine mastitis-associated pathogens.
D. Nucera, L. Gasco, J. Ahmed, L. Rastello, D. Cima, C. L. Flores Conchoy, M. Renna

9:15 Integrating insect protein into sustainable food systems: a TEA of *Tenebrio molitor* - enriched bread.
M. Ferreira Dias, F. Reis, J. Souza, A. J. Gil, M. Santos, D. Murta, P. Quinteiro

9:30 Black soldier fly larvae meal in vitro assessment: antioxidant capacity, cytotoxicity, and impact on epithelial barrier.
T. Hassan, S. Bagatella, M. A. Arif, S. Cianea, O. B. Demirtas, M. I. Malik, S. Mioletti, M. Jiménez Serrano, S. L. Bavaro, M. R. Carillo, W. Fraihi, M. Gastli, L. Gasco, I. Biasato, M. H. Kogut, M. T. Capucchio

9:45 In vitro assessment of the antagonistic activity of *Tenebrio molitor* frass extracts against *Alternaria solani*.
A. Rumbou, P. Schmidt, M. Psarianos, A. Klinke, P. Saini, V. Stoyanov, G. Baliota, C. Athanassiou, C. Rumbos

10:15 *Coffee break*

Room Atene

Session 27
Developing the Insect Food Sector: Adoption, Commercialisation, and Industry Perspectives
Chairs: A. Liceaga, S. Diener

8:30 Gendered influence on the extent and adoption speed of cricket farming among smallholders in East Africa.
N. Ndungu, H. Isaboke, W. Nyarindo, M. Otieno, M. Gicheha, J. Kinyuru

8:45 Two decades of Dutch public-private collaboration to scale the insect sector: transition dynamics and lessons learned.
M. Peters, A. van Huis, T. Veldkamp

9:00 Turning waste into wealth: harnessing insect protein for sustainable greener poultry production and consumer adoption.
C. M. Tanga, L. K. Wamai, V. O. Omondi, D. Beesigamukama, S. Y. Chia, M. N. Getahun

9:15 Are insects relevant in children's diet? Factors affecting acceptance, and nutritional and health benefits or risks.
N. Roos, T. Boit, A. Melse-Boonstra

9:30 A survey of Australian insect producers: state of the industry with a focus on biosecurity.
E. A. Brust, A. Barca, J. Camac, S. Pyecroft, E. Hudgins

10:15 *Coffee break*

Room 500

Session 28
Insects in Human Health

Chairs: C. Lamberti, M. Dicke

10:45 Functional peptide fractions from black soldier fly protein: bioactivity, selectivity, and gut microbial metabolism.
I. D. Okehie, J. K. Tomberlin, W. Thilakarathna, R. Ovissipour

11:00 Fate of chitin from different insect fractions during in vitro human gut fermentation.
C. Pedrazzani, M. Mishyna, E. Capuano, V. Fogliano, A. Caligiani

11:15 Mono- and disaccharide composition of insects and their suitability for individuals with disaccharide intolerance.
L. Kourimska, E. Vaclavikova, F. Beno, P. Skvorova, M. Kulma, P. Kourimsky, F. Kvasnicka

11:30 Identification of bioactive peptides with potential human health applications from black soldier fly larvae.
M. Hoffmann, S. Karnaneedi, R. Nugraha, F. Kurniawan, K. R. Zenger, A. L. Lopata

11:45 Antioxidant and anti-Inflammatory activity of waxworm and buffalo worm bioaccessible and bioavailable peptides.
A. J. Hernandez Alvarez, Z. Ma, C. Bosch, O. A. Sanchez Velazquez, M. Mondor

12:00 Edible cricket supplementation and nutrition education modulate gut microbiota of infants aged 6-14 months in Kenya.
J. K. Ng'ang'a, N. Okeyo, H. Kihuga, S. M. Kiiru, B. Kanoi, S. Konyole, N. Roos, J. N. Kinyuru

12:15 The influence mechanism of lactic acid bacteria to ensure the sustainability of insect food production.
V. B. Danso

12:30 *Lunch*

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Room Londra

Session 29
Insect Substrates

Chairs: J. Guillame, I. Biasato

10:45 Industrial valorization of dairy, tomato and chili processing by-products using black soldier fly larvae.
N. Hermi, H. Guebli, O. Nguyen, V. Steinmetz

11:00 Broodstock: size is fine, diet is better - A production-scale reality.
C. Bolduc, M. Cooling, C. Warburton

11:15 Dietary protein level regulates nutrient composition dynamics in black soldier fly larvae across the life cycle.
L. Schneider, B. Kisinga, N. S. Stoehr, G. Dusel

11:30 Influence of diet composition on the NPK fertilizing value of frass from *Tenebrio molitor*.
C. Morand, C. Constant, L. Hénault-Ethier

11:45 Modulating bioactive compounds in black soldier fly larvae through waste feedstocks and industrial processing.
J. C. Maddams, K. R. Zenger, A. L. Lopata

12:30 **ASIFF Annual Meeting (only for ASIFF members)**

12:30 *Lunch*

Room Madrid

Session 30
Optimising Substrates and Pre-Treatments for Black Soldier Fly Bioconversion

Chairs: D. Peguero, J. I. Petrusan

10:45 Olive pomace and goat manure valorisation by anaerobic digestion and bioconversion with *Hermetia illucens*.
A. Dolce, G. Lomonaco, F. Iannielli, N. Rubiejo Pérez, R. Salvia, C. Scieuzo, J. D. Fernandez-Bayo, P. Falabella

11:00 Efficacy of thermophilic aerobic fermentation of pig carcasses and subsequent bioconversion by black soldier fly larvae.
L. Broeckx, L. Saucier, M. H. Deschamps, M. Dallaire-Lamontagne, M. P. Rivera Rodríguez, C. S. Osorio Gonzalez, J. Deslauriers, J. M. Allard Prus, M. O. Benoit-Biancamano, G. W. Vandenberg

11:15 When apple meets olive: nutrient balanced pomace diets driving black soldier fly density and performance.
P. Soulioti, T. I. Gogou, R. H. Nakirya, E. Valli, C. I. Rumbos, M. Sakka, M. T. Capucchio, C. G. Athanassiou

11:30 From Mediterranean waste to insect protein: larval performance of *Hermetia illucens* on two-phase olive pomace diets.
P. Soulioti, G. Baliota, C. I. Rumbos, M. T. Capucchio, C. G. Athanassiou

11:45 Evaluating the effect of chemical pretreatment of lignocellulosic biomass through black soldier fly larvae performance.
M. Sultana, A. Rath, C. Schwennen, A. Wahab, S. Lipinski, C. Visscher, N. Grabowski, M. Plötz, K. Rehman

12:00 Impact of predigestion of organic residues on black soldier fly protein and its use in organic post-weaning pigs.
R. Caparros Megido, H. Luttenschlager, J. Carpentier, Y. Beckers, S. Finet, J. Wavreille, F. Francis

12:30 *Lunch*

Room Parigi

Session 31
Insect Engineering

Chairs: M. Peters, B. Holtermans

10:45 Evaluating the impact of AI-driven monitoring tool on efficiency, sustainability, and market adoption in BSF production.
M. Hasan, U. Liebau, S. Mysore Guruprasad

11:00 Automated image-based assessment of black soldier fly larval quality at batch level.
D. T. Tippani, H. T. Tödtmann, D. E. Ewald, B. K. Kubsch

11:15 A low-cost larvae counter for black soldier fly systems.
J. Biner, S. Diener, B. Dortmans, C. Zurbruegg, J. Tkaczuk, E. Tilley

11:30 Integrating bioacoustics into multi-sensor architectures for precision insect farming.
S. Mysore Guruprasad, M. Hasan, U. Liebau

11:45 Batch-invariant identification of edible insects from NIR spectra with explainable AI.
M. Babor, G. Rossi, A. Altavilla, O. Schlüter, M. M. C. Höhne

12:00 An AI-based framework for feed optimisation in black soldier fly rearing under substrate variability.
S. Mysore Guruprasad, M. Hasan, U. Liebau

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Room Lisbona

Session 32
Applications of Insect Frass and By-Products (II)

Chairs: M. H. Deschamps, I. Guidini Lopes

10:45 Frass, a high value product or waste?
J. Claeys, C. L. Coudron, D. Deruytter

11:00 Effect of frass water extracts from four insects and a pre-commercial frass-based formulation on *Meloidogyne incognita*.
N. Ntalli, T. Kardami, N. Tsiropoulos, G. Baliota, C. Athanassiou, V. Stoyanov, C. Rumbos

11:15 Black soldier fly frass as fertilizer: evaluation on nutritional effects in the vineyard over a period of two years.
F. Grosso, S. Ulrich, M. Meneguz, K. Bohm

11:30 Valorization of frass and exuviae from *Hermetia illucens* as a tool for reducing *Fusarium* wilt disease on lettuce.
L. Alfarano, S. Bellezza Oddon, L. Gasco, M. Pugliese

11:45 Insect frass-based fertilization as an agroecological strategy for mediterranean tomato cultivation.
G. Di Cuia, M. D'Imperio, V. Napolitano, M. Gonnella, F. Gai, G. Mulè, S. Hussein, M. Ferrara, A. Parente

12:00 The potential of enteric methane mitigation in cows by frass from black soldier fly larvae bioconversion.
K. Bohm, F. Giulia, M. Niu, M. Gold

12:15 Valorizing insect by products as natural antifungal agents for postharvest protection.
T. Spranghers, D. Desplentere, P. Dewitte, J. Lievens, E. Van Eenoo

12:30 *Lunch*

Room Atene

Session 33
From Producers to Consumer Perceptions: Insects as Feed

Chairs: V. Merlino, J. Kinyuru

10:45 Consumer priorities regarding sustainability and animal welfare with implications for insect farming.
B. Fischer

11:00 Regulatory framework for insect farming in the European Union: NGO perspective.
F. Maugère

11:15 Italian consumers' perspectives on dairy and meat products from insect-fed ruminants.
M. Renna, L. Rastello, L. Gasco, L. Livorsi, P. G. Toral, R. De Cianni, V. M. Merlino

11:30 Dairy consumer and producer acceptance to black soldier fly larvae meal in dairy cow diets.
H. M. Craig, Z. Blackman, J. Shaffer, W. Lamp

11:45 Italian consumers' preferences for insect-fed gilthead seabream: insights from a discrete choice experiment.
G. Sogari, R. Wongprawmas, G. Andreani, E. Copelotti, A. Zanzot, S. Mancini, D. Menozzi, C. Mora

12:00 Sensory analysis of cold-smoked trout fillets from fish fed insect and poultry by-products meals.
J. P. Salvatico, I. Biasato, C. Caimi, S. Bellezza Oddon, L. Gasco, A. Brugiapaglia

12:30 *Lunch*

Room 500

13:30 **Panel**
Communication Approaches to Insects as Food and Feed

15:30 *Coffee break*

Session 34
Food Products Development
Chairs: M. Mishyna, A. Brugiapaglia

16:00 Development of corn-based extruded snack enriched with lesser mealworm flour.
A. Kozlu, D. K. Baigts-Allende, T. Kudera, L. Seguí Gil

16:15 The effect of yellow mealworm-enriched maize porridge on growth of school-going children in Western Uganda.
T. Boit, V. Gwokyalya, D. Nakimbugwe, B. Grenov, E. Mupere, N. Roos

16:30 Nixtamalization of *Sphenarium purpurascens* and its application in maize tortillas.
B. A. Acosta-Estrada, E. Perez-Carrillo, M. T. Ramirez-Arriaga, C. M. Rosell, S. O. Serna-Saldivar

16:45 Production and characterisation of extruded snacks with incorporation of mixtures of house crickets and lupin beans.
R. N. Isaías, J. C. Ribeiro, L. Loureiro, C. Rocha, A. A. Vicente, L. M. Cunha, M. Igual, P. García-Segovia, J. Martínez-Monzó

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17:00 *Tenebrio molitor* larvae as a sustainable alternative for developing nutritious beverages.
D. K. Baigts Allende, A. Kozlu

17:15 Development and quality evaluation of a novel protein bar enriched with food-grade roasted *Tenebrio molitor* powder.
S. S. K. Daluwatta, E. S. L. H. Ranathunga, E. R. J. Samarakoon, L. Gasco, P. Weththasinghe

17:30 Development of a cricket-flour protein beverage: a sustainable and nutritionally viable alternative.
H. Pinheiro, A. Guimarães, A. Vinhas, A. Mota, M. Teireira, J. Gonçalves, N. Cunha

17:45 Integration of *Tenebrio molitor* flour in protein bars: from formulation to industrial scale-up and market comparison.
A. Vinhas, A. Guimarães, A. Mota, H. Pinheiro, M. Teixeira, B. Barbosa, C. Rocha, R. Lima

Room Londra

Session 35
Insect Breeding
Chairs: S. Panagiota, L. Zheng

16:00 Revealing the reproductive biology of the black soldier fly: from age determination to mating dynamics.
Y. Riabtseva, B. Grodzki, M. Bolard

16:15 Optimising targeted mating in a black soldier fly breeding program.
A. A. Shah, M. J. Zorrilla, V. Reda, M. Gold, N. Warthmann

16:30 Mating behaviour and sensory cues in BSF: key factors for optimizing reproductive performance in mass rearing.
G. Petroni, S. Piersanti, G. Salerno, M. Rebora

16:45 Patience Pays: a successful multi-year breeding program in black soldier flies.
K. Shrestha, L. W. Beukeboom, L. Francuski

17:00 Sperm storage in BSF females reveals sexual conflicts: partial storage and digestion.
C. Bressac, F. Manas

17:15 Metabolic regulatory networks for targeted nutrient synthesis in black soldier fly.
L. Z. Zheng

17:30 Identification of stable reference genes for RT-qPCR normalization in *Acheta domesticus*.
H. Ben-Miled, N. Périard, F. Renois, M. H. Deschamps, F. Meurens, M. O. Benoit-Biancamano

Room Madrid

Session 36
Impact of Substrate on Insect Bioconversion

Chairs: C. Athanassiou, P. Bulak

16:00 Dairy sludge as a rearing diet for black soldier fly larvae (*Hermetia illucens L.*): Successful? Efficient?
S. Naser El Deen, T. Veldkamp, P. Van Wikselaar, K. Van Rozen, W. C. W. Tao, H. Elissen, K. C. W. Van Dongen

16:15 Milk for beetles: alternative wet feed sources for insect rearing.
A. Resconi, G. Baliota, S. Zafeiriadis, L. Gasco, C. Athanassiou

16:30 Feeding *Tenebrio molitor* larvae (TML) with aquaponics waste for circular and sustainable production.
S. Errico, A. Verardi, S. Moliterni, R. Rebuzzi, P. Sangiorgio, S. Dimatteo

16:45 Ingestion of polyurethane foam by *Tenebrio molitor* larvae: effects of nutritional and probiotic supplementation.
G. Fondevila, V. C. Sein-Echaluce, M. Fondevila

17:00 Well-timed provision of digestible carbohydrates improves manure utilization by housefly larvae.
D. G. A. B. Oonincx, L. Pisa, W. H. Hendriks, G. Bosch

17:15 Integrating dairy side-streams into insect rearing: performance of *Hermetia illucens* and *Tenebrio molitor* larvae.
G. Baliota, S. Zafeiriadis, G. Vrontakis, T. Gogou, C. Adamaki-Sotiraki, C. I. Rumbos, C. G. Athanassiou

17:30 Feeding *Alphitobius diaperinus* larvae with adults of *Aedes albopictus* and *Bactrocera dorsalis*.
G. Baliota, X. Gkargkavouzi, A. Michaelakis, C. I. Rumbos, A. Puggioli, R. Bellini, T. Ozeri, S. Thammasart, C. G. Athanassiou

17:45 The effects of fish-feces diets on the growth and elemental composition of *Hermetia illucens* and *Tenebrio molitor*.
W. Yakti, E. W. Poley, C. Shaw, I. Mewis, W. Kloas, D. Deruytter, C. Ulrichs

Room Parigi

Session 37
Insect Production and Processing

Chairs: M. Van Der Borght, G. Rossi

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16:00 Microbiological food safety hazards related to *Bacillus cereus* group in black soldier fly (*Hermetia illucens*) production.
D. Vandeweyer, J. Maeriën, J. Vermeulen, D. Lachi, J. De Smet

16:15 Friend, foe or feint? Metagenome-guided insights into Scrofimicrobium in black soldier fly larvae.
F. Ijdema, D. Lachi, N. Sibinga, J. De Smet

16:30 From substrates to safety: larval production and HACCP-based risk analysis of *Hermetia illucens* meal.
K. C. Torres Monroy, E. M. Menjura Rojas, H. A. Arevalo Arevalo, S. M. Vásquez Mejí, K. B. Barragán Fonseca

16:45 Beyond biomass: microbial stabilization of host homeostasis in *Hermetia illucens*.
H. K. Walt, E. Harris, S. McPeek, E. Odii, J. Smink, F. Meyer, S. Behmer, F. G. Hoffmann, J. K. Tomberlin, C. Picard, H. R. Jordan

17:00 Exploring the impact of dietary changes during black soldier fly rearing on their microbiome composition and performance.
K. Cerckel, F. Ijdema, S. Berrens, L. Frooninckx, J. De Smet

17:15 DIC technology on the BSF larvae preservation: microbiological decontamination, quality characteristics and COVs profile.
C. Jablaoui, J. Dhaouafi, V. Lefrançois, J. Hauchecorne, H. Romdhana, S. Mezdour

17:30 Prophylactic efficacy of bacteriophages against *Salmonella* spp. in black soldier fly larvae rearing systems.
J. Maeriën, D. Vandeweyer, J. A. Wouters, B. Marcelli, J. De Smet

17:45 Accumulated degree hours and substrate-specific thermal models in commercial BSF facilities.
M. Chaix-Bar

Room Lisbona

Session 38
Insect Biorefinery Applications

Chairs: L. Gasco, M. Zorrilla

16:00 Wool dyeing with protein hydrolyzate from black soldier fly.
M. Zoccola, A. V. Mohod, M. Aniello, S. Bellezza Oddon, L. Gasco, G. Dalla Fontana, P. Bhavsar, S. Dalle Vacche

16:15 Natural deep eutectic solvents as green way to extract protein, chitin and obtain chitosan from *Tenebrio molitor* beetle.
N. Muñoz-Seijas, H. Fernandes, F. Soto-Beltrán, B. Fernandez, J. Domínguez J. Salgado

16:30 Fermentation-driven enhancement of functional and sensory properties of edible insects for sustainable food applications.
E. Lee, Y. Kim

16:45 High-yield, time-saving and water-efficient extraction of chitin and chitosan from *Hermetia illucens* breeding waste.
S. Elouali, Y. Ait Hamdan, S. Benali, P. Lhomme, M. Gosselin, J. Raquez, M. Rhazi

17:00 Cricket derived chitosan as a sustainable clarifying agent for apple juice.
I. Turhan Kara, Y. Akis, E. Inan, C. Kurt

17:15 *Tenebrio molitor* proteins concentrate as a natural emulsifier in oleogel-based HIPEs.
A. Vissio, S. Cito, C. Güell, V. Glicerina, V. Cardenia, M. Ferrando

17:30 Functional bioactivities of chitin-rich fractions from black soldier fly larvae (*Hermetia illucens*).
P. Deo, N. J. Wilden, T. H. D. Le, C. Malcolm, J. Malcolm, S. A. Mallard

Room Atene

Session 39
Scaling Insect Farming Systems and Regional Implementation

Chairs: K. Barragan Fonseca, A. van Huis

16:00 Scaling black soldier fly microfarming for food security and circular agriculture: evidence from four regions, Madagascar.
I. Ramanandraibe, C. Solofondranohatra, V. Andriambolatiana, E. C. Rasambo, P. Herinandrasana1, M. Andrianantenaina, S. Burz, M. Osborne,B. L. Fisher

16:15 Context matters: designing medium-scale BSF systems for African markets. Evidence from Uganda.
K. Von Hoerner, S. Von Hoerner, B. Dortmans, S. Diener

16:30 The simplified black soldier fly approach for small-scale, part-time farming: experience from north eastern India.
B. Dortmans, A. Mishra, S. Diener

16:45 A "Hub & Spoke" BSFL model in Myanmar: overview, applied R&D and market development.
D. J. Allan, E. I. Phyu

17:00 Economic feasibility of valorizing hatchery residues in Quebec through fermentation and black soldier fly bioconversion.
M. Dallaire-Lamontagne, C. Zurbrüegg, S. Rivest, S. Fournel, C. Warburton, J. M. Allard Prus, M. Pouliot, L. Saucier, G. W. Vandenberg, M. H. Deschamps

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20:00 **Social dinner**

Friday, 12 June 2026

Room 500

Session 40
Insects in Health and Adoption

Chairs: M. T. Capucchio, F. Gai

8:30 From rearing and processing to gastrointestinal digestion: oxidative and glycative reactions in black soldier fly larvae.
L. Collet, Q. Nguyen, T. T. T. Tra, X. Tian, G. Du Laing, L. D. Phung, S. De Smet, T. Van Hecke

8:45 Bioactive peptides from *Acheta domesticus*: in silico, in vitro, and cellular cardiometabolic assessment.
C. S. S. Teixeira, C. Villa, R. Biltes, S. F. Sousa, J. Costa, I. M. P. L. V. O. Ferreira, T. G. Tavares, M. A. Faria, I. Mafra

9:00 Impact of diet on *Tenebrio molitor* oil: composition, oxidative stability and digestibility.
V. Da Cunha Borges, E. Cantero-Bahillo, D. Martín-Hernández, L. Vázquez, D. Martin

9:15 Enhancing recipe healthfulness by replacing conventional meats with edible insects.
J. W. Ndungu, P. Chege, J. N. Kinyuru

9:30 The edible insects of Tanzania; current potential and future opportunities.
M. M. Mmari, J. N. Kinyuru, S. Rashid

9:45 Characterization and application of *Acheta domesticus* in sustainable food systems.
A. Brena-Melendez, V. Tejada-Ortigoza

10:30 *Coffee break*

Room Londra

Session 41
Evidence from Practice: Regulatory, Economic and Project-Based Insights

Chairs: S. Barbosa, D. Vandeweyer

8:30 EcoeFISHent: circular valorization of fish by-products through insect bioconversion.
M. Tejeda, S. Belleza-Oddon, M. Aleksandrova, I. Mincheva, A. A. Melis, L. Gasco, M. Bolard

8:45 A review on insects and urban circularity: future pathways for food loss and waste interventions.
O. Sanusi, K. Kantamaneni, P. Tiwasing, A. Andongma, U. Ravindran, F. Baker, D. Mwai

9:00 BioInsectonomy: a trinational collaborative project for circular insect-based feed production from agricultural residues.
C. Garino, S. Broll, A. P. Muñoz Ramírez, O. Pötz, T. Meisinger, I. Belghit, H. Broll, K. Barragán-Fonseca

9:15 Enabling waste-based insect feed systems for circular agri-food transformation: governance lessons from Uganda. *F. Lwiza, A. J. Komakech*

9:30 Fish side-streams to high-value resources: Environmental and economic sustainability of black soldier fly biorefinery.
A. Aldaghi, M. Costamagna, S. Truffa, M. Perucca, I. Mincheva, M. Tejeda, M. Aleksandrova

9:45 LCA applications for the eco-design of the insect-based circular economy. A site-specific study on yellow mealworm production.
E. Vagnoni, G. Serra

10:00 Regulatory latitude and black soldier fly rearing in North America.
H. A. Hobbs

10:30 *Coffee break*

Room Madrid

Session 42
Black Soldier Fly Production (II)

Chairs: L. Wein, M. Tejeda

8:30 Identification of process phases in black soldier fly larvae bioconversion of food waste.
A. Fuhrmann, M. Gold, M. Bours, E. Turrisi, A. Spaccasassi, C. Dawid, T. Furuhashi, L. E. Yu, I. Haberkorn, N. Puniamoorthy, A. Mathys

8:45 Bodybuilding babies – An optimised Sofia diet for neonatal black soldier fly *(Hermetia illucens*) larvae.
W. Grindle, S. Popova, M. Partalozova, D. G. A. B. Oonincx, M. Bolard, M. Tejeda

9:00 Effects of adult density on egg production and neonatal output in industrial-scale black soldier fly rearing.
T. B. Barber, M. B. Ala Eddine, L. I. MacAvei, S. Dabbou, L. Maistrello, G. Benassi

9:15 Black soldier fly *Hermetia illucens*) farming in rural Greece under variable temperature regimes and local agrifood residues.
A. Yarali Paisios, A. Anthousi, E. Paisios

9:30 Effects of long-term storage on *Hermetia illucens* larval performance.
L. Broeckx, L. Frooninckx, M. Verschaeren, R. Meyermans, F. Ijdema, S. Van Miert

9:45 Effects of early larval weight on survival of *Hermetia illucens* across waste substrates.
V. Wiklicky, I. Lopes, M. Kullberg, C. Lalander

10:00 Achieving thermogenesis in bench-scale black soldier fly larvae experiments.
M. J. Zorrilla, R. F. Calderon, M. Tayyab, T. Saleem, N. Warthmann, F. Weihnhold, M. Gold

10:15 Practical case studies of black soldier fly production.
K. Unger, J. Wixler

10:30 *Coffee break*

Room Lisbona

Session 43
Governance, Economics and Emerging Applications in Insect Systems

Chairs: K. Barragán-Fonseca, M. Renna

8:30 Disgust, culture and colonial legacies in attitudes toward edible insects. *A. van Huis*

8:45 Nutritional profile of the chicatana ant (*Atta mexicana*): a comparison between two regions in the Mexican Southeast.
V. A. Mirón Mérida, D. Barragán García, E. Pérez Carrillo, C. C. Ibarra Herrera, V. H. Urrutia Baca, M. Martínez Ávila, C. E. Chuck Hernández

9:00 Estimating economic values of traits in *Hermetia illucens* production in the tropics: a bio economic modelling approach.
H. G. Tariku, R. M. Zaalberg, S. Walusimbi, L. S. Hansen, R. M. Zaalberg, G. Gebreyesus, D. Nakimbugwe, D. Rugira-Kugonza, R. C. Bett, H. M. Nielsen

9:15 Critical business metrics of BSF bio-waste operations: comparative analysis across developed and developing countries. *Y. Marjanen, S. Danubio*

9:30 Insect management in agri-food systems: validation of a multidimensional tool using edible species.
K. Barragán-Fonseca, J. E. Ortiz, R. Peraza, C. A. Martínez, D. Giron, J. D. García-Arteaga

9:45 NutrInsecta: tools for insect bioprospecting, production and nutrition to inform emerging regulation.
H. A. Arevalo, E. M. Menjura, S. Cadena, J. E. Ortiz, R. D. Peraza, D. Rojas, S. M. Vásquez-Mejía, K. Barragán-Fonseca

10:30 *Coffee break*

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Room Atene

Session 44

Insect Genetics, Physiology, Health and Welfare

Chairs: R. Tedeschi, G. Tettamanti

8:30 Investigation and mitigation of a vertically transmissible pathogen in a black soldier fly breeding facility.
R. D. Steven, A. E. Hamdi, S. Mohammed, L. Wein

8:45 Flies to feed the flock: a relative welfare exploration.
M. Dicke, Y. Kortsmit, A. Dörper, J. J. A. Van Loon, T. Veldkamp

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9:30 Exploring the hemolymph microbiome: an emerging lever for health management in industrial *Tenebrio molitor* rearing.
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9:45 Black soldier fly (*Hermetia illucens*) characterisation of gut microbiome.
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10:00 Enhancing insect production with innovative microbial solutions.
J. C. Paredes

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M. L. Cocato, E. G. Abimorad, L. L. Borges, D. Castellani, P. Ragozzino-Paulino, J. E. S. Sarkis

45899 - Effect of BSFL frass tea and UV light exposure on growth, nutritional quality, and microbiome of beet microgreens.
J. Zhao, C. Liu, J. Love, D. Schneider,L. Flores Renteria

46101 - The effect of insect frass application on nutritionally valuable minerals in radish.
P. Kourimsky, Z. Sel, M. J. Hudobivnik, D. Mazej, J. Folke, M. Kulma, M. Zouhar, M. Manasova, N. Ogrinc, L. Kourimska

45969 - Environmental impact of a BSF protein-based hypoallergenic dry food for dogs.
S. Silva, J. Pereira, R. Fortunato, S. Collinge, P. Quinteiro

46121 - Integrated biorefinery of insect frass for the production of biogas and artificial humic acid (AHA).
M. Psarianos, N. Marzban, C. Herrmann, G. Baliota, C. Rumbos, C. Athanassiou, O. K. Schlüter

46139 - Characterisation of black soldier fly larvae chitin: comparison of traditional chemical and subcritical fractionation.
E. Vervoort, S. Eyley, G. Hulaj, R. Smets, D. Sakellariou, W. Thielemans, M. Van Der Borght

46062 - Enzymatic processing of black soldier fly larvae oil for sustainable polyurethane foams.
S. El Moaied El Azem, L. Gandras, C. Braun, J. Sälzer, C. K. Weiss

46223 - Isolation and in vitro characterization of plant growth–promoting bacteria associated with black soldier fly frass.
G. Lomonaco, J. De Smet, F. Ijdema, J. Ceusters, F. Iannielli, A. Dolce, R. Salvia, C. Scieuzo, P. Falabella

46261 - Fortified bread with domestic cricket (*Acheta domesticus*) and marigold flower.
G. Sosa-Ortiz, E. Perez-Carrillo, V. Miron-Merida, A. Saldaña-Robles, C. Ozuna

46267 - Effect of black soldier fly larvae frass on growth and phenolic content of salad crops in pot and field trials.
C. Nicoletti, K. Bohm, S. Ulrich, J. Weghuber

46291 - Microbial community shifts in maize rhizosphere in reponse to black soldier fly frass under Indian black soil.
V. Anithaa, C. P. Mallapur, D. N. Kambrekar, A. Rajasekar, B. Dharmaraj, M. Santhoshkumar, S. R. Salakinkop, G. P. Santhosh

46408 - Biofertilizing potential *of Hermetia illucens* frass in field-grown maize.
N. Kost, I. Lopes

46406 - Growing corn using house cricket frass as a fertilizer.
M. Kulma, J. Száková, S. A. C. N. Del Prado, P. Tlustoš

46365 - Chitosan from black soldier fly puparium: extraction, characterisation and perspectives on substrate-driven variability.
C. Ligeiro, D. Murta, H. Barroso, S. Fernandes, L. Gonçalves

46294 - Techno-functionality of insect lecithin in dark chocolate.
A. Li, D. I. Okehie, D. Van De Walle, K. Dewettinck, D. A. Tzompa Sosa

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46416 - Effect of black soldier fly frass fertiliser on selected soil properties and yields of tomatoes in a degraded ferralsol.
D. Nakimbugwe, P. Kawuma, E. Opolot, G. Ssepuuya

Social events

Dine & Dance on the bank of the river

Date: ***June 9, 2026***
Starting at ***7:00*** *PM*
Location: ***Capodoglio****, Murazzi del Po Gipo Farassino 37 - Turin*

Dine & Dance on the bank of the river partecipation fee: € 42,00
Registration will be possible subject to availability, until all places are filled.

Social Dinner

The conference Social Dinner will take place at the Museo Nazionale dell'Automobile (MAUTO), one of the most renowned automotive museums in the world and a landmark of innovation and design in Turin.

Date: ***June 11, 2026***
Starting at ***8:00*** *PM*
Location: ***Museo Nazionale dell'Automobile - Torino,*** *Corso Unità d'Italia, 40 - Turin*

Conference dinner participation fee € 135,00
Registration will be possible subject to availability, until all places are filled.
A shuttle bus service will be provided for the return journey only; no shuttle service will be available for the outward journey.
Please note that the visit is included in the ticket purchased for the dinner.

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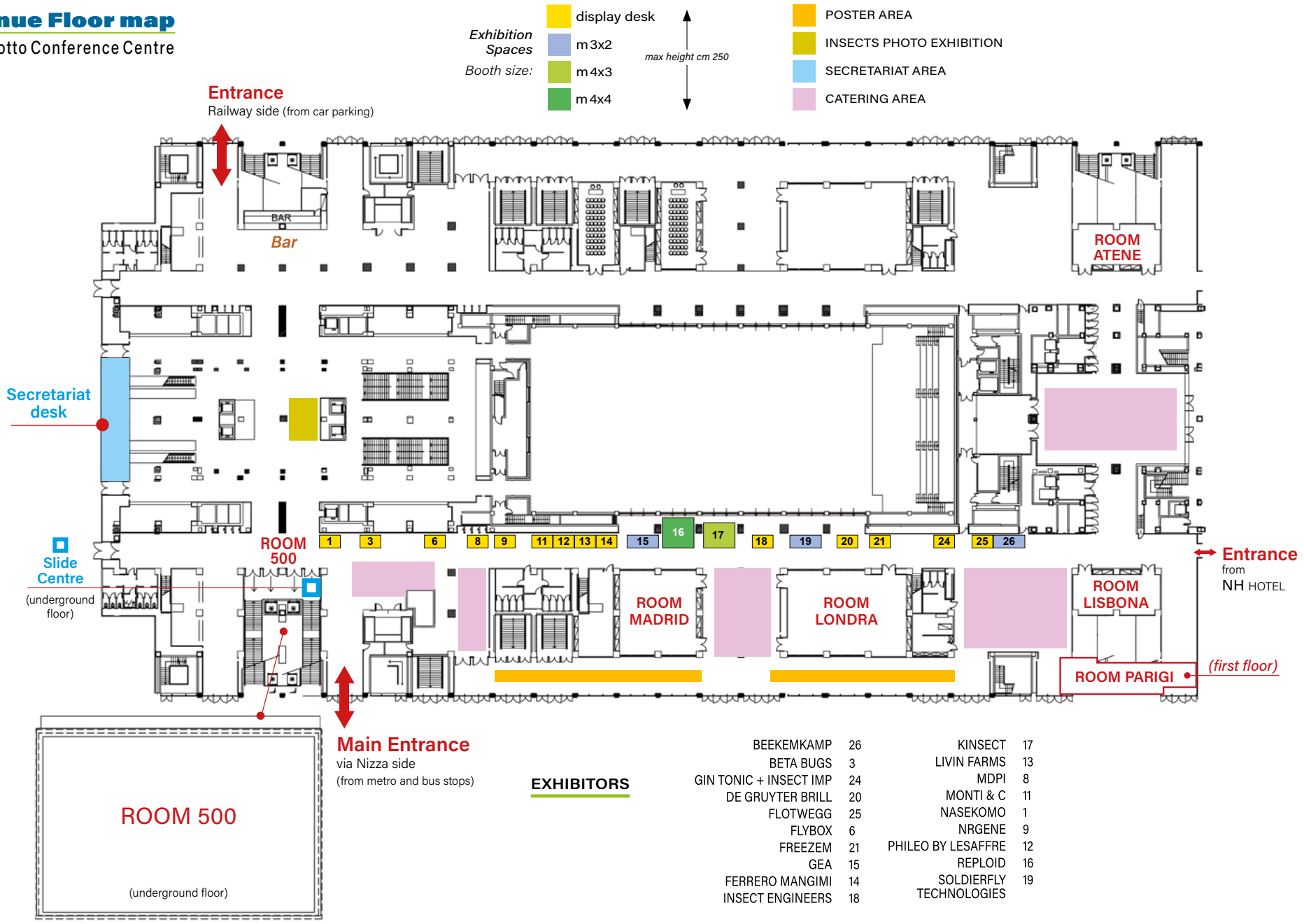
Venue Floor map

Lingotto Conference Centre



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