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European Meeting of the Working Group

# “Integrated Protection and Production in Viticulture”



International Organization for Biological and  
Integrated Control of Noxious Animals and Plants  
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Section Régional Ouest Paléarctique



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Prediction of population dynamics of the grape berry moth <i>Eupoecilia ambiguella</i> and the grapevine moth <i>Lobesia botrana</i> using the simulation model "Twickler" .....	21
<i>Astrid Baumann, Petra Hönig, Peter Schwappach, Kai Schmidt</i>	
Brazilian ground pearl <i>Eurhizococcus brasiliensis</i> : bioecology and management in vineyards .....	22
<i>Marcos Botton, Aline Nondillo, Odair Bueno e Vania Sganzerla</i>	
Can European Grapevine Moth, <i>Lobesia botrana</i> (Lepidoptera: Tortricidae) be eradicated from California? .....	23
<i>Lucia G. Varela, Monica L. Cooper, Rhonda J. Smith</i>	
South American fruit fly <i>Anastrepha fraterculus</i> damage and management in <i>Vitis vinifera</i> table grapes in southern Brazil .....	24
<i>Marcos Botton, Marcelo Zart, Ruben Machota Jr., Rodrigo Formol</i>	
Management of bitter rot and ripe rot of grapes in sub-tropical vineyards in Australia .....	25
<i>Christopher C Steel, Lindsay A Greer, Sandra Savocchia</i>	
<b>SESSION PATHOLOGY: BIOLOGY AND EPIDEMIOLOGY OF PATHOGENS, FUNGAL AND PHYSIOLOGICAL DISEASES.....</b>	<b>26</b>
Different susceptibility of European grapevine cultivars for downy mildew.....	27
<i>S. Boso and H.H Kassemeyer</i>	
Molecular, proteomic and morphological characterization of the ascomycete <i>Guignardia bidwellii</i> , agent of grape black rot.....	28
<i>Barbara Wicht, Mauro Jermini, Cesare Gessler, Orlando Petrini, Giovanni Antonio Lodovico Broggin</i>	
Characterization of fungal and bacterial communities that colonise the various wood tissues of healthy and Esca-diseased vines .....	29
<i>E. Bruez, J. Vallance, J. Gerbore, P. Lecomte, L. Guérin- Dubrana, P. Rey</i>	
Relationships between the wood necroses in Esca-affected vines and possible links with the expression of foliar symptoms.....	30
<i>Lucia Guérin-Dubrana, Nevile Maher, Julie Piot, Sylvie Bastien, Patrice Rey</i>	
New Aspects on the Source of Inoculum causing Infections of Grapevine Berries by <i>Botrytis cinerea</i> .	31
<i>Hanns-Heinz Kassemeyer, Evi Bieler, Franziska Peters</i>	
Influence of downy mildew and grape berry moth in botrytis incidence in Rioja Alavesa vineyards .....	32
<i>Díez-Navajas Ana María and Ortiz-Barredo Amaia.</i>	
Climate change and Mycotoxins in Wine .....	33
<i>Michelangelo Storari, Giovanni Al Broggin, Ilaria Pertot and Cesare Gessler</i>	
Biology and epidemiology of <i>Botryotinia fuckeliana</i> sub-populations.....	34
<i>Nicola Ciliberti, Sara Elisabetta Legler, Tito Caffi, Luca Languasco, Vittorio Rossi</i>	
<b>SESSION ENTOMOLOGY: BIOLOGY AND POPULATION DYNAMICS OF INSECTS AND MOTHS.....</b>	<b>35</b>
<i>Lobesia botrana</i> females contribute to the success of the mating disruption methods .....	36
<i>Ally Harari, Tirtza Zahavi</i>	
Performance of a wine trap device to monitor <i>Lobesia botrana</i> adult population in Murcia vineyards..	37
<i>Bruno Bagnoli, Alfonso Lucas Espadas, Josè Serrano Palao, Blanca M. Garcia Perez, Maria Pastor Juan, Arancha Puche Cascales, Maria Ortega, Paolo Sambado, Andrea Lucchi</i>	
Mating behaviour related to the intensity of vibrational signals .....	38
<i>A. Eriksson, A. Lucchi, G. Anfora, M. Virant-Doberlet, V. Mazzoni</i>	
Should Grape moth larval immunity be considered to explain resistance against natural enemies? .....	39
<i>Fanny Vogelweith, Morgane Dourneau, Denis Thiéry, Yannick Moret, Jérôme Moreau</i>	
Occurrence of earwigs in vineyards and their impact on aroma and flavour of 'Chasselas' and 'Pinot Noir' wines.....	40
<i>Jean-Philippe Burdet, Jocelyne Karp, Pascale Deneulin, Christian Linder, Patrik Kehrl</i>	
Notes on the biology and the pest status of <i>Antispila</i> sp. (Lepidopera Heliozelidae) in North-eastern Italy .....	41
<i>Carlo Duso, Mario Baldessari, Alberto Pozzebon, Elisa Ferrari, Marco Taller, Gino Angeli, Luca Mazzon, Erik J. van Nieuwerkerken</i>	
Performance of <i>Typhlodromus pyri</i> SCHEUTEN on 75 different Grape Varieties.....	42

## South American fruit fly *Anastrepha fraterculus* damage and management in *Vitis vinifera* table grapes in southern Brazil

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**Abstract:** There are approximately 84,000 ha of vineyards grown in Brazil including table and processing grapes. American varieties (Isabella, Niagara and Ives) comprise the largest part of Brazilian viticulture being destined for wine, juice and table grape. However, *Vitis vinifera* table grape cultivars are grown in the Northeast region (San Francisco Valley) for export and in the South region for internal market. In the South region, most of table grape vineyards are conducted under plastic cover due to high rain (1600 mm of rainfall a year) during the season. South American fruit fly (SAFF) *Anastrepha fraterculus* is one of the most important pests associated with the crop in the region. Insect damage can cause fall of berries when attack occurs during green pea stage or pulp destruction due to larval development during ripening period. Disease spread mainly related to rot bunches (*Glomerella* and *Botrytis*) are also associated with insect infestation. To monitor SAFF, McPhail traps baited with hydrolyzed protein are used in the vineyards. Insect control is based mainly on toxic baits, sprayed on the border of vineyards trying to reduce adult infestation from alternative hosts located near the orchards. In situation of high infestation, insecticides may be used to control adult and larvae inside berries.

**Keywords:** Toxic baits, *Botrytis*, *Anastrepha fraterculus*.