

Domenico Bosco

Curriculum vitae et studiorum

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Studi conseguiti e ruolo professionale

1988 - Laurea in Scienze Agrarie - Università di Torino

1988 - 1991 Dottorando di ricerca in Entomologia Agraria - Sede Dottorato: Università di Bologna

1992 - 93 - Borsista CNR presso l'Istituto di Virologia Vegetale del CNR di Torino

1994 - Ricercatore universitario presso il Di.Va.P.R.A. - Entomologia e Zoologia

1996 - CNR Fellowship presso CPRO-DLO, Ministero dell'Agricoltura, Wageningen, Olanda

Dal 2006 - Ricercatore Associato all'Istituto di Protezione Sostenibile delle Piante, CNR, Torino

2007 - Fulbright Scholarship presso University of California Berkeley, Department of Environmental Science and Policy

2011 - Professore associato in Entomologia Agraria

2016 - Visiting Professor, UMR 1332 Biologie du Fruit et Pathologie, INRA et Université de Bordeaux

2019 - Professore ordinario in Entomologia Agraria

Attività e progetti di ricerca

L'attività di ricerca è volta allo studio degli insetti vettori di agenti fitopatogeni.

I principali temi di indagine sono:

- Cicadellidi vettori di fitoplasmi, con particolare riguardo all'epidemiologia della flavescenza dorata della vite
- Sputacchine vettrici di *Xylella fastidiosa*
- Relazioni agente fitopatogeno-insetto con tecniche biologiche, molecolari e proteomiche
- Biologia, ecologia e fenologia di sputacchine in oliveto e vigneto
- Virus e salute dell'ape

Responsabile scientifico di progetti di ricerca dell'Unione Europea (Horizon2020 ed EFSA), Ministero dell'Università, del Consiglio Nazionale delle Ricerche, della Regione Piemonte e di convenzioni di ricerca.

Collaboratori

Bodino Nicola - Post-Doc (biologia della trasmissione di *Xylella fastidiosa*, biologia, ecologia e fenologia di sputacchine)

Molinatto Giulia - Post-Doc (virus e salute dell'ape)

Ripamonti Matteo - PhD (interazioni flavescenza dorata - insetto vettore)

Ottati Sara - PhD (virus associati a insetti vettori)

Attività didattica

Docente di Entomologia e Biotecnologie entomologiche nel Corso di Laurea Magistrale in Biotecnologie Vegetali, di Entomologia viticola nel Corso di Laurea Magistrale in Scienze Viticole ed Enologiche e di Ricerca Bibliografica e Bibliometria nella Corso di Dottorato in Scienze agrarie, forestali ed alimentari. Membro del collegio dei docenti del corso di dottorato in Scienze Agrarie, Forestali e Alimentari dell'Università degli Studi di Torino. Responsabile AQ (Assicurazione Qualità del Corso di Laurea Magistrale in Biotecnologie Vegetali dell'Università degli Studi di Torino).

Altre attività

- Membro del Comitato Tecnico su Xylella fastidiosa, Mipaaf
- Membro del Comitato Tecnico su Flavescenza dorata, Regione Piemonte
- Membro di Working groups su Xylella fastidiosa e su Directive 2000/29 Phytospasma della European Food Safety Authority (EFSA)
- EFSA external expert

English version

Education and professional position

1988 – University Degree in Agriculture – University of Torino

1989 - 1991 - PhD Student in Agricultural Entomology

1992 - 93 - Research fellowship at the Istituto di Virologia Vegetale, Italian National Research Council, CNR, Torino

1994 up to now – Research Scientist at Di.Va.P.R.A. – Entomology and Zoology

1996 - CNR fellowship at CPRO-DLO, Ministry of Agriculture, Wageningen, The Netherlands

From 2006 onwards – Research Associate at the Institute for Sustainable Plant Protection, CNR, Torino

2007 - Fulbright Scholarship at the University of California Berkeley, Department of Environmental Science and Policy

2011 – Associate Professor of Agricultural Entomology

2016 - Visiting Professor, UMR 1332 Biologie du Fruit et Pathologie, INRA et Université de Bordeaux

2019 – Full Professor of Agricultural Entomology

Research interests and current research projects

Research activity is focused on the study of insect vectors of plant pathogens.

Main research topics are:

- Leafhoppers vectors of phytoplasmas, with emphasis on grapevine Flavescence dorée epidemiology
- Spittlebugs vectors of Xylella fastidiosa
- Biology, ecology and phenology of spittlebugs in olive groves and vineyards
- Plant pathogen/vector relationships
- Viruses and health of honey bees

Scientific responsible of research projects funded by European Union (Horizon2020 and EFSA), Italian Ministry of Education and Research, Italian National Research Council, Piemonte Region, Bank foundations and private companies.

Collaborators

Bodino Nicola - Post-Doc (Xylella fastidiosa transmission biology, biology, ecology and phenology of spittlebugs)

Molinatto Giulia - Post-Doc (viruses and health of honey bees)

Ripamonti Matteo – PhD student (Flavescence dorée/vector insect interactions)

Ottati Sara – PhD student (viruses associated with vector insects)

Teaching activity

Entomology and Insect Biotechnologies (Master Degree in Plant Biotechnology)

Viticultural Entomology (Master Degree in Viticulture and Oenology)

Bibliographic search and bibliometry (PhD School in Agriculture, Forestry and Food Sciences).

Member of Professor Board of the PhD course in Agricultural, Forestry and Food Sciences, University of Torino.

PUBBLICAZIONI ISI
PUBLICATIONS ON ISI JOURNALS

1. Ripamonti M., Pegoraro M., Rossi M., Bodino N., Beal D., Panero L., Marzachì C. and **Bosco D.**, 2020. Prevalence of Flavescence Dorée Phytoplasma-Infected *Scaphoideus titanus* in Different Vineyard Agroecosystems of Northwestern Italy. *Insects*, 11(5), 301.
2. Ottati S., Persico A., Rossi M., **Bosco D.**, Vallino M., Abbà S., Molinatto G., Palmano S., Balestrini R., Galetto L., Marzachì C., 2020. Biological characterization of *Euscelidius variegatus* iflavivirus 1. *Journal of Invertebrate Pathology*, <https://doi.org/10.1016/j.jip.2020.107370>.
3. Ottati S., Chiapello M., Galetto L., **Bosco D.**, Marzachì C. and Abbà S., 2020. New viral sequences identified in the Flavescence dorée phytoplasma vector *Scaphoideus titanus*. *Viruses*, 12(3): 287.
4. Bodino, N., Cavalieri, V., Dongiovanni, C., Saladini, M. A., Simonetto, A., Volani, S., Plazio E., Altamura G, Tauro D., Gilioli G. and **Bosco D.** 2020. Spittlebugs of Mediterranean Olive Groves: Host-Plant Exploitation throughout the Year. *Insects*, 11(2), 130.
5. Bodino N., Cavalieri V., Dongiovanni C., Plazio E., Saladini M.A., Volani S., Simonetto A., Fumarola G., Di Carolo M., Porcelli F., Gilioli G., **Bosco D.**, 2019. Phenology, seasonal abundance and stage-structure of spittlebug (Hemiptera: Aphrophoridae) populations in olive groves in Italy. *Scientific Reports* www.nature.com/articles/s41598-019-54279-8
6. Cavalieri V., Altamura G., Fumarola G., di Carolo M., Saponari M., Cornara D., **Bosco D.**, Dongiovanni C., 2019. Transmission of *Xylella fastidiosa* Subspecies Pauca Sequence Type 53 by Different Insect Species. *Insects*, 10(10), 324; <https://doi.org/10.3390/insects10100324>
7. Cornara D., Ripamonti M., Morente M., Garzo E., **Bosco D.**, Moreno A., Fereres A., 2019. Artificial diet delivery system for *Philaenus spumarius*, the European vector of *Xylella fastidiosa*. *Journal of Applied Entomology*, 143:882–892. DOI: 10.1111/jen.12655
8. Galetto L., Pegoraro M., Marzachì C., Rossi E., Lucchi A., and **Bosco D.**, 2019. Potential role of the alien planthopper *Ricania speculum* as vector of Flavescence dorée phytoplasma. *European Journal of Plant Pathology*, doi.org/10.1007/s10658-019-01731-0.
9. Rossi M., Pegoraro M., Ripamonti M., Abbà S., Beal D., Giraud A., Veratti F., Malembic-Maher S., Salar P., **Bosco D.**, and Marzachì C., 2019. Genetic diversity of Flavescence dorée phytoplasmas at vineyard scale. *Applied and Environmental Microbiology*, DOI: 10.1128/AEM.03123-18.
10. Dongiovanni, C., Cavalieri, V., Bodino, N., Tauro, D., Di Carolo, M., Fumarola, G., ... & **Bosco, D.**, 2018. Plant selection and population trend of spittlebug immatures (Hemiptera: Aphrophoridae) in olive groves of the Apulia Region of Italy. *Journal of Economic Entomology*, 112(1), 67–74.
11. Galetto L., Abbà S., Rossi M., Vallino M., Pesando M., Arricau-Bouvery, ., Dubrana M.P., Chitarra W., Pegoraro M, **Bosco D.** and Marzachì C., 2018. Two phytoplasmas elicit different responses in the insect vector *Euscelidius variegatus* Kirschbaum. *Infection and immunity*, 86(5), e00042-18.

12. Arricau-Bouvery N., Duret S., Dubrana M. P., Batailler B., Desqué D., Béven L., Danet J.L., Monticone M., **Bosco D.**, Malembic-Maher S. and Foissac X., 2018. Variable membrane protein A of flavescence dorée phytoplasma binds the midgut perimicrovillar membrane of *Euscelidius variegatus* and promotes adhesion to its epithelial cells. *Applied and environmental microbiology*, 84(8), e02487-17.
13. Cornara D., **Bosco D.**, and Fereres A., 2018. *Philaenus spumarius*: when an old acquaintance becomes a new threat to European agriculture. *Journal of Pest Science*, 1-16.
14. Maggi F., **Bosco D.**, Galetto L., Palmano S. and Marzachì C., 2017. Space-Time Point Pattern Analysis of Flavescence Dorée Epidemic in a Grapevine Field: Disease Progression and Recovery. *Frontiers in Plant Science* 7:1987. doi: 10.3389/fpls.2016.01987
15. Cornara D., Cavalieri V., Dongiovanni C., Altamura G., Palmisano F., **Bosco D.**, Porcelli F., Almeida R.P.P., Saponari M., 2017. Transmission of *Xylella fastidiosa* by naturally infected *Philaenus spumarius* (Hemiptera, 2 Aphrophoridae) to different host plants. *Journal of Applied Entomology*, 141, 1-2: 80-87.
16. Cornara D., Saponari M., Zeilinger A.R., de Stradis A., Boscia D., Loconsole G., **Bosco D.**, Martelli G.P., Almeida R.P.P., Porcelli F., 2017. Spittlebugs as vectors of *Xylella fastidiosa* in olive orchards in Italy. *Journal of Pest Science*, DOI: 10.1007/s10340-016-0793-0.
17. Miliordos, D. E., Galetto, L., Ferrari, E., Pegoraro, M., Marzachì, C., & **Bosco, D.** 2017. Acibenzolar-S-Methyl May Prevent Vector-Mediated Flavescence Dorée Phytoplasma Transmission, But Is Ineffective In Inducing Recovery Of Infected Grapevines. *Pest Management Science*. Doi 10.1002/ps.4303
18. Bertin S., Cavalieri V., Gribaudo I., Sacco D., Marzachì C. and **Bosco D.**, 2016. Transmission of Grapevine virus A and Grapevine leafroll associated virus 1 and 3 by *Heliococcus bohemicus* (Hemiptera: Pseudococcidae) nymphs from plants with mixed infections. *Journal of Economic Entomology*, 109(4), 1504-1511. <http://dx.doi.org/10.1093/jee/tow120>
19. Bertin, S., Pacifico, D., Cavalieri, V., Marzachì, C., & **Bosco, D.** 2016. Transmission of Grapevine virus A and Grapevine leafroll-associated viruses 1 and 3 by *Planococcus ficus* and *Planococcus citri* fed on mixed-infected plants. *Annals of Applied Biology*, 169, 53–63.
20. Galetto, L., Miliordos, D. E., Pegoraro, M., Sacco, D., Veratti, F., Marzachì, C., & **Bosco, D.**, 2016. Acquisition of Flavescence dorée phytoplasma by *Scaphoideus titanus* ball from different Grapevine varieties. *International Journal of Molecular Sciences*, 17(9), 1563.
21. Rashidi M., Galetto L., **Bosco D.**, Bulgarelli A., Vallino M., Veratti F., Marzachì C. 2015. Role of the major antigenic membrane protein in phytoplasma transmission by two insect vector species. *BMC Microbiology*, 15: 193. DOI 10.1186/s12866-015-0522-5.
22. Pacifico, D., Galetto, L., Rashidi, M., Abbà, S., Palmano, S., Firrao, G., **Bosco D.**, Marzachì, C. 2015. Decreasing Global Transcript Levels over Time Suggest that Phytoplasma Cells Enter

Stationary Phase during Plant and Insect Colonization. Applied and Environmental Microbiology, 81(7), 2591-2602.

23. Maggi F., Galetto L., Marzachì C., **Bosco D.** 2014. Temperature-dependent transmission of “Candidatus Phytoplasma asteris” by the vector leafhopper *Macrostelus quadripunctulatus* Kirschbaum. Entomologia: 2: 202, pp87-94.
24. Saponari M., Loconsole G., Cornara D., Yokomi R.K., De Stradis A., Boscia D., **Bosco D.**, Martelli G.P., Krugner R., Porcelli F., 2014. Infectivity and Transmission of *Xylella fastidiosa* by *Philaenus spumarius* (Hemiptera: Aphrophoridae) in Apulia, Italy. Journal of Economic Entomology 107(4): 1316-1319; DOI: <http://dx.doi.org/10.1603/EC14142>
25. Rashidi M., D’Amelio R., Galetto L., Marzachì C., and **Bosco D.**, 2014. Interactive transmission of two phytoplasmas by the vector insect. Annals of Applied Biology, 165: 404-413. doi:10.1111/aab.12146
26. Galetto L., Miliordos D., Roggia C., Rashidi M., Sacco D., Marzachì C., **Bosco D.**, 2014. Acquisition capability of the grapevine Flavescence dorée by the leafhopper vector *Scaphoideus titanus* Ball correlates with phytoplasma titre in the source plant. Journal of Pest Science, 87: 671-679. ISSN: 1612-4758. DOI 10.1007/s10340-014-0593-3.
27. Roggia C., Caciagli P., Galetto L., Pacifico D., Veratti F., **Bosco D.** and Marzachì C. 2014. Flavescence dorée phytoplasma titre in field-infected Barbera and Nebbiolo grapevines. Plant Pathology 63: 31-41. Doi: 10.1111/ppa.12068
28. Galetto L., **Bosco D.** and Marzachì C. 2013. Selection of reference genes from two leafhopper species challenged by phytoplasma infection, for gene expression studies by RT-qPCR. BMC Research Notes 2013 6:409 (10 pp) doi:10.1186/1756-0500-6-409.
29. Vitali M., Chitarra V., Galetto L., **Bosco D.**, Marzachì C., Gullino M.L., Spanna F., Lovisolo C., 2013. Flavescence dorée phytoplasma deregulates stomatal control of photosynthesis in *Vitis vinifera*. Annals of Applied Biology 162: 335–346.
30. Maggi F., Marzachì C., **Bosco D.**, 2013. A stage-structured model of *Scaphoideus titanus* in vineyards. Environmental Entomology 42(2): 181-193. DOI: <http://dx.doi.org/10.1603/EN12216>.
31. Sampò S., Massa, N., Cantamessa S., D’Agostino U., **Bosco D.**, Marzachì C., Berta G., 2012. Effects of two AM fungi on phytoplasma infection in the model plant *Chrysanthemum carinatum*. Agricultural And Food Science 21(1): 39-51.
32. Palomera V., Bertin S., Rodríguez A., **Bosco D.**, Virla E., Moya-Raygoza G., 2012. Is there any genetic variation among native Mexican and Argentinian populations of *Dalbulus Maidis* (Hemiptera: Cicadellidae)? Florida Entomologist, 95(1):150-155.
33. Tsai C.W., **Bosco D.**, Daane K.M., Almeida R.P.P., 2011. Effect of Host Plant Tissue on the Vector Transmission of Grapevine leafroll-associated virus 3. Journal of Economic Entomology 104(5): 1480-1485.

34. Galetto L., **Bosco D.**, Balestrini R., Genre A., Fletcher J., Marzachì C., 2011. The Major Antigenic Membrane Protein of “*Candidatus Phytoplasma asteris*” Selectively Interacts with ATP Synthase and Actin of Leafhopper Vectors. PLoS ONE, 6(7), e22571.
35. D’Amelio R., Berta G., Gamalero E., Massa N., Avidano L., Cantamessa S., D’Agostino G., **Bosco D.**, Marzachì C., 2011. Increased plant tolerance against chrysanthemum yellows phytoplasma (‘*Candidatus Phytoplasma asteris*’) following double inoculation with *Glomus mosseae* BEG12 and *Pseudomonas putida* S1Pf1Rif. Plant Pathology, 60: 1014-1022.
36. Boursier C.M., **Bosco D.**, Coulibaly A., Negre M. 2011. Are traditional neem extract preparations as efficient as the azadirachtin A commercial formulation? Crop Protection 30: 318-322.
37. Galetto L., Marzachì C., Demichelis S. and **Bosco D.** 2011. Host plant determines the phytoplasma transmission competence of *Empoasca decipiens* (Hemiptera: Cicadellidae). Journal of Economic Entomology, 104(2): 360-366.
38. Bertin S., Picciau L., Acs Z., Alma A., **Bosco D.**, 2010. Molecular identification of the *Hyalesthes* species (Hemiptera: Cixiidae) occurring in vineyard agroecosystems. Annals of Applied Biology, 157, 435–445.
39. Gamalero E., D’Amelio R., Musso C., Cantamessa S., Pivato S., D’Agostino G., Duan J., **Bosco D.**, Marzachì C., Berta G. 2010. Effects of *Pseudomonas putida* S1Pf1Rif against chrysanthemum yellows phytoplasma infection. Phytopathology, 100: 805-813.
40. D’Amelio R., Marzachì C., **Bosco D.** 2010. Activity of benzothiadiazole on chrysanthemum yellows phytoplasma (‘*Candidatus Phytoplasma asteris*’) infection in daisy plants. Crop Protection, 29: 1094-1099.
41. Bertin S., Cavalieri V., Graziano C., **Bosco D.**, 2010. Survey of mealybug (Hemiptera: Pseudococcidae) vectors of Ampelovirus and Vitivirus in vineyards of northwestern Italy. Phytoparasitica, 38: 401-409.
42. Bertin S., Picciau L., Acs Z., Alma A., **Bosco D.**, 2010. Molecular differentiation of four *Reptalus* species (Hemiptera: Cixiidae). Bulletin of Entomological Research, 100: 551-558.
43. Daugherty M.P., **Bosco D.**, Almeida R.P.P., 2009. Temperature mediates transmission efficiency: inoculum supply and plant infection dynamics. Annals of Applied Biology, 155: 361-369.
44. Marzachì C., Coulibaly A., **Bosco D.**, 2009. Cotton virescence phytoplasma and its weed reservoir in Mali. Journal of Plant Pathology, 91 (3): 727-731.
45. Gribaudo I., Gambino G., Bertin S., **Bosco D.**, Cotroneo A., Mannini F., 2009. Monitoring the spread of viruses after vineyard replanting with heat-treated clones of *vitis vinifera* ‘Nebbiolo’. Journal of Plant Pathology, 91: 633-636.
46. Galetto L., Nardi M., Saracco P., Bressan A., Marzachì C., **Bosco D.**, 2009. Variation in vector competency depends on chrysanthemum yellows phytoplasma distribution within *Euscelidius variegatus*. Entomologia experimentalis et applicata, 131: 200–207.

47. D'Amelio R., Palermo S., Marzachì C., **Bosco D.**, 2008. Influence of Chrysanthemum yellows phytoplasma on the fitness of two of its leafhopper vectors, *Macrostelus quadripunctulatus* and *Euscelidius variegatus*. *Bulletin of Insectology* 61 (2): 349-354.
48. Tsai C.W., Chau J., Fernandez L., **Bosco D.**, Daane K.M., Almeida R., 2008. Transmission of Grapevine Leafroll-Associated Virus 3 by the Vine Mealybug (*Planococcus ficus*). *Phytopathology*, 98: 1093-1098.
49. Galetto L., Fletcher J., **Bosco D.**, Turina M., Wayadande A., Marzachì C., 2008. Characterization of putative membrane protein genes of the chrysanthemum yellows phytoplasma isolate (CY), "*Candidatus Phytoplasma asteris*". *Canadian Journal of Microbiology*, 54: 341-351.
50. Saracco P., Marzachì C., **Bosco D.**, 2008. Activity of some insecticides in preventing transmission of chrysanthemum yellows phytoplasma ('*Candidatus Phytoplasma asteris*') by the leafhopper *Macrostelus quadripunctulatus* Kirschbaum. *Crop Protection*, 27(1): 130-136.
51. Sartor C., Demichelis S., Cenis J.L., Coulibaly A., **Bosco D.**, 2008. Genetic variability of *Bemisia tabaci* (Gennadius) in the Mediterranean and Sahel Regions. *Proceedings IV Hemiptera Congress*, Ivrea, Italy, September 10th-14th. *Bulletin of Insectology*, 61(1): 161-162.
52. **Bosco D.**, Galetto L., Leoncini P., Saracco P., Raccach B., Marzachì C., 2007. Interrelationships between "*Candidatus Phytoplasma asteris*" and its leafhopper vectors (Homoptera: Cicadellidae). *Journal of Economic Entomology*, 100(5): 1504-1511.
53. D'Amelio R., Massa M., Gamalero E., D'Agostino G., Sampò S., Berta G., Faoro F., Iriti M., **Bosco D.**, Marzachì C., 2007. Preliminary results on the evaluation of the effects of elicitors of plant resistance on chrysanthemum yellows phytoplasma infection. *Proceedings First International Phytoplasma Working Group Meeting Bologna, Italy, 12-15 November*. *Bulletin of Insectology* 60(2): 317-318.
54. D'Amelio R., Marzachì C., **Bosco D.**, 2007. Double infection of "*Candidatus phytoplasma asteris*" and "*Candidatus phytoplasma vitis*" in the vector *Euscelidius variegatus* Kirschbaum. *Proceedings First International Phytoplasma Working Group Meeting Bologna, Italy, 12-15 November*. *Bulletin of Insectology* 60(2): 223-224.
55. Galetto L., **Bosco D.**, Fletcher J., Marzachì C., 2007. Production of polyclonal and monoclonal antibodies specific against membrane proteins of "*Candidatus Phytoplasma asteris*", chrysanthemum yellows isolate (CY). *Proceedings First International Phytoplasma Working Group Meeting Bologna, Italy, 12-15 November*. *Bulletin of Insectology* 60(2): 211-212.
56. **Bosco D.**, Galetto L., Leoncini P., Saracco P., Raccach B., Marzachì C., 2007. Pattern of chrysanthemum yellows phytoplasma (CYP) multiplication in three leafhopper vector species (Cicadellidae Deltocephalinae). *Proceedings First International Phytoplasma Working Group Meeting Bologna, Italy, 12-15 November*. *Bulletin of Insectology* 60(2): 227-228.

57. **Bosco D.** 2006. Molecular detection of phytoplasmas in their insect vector: a basic tool to study the epidemiology of phytoplasma-associated diseases. *Trends in Entomology* vol. 5, 19-27. Review.
58. Saracco P., **Bosco D.**, Veratti F., Marzachi C. 2006. Quantification over time of chrysanthemum yellows phytoplasma (16Sr-I) in leaves and roots of the host plant *Chrysanthemum carinatum* (Schousboe) following inoculation with its insect vector. *Physiological and Molecular Plant Pathology*, 67: 212-219.
59. **Bosco D.**, Loria A., Sartor C., Cenis J.L. 2006. PCR-RFLP identification of *Bemisia tabaci* (Hemiptera: Aleyrodidae) biotypes in the Mediterranean Basin. *Phytoparasitica*, 34(3): 243-251.
60. Galetto L., **Bosco D.**, Marzachi C. 2005. Universal and group-specific Real Time PCR diagnosis of flavescence dorée (FD, 16Sr-V), bois noir (BN, 16Sr-XII) and apple proliferation (AP, 16Sr-X) phytoplasmas from field-collected plant hosts and insect vectors. *Annals of Applied Biology*, 147, 191-201.
61. Marzachi C., **Bosco D.** 2005. Relative quantification of chrysanthemum yellows (16Sr I) phytoplasma in its plant and insect host using Real Time PCR. *Molecular Biotechnology*, 30, 117-127.
62. Demichelis S., Arnò C., **Bosco D.**, Marian D., Caciagli P. 2005. Characterization of Biotype T of *Bemisia tabaci* (Hemiptera: Aleyrodidae) associated with *Euphorbia characias* in Sicily. *Phytoparasitica*, 33(2), 196-208.
63. **Bosco D.**, Mason G., Accotto G.P. 2004. TYLCSV DNA, but not infectivity, can be transovarially inherited by the progeny of the whitefly vector *Bemisia tabaci* (Gennadius). *Virology*, 323: 276-283.
64. Bertin S., Palermo S., Marzachi C., **Bosco D.**, 2003. A comparison of molecular diagnostic procedures for the detection of aster yellows phytoplasmas (16Sr-I) in leafhopper vectors *Phytoparasitica*, 32(2), 141-145.
65. Simòn B., Cenis J.L., Demichelis S., Rapisarda C., Caciagli P., **Bosco D.**, 2003. Survey of *Bemisia tabaci* (Hemiptera:Aleyrodidae) biotypes in Italy with the description of a new biotype (T) from *Euphorbia characias* L. *Bulletin of Entomological Research*, 93: 259-264.
66. Tedeschi R., Visentin C., Alma A., **Bosco D.**, 2003. Epidemiology of apple proliferation (AP) in Northwestern Italy: evaluation of the frequency of AP-positive psyllids in naturally infected populations of *Cacopsylla melanoneura* (Homoptera Psyllidae). *Annals of applied Biology*, 142: 285-290.
67. **Bosco D.**, Palermo S., Mason G., Tedeschi R., Marzachi C., Boccardo G. 2002. DNA-based methods for the detection and the identification of phytoplasmas in insect vector extracts. *Molecular Biotechnology* 22: 9-18.

68. Tedeschi R., **Bosco D.**, Alma A. 2002: Population dynamics of *Cacopsylla melanoneura* (Homoptera Psyllidae), a vector of apple proliferation phytoplasma in Northwestern Italy: Journal of Economic Entomology 95(3): 544-551.
69. Palermo S., Arzone A., **Bosco D.** 2001. Vector-pathogen-host plant relationships of chrysanthemum yellows (CY) phytoplasma and the vector leafhoppers *Macrostelus quadripunctulatus* and *Euscelidius variegatus*. Entomologia experimentalis et applicata 99: 347-354.
70. Demichelis S., **Bosco D.**, Manino A., Marian D., Caciagli P. 2000. Presence and distribution of two biotypes of *Bemisia tabaci* (Homoptera: Aleyrodidae) in Italy. The Canadian Entomologist 132:519-527.
71. Roggero P., Accotto G.P., Ciuffo M., Lenzi R., Desbiez C., Lecoq H., **Bosco D.**, Huang X., Gu Q. 2000. First Report of Tobacco vein banding mosaic virus in China (Xian, Shaanxi Province) in *Datura stramonium* and Tobacco. Plant disease 84(10): 1152 (Disease Note).
72. Mason G., Rancati E., **Bosco D.** 2000. The effect of thiamethoxam, a second generation neonicotinoid insecticide, in preventing transmission of tomato yellow leaf curl geminivirus (TYLCV) by the whitefly *Bemisia tabaci* (Gennadius). Crop Protection 19(7): 473-479.
73. Alma A., Marzachì C., d'Aquilio M., **Bosco D.** 2000. Cyclamen (*Cyclamen persicum* L.): a dead-end host species for 16Sr-IB and -IC subgroup phytoplasmas. Annals of applied Biology, 136:173-178.
74. de Kogel W.J., **Bosco D.**, van der Hoek M., Mollema C. 1999. Effect of host plant on body size of *Frankliniella occidentalis* (Thysanoptera: Thripidae) and its correlation with reproductive capacity. European Journal of Entomology, 96: 365-368.
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