

Award Category: Lifetime Achievement

The Lifetime Achievement in IPM Award goes to an individual who has devoted his or her career to implementing IPM in a specific environment. The awardee must have devoted their career to enhancing integrated pest management in implementation, team building, and integration across pests, commodities, systems, and disciplines.

New for the 9th International IPM Symposium

The Lifetime Achievement winner will be invited to present his or other invited to present his or her own success story as the closing plenary speaker. At the same time, the winner will also be invited to publish one article on their success of their program in the Journal of IPM, with no fee for submission.

Nominator Name: Steve Nadler

Nominator Company/Affiliation: Department of Entomology and Nematology, University of California, Davis

Nominator Title: Professor and Chair

Nominator Phone: 530-752-2121

Nominator Email: sanadler@ucdavis.edu

Nominee Name of Individual: Frank Zalom

Nominee Affiliation (if applicable): University of California, Davis

Nominee Title (if applicable): Distinguished Professor and IPM specialist, Department of Entomology and Nematology, University of California, Davis

Nominee Phone: 530-752-3687

Nominee Email: fgzalom@ucdavis.edu

Attachments: Please include the Nominee's Vita (Nominator you can either provide a direct link to nominee's Vita or send email to Janet Hurley at jahurley@ag.tamu.edu with subject line "IPM Lifetime Achievement Award Vita include nominee name".)

- Summary of nominee's accomplishments (500 words or less):
- Describe the goals of the nominee's program being nominated; why was the program conducted? What condition does this activity address? (250 words or less):
- Describe the level of integration across pests, commodities, systems and/or disciplines that were involved. (250 words or less):
- Describe the team building process; how did this person being nominated; get partners involved? Education and awareness are essential in an IPM program. (250 words or less)
- What outcome describes the greatest success of the program? (250 words or less)
- Provide evidence of change in knowledge, skills, behavior, or condition because of the program/individual. (250 words or less)

Nominee website: <http://ucanr.edu/sites/zalomlab/>

Summary of nominee's accomplishments (500 words or less):

Frank Zalom, distinguished professor of entomology and extension IPM specialist at the University of California, Davis, is a past president of the 7000-member Entomological Society of America (ESA). Hired as Extension IPM Coordinator in 1980, he directed the University of California Statewide IPM Program (UCIPM) for 16 years through 2002. He co-chaired the Association of Public and Land-grant Universities' (APLU) National IPM Committee for 16 years through 2015. The precursor of this committee, of which he was a member, organized the first four International IPM Symposia. As a faculty member of the Department of Entomology and Nematology, he continues to develop major agricultural IPM programs for California's specialty crops.

Among his many accomplishments:

1. A nationally known and recognized IPM leader, Zalom co-chaired the APLU National IPM Committee from 1999-2015 and was appointed to a number of ad hoc committees of agencies and organizations that shaped IPM policy and directions. He served as IPM representative to the ESCOP Science and Technology Committee from 2003-2015; USDA-NIFA Western Region IPM Competitive Grants Program Manager from 2006-2015; member of the Board of Directors for the USAID IPM CRSP from 2001-2005.
2. Served as director of the UCIPM program for 16 years that set the standard, nationally and globally, for subsequent IPM programs.
3. Appointed the first Editorial Board chair of ESA's new Journal of Integrated Pest Management.
4. Founding member of the steering committee for the USDA-NIFA Pest Management Information Platform for Extension (ipmPIPE), a new effort to assess risk of disease and insect outbreaks.
5. Co-principal investigator on the original (2002) USDA-CSREES-IREECGP grant for \$3.49 million that funded the Western IPM Center, located at UC Davis, one of four such centers nationally.
6. Numerous leadership roles in the Entomological Society of America, including president in 2014, member of ESA's presidential line for 4 years and Governing Board member for 4 years. He also served as the president of the Entomological Foundation and first chair of ESA's new Science Policy Committee.
7. Authored more than 350 peer-reviewed journal articles, book chapters, and books, and has served as major professor for 12 Ph.D. students and seven master's students.
8. Recipient of multiple awards at UC Davis for his outstanding mentoring, especially of women students and post-docs.
9. Established major agricultural IPM Programs for a number of tree, vine, small fruit and vegetable crops
10. Teaches Arthropod Pest Management at UC Davis
11. Co-chaired the International Entomology Leadership Summit in 2016 in Orlando, Fla.
12. Highly recognized for his work and collaborations, Zalom is a fellow of the California Academy of Sciences, Entomological Society of America, American Association for the Advancement of Science, and Royal Entomological Society (London). Previous IPM awards include the Entomological Foundation's IPM Team Award and Excellence in IPM Award, and the Perry Adkisson Distinguished Speaker Award from Texas A&M University. He is the only entomologist to be awarded the BY Morrison Memorial Medal for horticultural research from USDA-ARS and the American Society for Horticultural Science.

Describe the goals of the nominee's program being nominated; why was the program conducted? What condition does this activity address? (250 words or less):

Frank Zalom's program goals are four-fold (1) to solve pest control problems using effective, biologically-based pest management approaches; (2) to provide IPM leadership at the regional, state, national and international levels, (3) to provide a vigorous research program in entomology, especially related to IPM and invasive species; and (4) to educate a new generation of IPM practitioners through effective undergraduate teaching and graduate student mentoring.

He believes that advancing the science and implementation of IPM will reduce the impact of pests and pest control on agriculture and the environment. This is critical in California. "California agriculture is a \$42.6 billion industry that generates at least \$100 billion in related economic industry," according to the California Department of Food and Agriculture, and California grows more than a third of the country's vegetables and two-thirds of the nation's fruits and nuts.

He pursues his goals through a combination of fundamental studies related to pest biology, physiology, and community ecology; problem-focused, hypothesis-driven management research; and community-oriented extension efforts. His research focuses on exploiting weaknesses in the biology of a pest species and its niche in the agroecosystem or the broader landscape. He builds multidisciplinary research and outreach teams to pursue innovative ideas needed to solve major IPM challenges. His lab's research has addressed seventeen invasive species introductions, among them southern green stink bug, silverleaf whitefly, glassy-winged sharpshooter, olive fly, invasive saltcedar, light brown apple moth, spotted wing drosophila, and most recently European grape vine moth, brown marmorated stink bug and bagrada bug.

Describe the level of integration across pests, commodities, systems and/or disciplines that were involved. (250 words or less):

UCIPM Director: Frank Zalom established a statewide, interdisciplinary IPM team of Cooperative Extension Farm Advisors, and helped establish other activities of the program including the UCIPM website, still one of the most highly utilized online resources for IPM information. He personally oversaw development of the website's online degree-day tool, and the database of degree-day models that remains widely used by California's county-based extension staff and crop consultants. He interacted broadly with research colleagues, extension educators, growers, consultants, environmental groups, and public agency personnel in California, nationally and internationally to advance the science and use of IPM through building or contributing to coalitions, rather than through individual actions.

IPM Leadership: As a member of the ESCOP Pest Management Strategies Subcommittee, he co-organized the first 4 National IPM Symposia/Workshops, respectively targeting integration of disciplines; research and extension; academics, agencies and the private sector; and agriculture and urban pests. He co-chaired the APLU National IPM Committee for 16 years to help facilitate communication between the Land Grant IPM community and Federal agencies. He was co-principal investigator of the original \$3.49 million USDA-CSREES-IREECGP grant that funded the Western IPM Center.

Specialty Crops IPM: His laboratory has helped establish biologically-based IPM programs for arthropod pests of California tree, vine, small fruit and vegetable crops valued at over \$19 billion. Specific programs he developed over the last 38 years have been documented to reduce insecticide use, pesticide runoff into surface waters, and effective management of several key and invasive pests of specialty crops.

**Describe the team building process; how did this person being nominated; get partners involved?
Education and awareness are essential in an IPM program. (250 words or less)**

As Director of the UCIPM Program, Zalom formed an effective interdisciplinary team of scientists dedicated to implementing IPM in California. His awareness, appreciation and recognition of others' expertise, and his willingness to assume organizational or leadership roles are key factors that enabled him to establish numerous partnerships to advance IPM. These partnerships have led to lifelong working relationships between many researchers and extension educators, academics and agency professionals, and individuals in the public and private sectors within California, nationally and internationally that continue to advance the science and implementation of. His integrity, service and respect for all are legendary.

He is highly respected due to (1) his outstanding leadership and public service at the regional, state, national and international levels; (2) his stellar academic accomplishments in agricultural sustainability and IPM; (3) his work ethic, service, courage and integrity, all driven by his insatiable curiosity and passion to solve problems in the agricultural landscape; and (4) his tireless advocacy for IPM as THE way to address pest concerns in a sustainable, economical and environmentally-acceptable manner.

Zalom has been described as a natural leader, well respected by his peers, as shown by his election as president of the Entomological Society of America, his establishment of ESA's Science Policy Program, and his activism that resulted in the International Entomology Leadership Conference held within the International Congress of Entomology last year that was organized to identify grand challenges facing communities worldwide for which the discipline can make a unique and powerful contribution.

What outcome describes the greatest success of the program? (250 words or less)

Known globally for his IPM leadership, Zalom returned to California as Extension IPM Coordinator in 1986 and became UCIPM Program Director in 1986. UCIPM flourished under his direction and many aspects for which the program is renown today were initiated at that time. Before leaving the program in 2002 to return full time to his academic appointment at UC Davis, he received a Joint Resolution from the California State Legislature 'for his contributions to California Agriculture, particularly in the area of advancing IPM'.

Zalom co-chaired the APLU's National IPM Committee from 1999-2015. This committee of IPM leaders from across the country helped establish a vision for communication and collaboration between universities and agencies to advance IPM for agricultural and urban stakeholders, and it played a key role in conceptualizing the Regional IPM Centers. The ESCOP Pest Management Strategies Subcommittee that preceded the National IPM Committee, with Zalom as a member, conceived and organized the first four National IPM Symposia/Workshops which have become the International IPM Symposia that now regularly bring IPM professionals together from around the world to showcase IPM efforts and impacts globally. That subcommittee also helped organize the National IPM Forum held in 1992.

His research programs have been widely adopted in California resulting in reduced insecticide use, less pesticide runoff into surface waters, and effective pest management that have been documented in several peer-reviewed studies, and most of his graduate students have become successful IPM researchers and extension educators around the world.

Provide evidence of change in knowledge, skills, behavior, or condition because of the program/individual. (250 words)

The UCIPM Program that Zalom directed for 16 years is considered the “gold standard” of IPM information in the world. He received a Joint Resolution from the California State Legislature lauding his efforts to advance IPM.

The ESCOP Pest Management Strategies Subcommittee of which he was a member and its successor, the National IPM Committee that Zalom co-chaired for 16 years, initiated and organized the National IPM Symposia/Workshops that became the International IPM Symposium, and helped conceptualize the Regional IPM Centers. Zalom was co-principal investigator of the first grant that funded the Western IPM Center. All of these are ongoing and inarguably successful even today.

Zalom’s collaborative research and extension efforts on almonds, the largest US tree crop as measured by acreage and value, is perhaps the best example of his academic IPM efforts and include some of the best-documented examples in the literature. Naval orangeworm damage was reduced from 8.8 percent in 1978 to less than 1.5 percent by 1990, while reducing insecticide use by over 40 percent on an industrywide basis. Multiple miticide applications applied to almonds in the 1980s were reduced to once a season by the late 1990s through similar efforts. Organophosphate dormant sprays applied to California orchards were reduced by 90% through a multidisciplinary research effort led by Zalom, bringing the Sacramento River into compliance with the Clean Water Act.

Zalom led or partnered with collaborators to develop successful IPM programs for seventeen invasive pests of specialty crops in California during the last 30 years.

Curriculum Vitae

Frank G. Zalom

Contact Information

Department of Entomology and Nematology
University of California, Davis
One Shields Avenue
Davis, CA 95616-8512

http://entomology.ucdavis.edu/Faculty/Frank_G_Zalom/
<http://ucanr.edu/sites/zalomlab/>

Phone: (530) 752 3687
Fax: (530) 752 1537
Email: fgzalom@ucdavis.edu

Education

Ph.D. University of California, Davis, 1978 (Entomology)
M.S. Arizona State University, 1974 (Zoology/Ecology)
B.S. Arizona State University, 1973 (Zoology/Ecology)

Professional Positions

1980-Present Distinguished Professor, Entomologist in the Agricultural Experiment Station, and Extension Entomologist, Dept. of Entomology, UC Davis
1986-Present Professor, International Agricultural Development Graduate Group
2004-2013 USDA-NIFA Regional IPM Grants Program Manager
1986-2002 Director, UC Statewide IPM Program
1984-1986 Associate Director for Research, UC Statewide IPM Program
1980-1987 Extension IPM Coordinator – University of California Cooperative Extension
1979-1980 Assistant Professor, Dept. of Entomology, Fisheries, and Wildlife, University of Minnesota, St. Paul

Awards and Honors

2017 *B.Y. Morrison Memorial Lecture and Medal* - USDA-ARS and American Society for Horticultural Science
2017 UC Davis Academic Senate – *Distinguished Scholarly Public Service Award*
2017 Texas A&M University – *Perry Lee Adkisson Distinguished Speaker Award*
2016 UC Cooperative Extension - *Outstanding Team Distinguished Service Award (European Grapevine Moth Team)*
2015 *Fellow* – Royal Entomological Society, London
2015 *President* – Entomological Foundation
2013-14 *Vice President (2013) and President (2014)* - Entomological Society of America
2013 *Outstanding Mentor Award* - UC Consortium for Women and Research
2011 *C.W. Woodworth Award* – Pacific Branch Entomological Society of America
2010 *Fellow* - American Association for the Advancement of Science (AAAS)
2010 Entomological Society of America – *Excellence in IPM Award*
2009 International IPM Excellence Award, 6th International IPM Symposium
2008 *Fellow* - Entomological Society of America
2008 Entomological Society of America - *IPM Team Award*
2008 California Department of Pesticide Regulation - *IPM Innovator Award*
2007 USDA-FAS/Ministry of Agriculture of the People's Republic of China – led a Scientific Exchange Team on 'IPM Opportunities for the U.S. and China'

2004 UC Davis - *James H. Meyer Award for Teaching, Research and Service*

2002 Entomological Society of America - *Recognition Award in Entomology*

2001-02 *President - Pacific Branch, Entomological Society of America* – Elected by membership

2001 Friends of Agricultural Extension - *Outstanding Cooperative Extension Specialist*

2001 CA State Legislature Joint Resolution – ‘*Recognizing Zalom's Contributions to CA Agriculture*’

1999 UC Cooperative Extension Assembly Council - *Outstanding Administration Award*

1997 Almond Board of California - *Outstanding Research Award*

1995 *Governor's Exotic Pest Task Force* – appointed by California Governor Pete Wilson

1995 *Visiting Fellow* - Victoria (Australia) Dept. of Agric., Institute for Horticultural Research

1992 Entomological Society of America - *Outstanding Achievement Award in Extension Entomology*

1992-93 U.S. State Department - *Fulbright Senior Research Fellowship, Spain*

1991 UC Cooperative Extension Assembly Council - *Creative Teamwork Award*

1990 *Fellow* - California Academy of Sciences

1989 American Registry of Professional Entomologists - *Excellence in Entomology Award*

1989 *National Academy of Sciences Interacademy Research Exchange Award* - Institute of Experimental Phytopathology and Entomology, Bratislava, Slovakia, 3 months

1986 UC Cooperative Extension Assembly Council - *Outstanding Specialist Research Award*

1983-89 *Secretary/Treasurer* - Entomological Society of America, Pacific Branch

Recent and Notable Professional Service

National:

2015-Present Chair (2015) and Member, Entomological Society of America Science Science Policy Committee

2012-15 Governing Board, Entomological Society of America

2013-14 Chair, Scholarly Journals Committee, Council of Scientific Society Presidents

2012-13 Co-Chair, Research Subcommittee, APLU (Association of Public & Land –Grant Universities) Board on Agriculture Assembly Working Group on IPM

2009-Present Founding Member and member of Steering Committee, *IPM Voice*

2003-Present Co-Chair and ESCOP Technical Advisor, APLU, ESCOP/ECOP/USDA National IPM Committee.

2003-Present ESCOP Science and Technology Committee.

2006-12 Pest Information Platform for Education and Extension Steering Committee, USDA-NIFA.

2010-12 APLU Science Roadmap for Food and Agriculture; participated in document development

2009-11 Founding Member and Editorial Board Chair, *Journal of Integrated Pest Management*

2004-06 Pest Management Alternatives Program, Review Panel USDA-CSREES.

2002-03 Chair, Organizing Committee, 4th National IPM Symposium/ Workshop

1999-03 Co-Chair and ECOP Technical Advisor, APLU, ESCOP/ECOP/USDA National IPM Committee.

2000-03 Western Region Pest Management Center Steering Committee, USDA.

1997-98	CAST Task Force, Feasibility of Prescription Pesticide Use in the United States
1994	Co-Chair, Organizing Committee, 2 nd National IPM Symposium/ Workshop
1991-92	Organizing Committee, USDA/EPA National IPM Forum
1991	Organizing Committee, USDA/EPA, Wingspread Conference on Pest Management
1987-88	Organizing Committee, 1 st National IPM Symposium/ Workshop
1985-86	Co-Organizer, 1 st National Extension Workshop on Electronic Technology

International:

2016	Co-Chair, International Entomology Leadership Summit, Orlando, FL
2016	Co-Organizer, Summit on the <i>Aedes aegypti</i> Crisis in the Americas, Maceio, Brazil
2015	CONICYT-Chile, Sixth National Call for Research Centers in Priority Areas, Panel Member
2013, 2014	European Community. Food, Agriculture and Fisheries Biotechnology Competitive Grants Program, Panel Member
2011	OECD (Organization for Economic Co-operation and Development) Workshop on Integrated Pest Management, Berlin, Germany. One of 3 US representatives invited by the US Environmental Protection Agency.
2010	Lectures in Integrated Pest Management MS course at University of Lleida, Spain
2010-14	USAID, IPM Cooperative Support Project for Central Asia , co-investigator with colleagues from Michigan State University.
2005-09	USAID, IPM Cooperative Support Project for Central Asia , co-investigator with colleagues from Michigan State University.
2008	Zhejiang University, Hangzhou, China, led external review of the Institute of Agriculture and Environmental Sciences section Biological Disasters and Their Control
2008	Global IPM Forum, co-facilitator of IPM Extension/Outreach section area
2001-05	USAID, Board of Directors, IPM Cooperative Research Support Project.
1994-00	USAID, Pest Management Advisory Committee

State:

2011-13	CA Dept. of Food and Agriculture, 21 st Century Vision Planning Committee
2000-07	Sacramento River Watershed Group
1994-02	CA Dept. of Pesticide Regulation, Pest Management Advisory Committee
1997-2000	CA Dept. of Pesticide Regulation, Methyl Bromide Task Force
1994-96	Governor's Exotic Pest Eradication Task Force
1994-96	CA Dept. of Pesticide Regulation, California Environmental Technology Partnership Program Steering Committee

Number of PhDs Supervised:

Served as Major Professor for 12 PhD students and 6 MS (thesis option) students at UC Davis. He is currently supervising one PhD student at UC-Davis and is a co-advisor for a PhD student at Michigan State University.

Publications:

338 Journal publications and book chapters

395 Technical proceedings, extension, trade journal and commodity group publications

2 US Patents

Journal articles and book chapters:

Farnsworth, D., M. Bolda, R. Goodhue, J. Williams, and F. Zalom. 2017. Economic analysis of revenue losses and control costs associated with the spotted wing drosophila (*Drosophila suzukii*) in the California raspberry industry. Pest Manage. Sci. 73(6): 1083-1090.
<http://onlinelibrary.wiley.com/doi/10.1002/ps.4497/epdf>

Zalom, F.G., E. Nunez, and R.A. Baldwin. 2017. Almond pests, Chapter 16, pp. 375-406. In Almonds: Botany, Production and Uses, R. Socias and T. Gradziel, eds. CABI Press. (In press)

Leppla, N.C., M.W. Johnson, J.L. Merritt, and F.G. Zalom. 2017. Applications and trends in commercial biological control for arthropod pests of tomato. In Sustainable Management of Arthropod Pests of Tomato, W. Wakil, T.M. Perring, and G. Brust, eds. Elsevier Inc. (In Press)

Tognon, R., J. Sant'Ana, Q.H. Zhang, J.G. Millar, J.R. Aldrich, and F.G. Zalom. 2016. Volatiles mediating parasitism of *Euschistus conspersus* and *Halyomorpha halys* eggs by *Telenomus podisi* and *Trissolcus erugatus*. J. Chem. Ecol. 42:1016
<http://link.springer.com/article/10.1007/s10886-016-0754-3>

Bahder, B.W., F.G. Zalom, and M.R. Sudarshana. 2016. Phylogeny of geminivirus coat protein sequences and digital PCR aid in identifying *Spissistilus festinus* (Say) as a vector of Grapevine red blotch-associated virus. Phytopathology 100(10): 1223-1230.

Bahder, B.W., F.G. Zalom, and M.R. Sudarshana. 2016. An evaluation of flora adjacent to wine grape vineyards for the presence of alternative host plants of Grapevine red blotch-associated virus. Plant Dis. 100: 1571-1574.

Markle, J., F. Niederholzer, and F. Zalom. 2016. Evaluation of spray application methods for navel orangeworm control in almonds. Pest Manage. Sci. 72(12): 2339-2346.

Maredia, K., G. Bird, D. Landis, F. Zalom, J. Landis, M. Kennelly, M. El-Bouhssini, N. Saidov, and M. Aitmatov. 2016. Ecologically-based Integrated Pest Management Programs for Food Security Crops in Central Asia. Chapter 13, pp. 154-172, In: Environmental Crises in Central Asia: From Steppes to Seas, from Deserts to Glaciers, E. Freeman and M. Neuzil, eds. Routledge Books, London. 196 pp.

Scheidler, N.H., Liu, C., Hamby, K.A., Zalom, F.G., and Syed, Z. 2015. Volatile codes: Correlation of olfactory signals and reception in *Drosophila*-yeast chemical communication. Nature Sci. Repts. 5: 14059. <http://doi.org/10.1038/srep14059>

Hamby, K.A., J.D. Henderson, H.B. Scher, and F.G. Zalom. 2015. Organophosphate insecticide activity reduced when mixed with copper(II) hydroxide in peach dormant sprays. J. Entomol. Sci. 50(4): 284-294.

Bahder, B.W., Barrantes, L.D., Hamby, K.A., Zalom, F.G. and Walsh, D.B. 2015. Microsatellite variation of two Pacific coast *Drosophila suzukii* (Diptera: Drosophilidae) populations. Environ. Entomol. 44(5): XX; DOI: <http://dx.doi.org/10.1093/ee/nvv117>

Bahder, B.W. M.L. Bollinger, M.R. Sudarshana, and F.G. Zalom, 2015. Preparation of mealybugs (Hemiptera: Pseudococcidae) for genetic characterization and morphological examination. J. Insect Sci. 15(1); 104: DOI: <http://dx.doi.org/10.1093/jisesa/iev086>

Loeb, G., V. Walton, and F. Zalom. 2015. Mites, pp. 149-156, In Compendium of grape diseases, disorders and pests, 2nd edition. Wilcox, W., Gubler, W.D., and Uyemoto, J.K. APS Press, St. Paul, MN.

Murphy, K.A., T.R. Unruh, L.M. Zhou, F.G. Zalom, P.W. Shearer, E.H. Beers, V.M. Walton, B. Miller, and J.C. Chiu. 2015. Using comparative genomics to develop a molecular diagnostic for the identification of an emerging pest *Drosophila suzukii*. Bull. Entomol. Res. 105(3):364-72. doi: 10.1017/S0007485315000218

Hamby, K.A., N.L. Nicola, F.J.A. Niederholzer, and F. G. Zalom. 2015. Timing spring insecticide applications to target both *Amyelois transitella* and *Anarsia lineatella* in almond orchards. J. Econ. Entomol. 108: 683-693. doi: 10.1093/jee/tov021

Zhan, Y., S. Fan, M. Zhang, and F. Zalom. 2015. Modeling the effect of pyrethroid use intensity on mite population density for walnuts. Pest Manage. Sci. 71: 159-164. DOI: 10.1002/ps.3799

Goodell, P.B., F.G. Zalom, J.F. Strand, C.A. Wilen, and K. Windbiel-Rojas. 2014. Over 35 years, integrated pest management has reduced pest risks and pesticide use. Calif. Agric. 68(4): 153-157.

Philips, C.R., Kuhar, T.P., Hoffmann, M.P., Zalom, F.G., Hallberg, R., Herbert, D.A., Gonzales, C., Elliott, S. 2014. Integrated Pest Management. I In: Encyclopedia of Life Sciences. John Wiley & Sons, Ltd: Chichester. DOI: 10.1002/9780470015902.a0003248.pub2

Harris, D.W., K.A. Hamby, H.E. Wilson, and F.G. Zalom 2014. Seasonal monitoring of *Drosophila suzukii* (Diptera: Drosophilidae) in a mixed production system. J. Asia-Pacific Entomol. 17: 857-864.

Sagri, E., M. Reczko, M.E. Gregoriou, K.T. Tsoumani, N.E. Zygouridis, K.D. Salpea, F.G. Zalom, J. Ragoussis and K.D. Mathiopoulos, 2014. Olive fly transcriptomics analysis implicates energy metabolism genes in spinosad resistance. BMC Genomics. 15: 714. doi: 10.1186/1471-2164-15-714.

Hamby, K.A., M.P. Bolda, M.E. Sheehan, and F.G. Zalom. 2014. Seasonal monitoring for *Drosophila suzukii* (Diptera: Drosophilidae) in California commercial raspberries. Environ. Entomol. 43: 1008-1018.

Zalom, F.G., and N.L. Nicola. 2014. Controlling the first generation of navel orangeworm in almonds. Acta Hort.. 1028:185-200.

Schuster, D.J., F.G. Zalom, and D. Gilreain. 2014. Arthropod pests, pp. 120-127, In Compendium of tomato diseases and pests, 2nd edition. Jones, J.B., Zitter, T.A., Momol, T.M., and Miller, S.A. APS Press, St. Paul, MN.

Zalom, F.G., W.J. Bentley, L.G. Varela, L.J. Bettiga, and D.R. Haviland. 2013. Spider mites, Chapter 79, pp. 405-421, In Grape pest management, Bettiga, L.J., ed. Univ. California Agric. Natur. Resourc. Publ. 3343, Richmond, CA.

Varela, L.G., M.L. Cooper, and F.G. Zalom. 2013. European grapevine moth, Chapter 66, pp. 346-351, In Grape pest management, Bettiga, L.J., ed. Univ. California Agric. Natur. Resourc. Publ. 3343, Richmond, CA.

Zalom, F.G., R.J. Smith, and M.V. Norton. 2013. Cutworms, Chapter 65, pp. 341-345, In Grape pest management, Bettiga, L.J., ed. Univ. California Agric. Natur. Resourc. Publ. 3343, Richmond, CA.

Zalom, F.G., L.J. Bettiga, and R.J. Smith. 2013. Branch and twig borer, Chapter 51, pp. 307-310, In Grape pest management, Bettiga, L.J., ed. Univ. California Agric. Natur. Resourc. Publ. 3343, Richmond, CA.

Villamil, S.C., E.E. Lewis, and F.G. Zalom. 2013. Seasonal pheromone trap catches of male *Bactrocera oleae* (Diptera: Tephritidae) in northern California: Asynchrony with host (olive

tree) phenology? *Environ. Entomol.* 42: 1356-1362. DOI: <http://dx.doi.org/10.1603/EN13093>

Chiu, J.C., X. Jiang, L. Zhao, C.A. Hamm, J.M. Cridland, P. Saelao, K.A. Hamby, E.K. Lee, R.S. Kwok, G. Zhang, F.G. Zalom, V.M. Walton, and D.J. Begun. 2013. Genome of *Drosophila suzukii*, the spotted wing drosophila. *G3: Genes, Genomes, Genetics*. <http://dx.doi.org/10.1534/g3.113.008185>

Lee, J.C., P.W. Shearer, L.D. Barrantes, E.H. Beers, H.J. Burrack, D.T. Dalton, A.J. Dreeves, L.J. Gut., K.A. Hamby, D.R. Haviland, R. Isaacs, A.L. Nielsen, T. Richardson, C.R. Rodriguez-Saona, C.A. Stanley, D.B. Walsh, V.M. Walton, W.L. Yee, F.G. Zalom, and D.J. Bruck. 2013. Trap designs for monitoring *Drosophila suzukii* (Diptera: Drosophilidae). *Environ. Entomol.* 42: DOI: <http://dx.doi.org/10.1603/EN13148>

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