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Current Position

In January 2018, Steven Koike left the University of California Cooperative Extension and became the Director of TriCal Diagnostics in Hollister, CA. Koike joined UCCE in 1989 as the Plant Pathology Farm Advisor, where he operated a diagnostic lab and conducted a research and education program on diseases of vegetable, fruit, and ornamental crops. During his 28-year extension career he published over 1,000 scientific and extension publications, including his 450-page book *Vegetable Diseases: A Color Handbook*. He presented research at many national and international conferences, gave 374 extension talks, and organized and hosted 88 extension meetings and workshops. Koike has received numerous awards and is the recipient of the Excellence in Extension Plant Pathology award from APS. He is the recipient of the 2018 Outstanding Contribution to Agriculture Award from California Association of Pest Control Advisors. Koike's position with TriCal Diagnostics focuses on operating a diagnostic lab, testing soil for pathogens, conducting research on soilborne and foliar pathogens, and providing plant problem information to clientele who grow and work with various agricultural commodities throughout and beyond California.

Education

M.S. Plant Protection & Pest Management. University of California, Davis. 1980.
B.S. Plant Science, Plant Pathology specialization. Graduated with High Honors.
University of California, Davis. 1978.

Recent Peer-Reviewed Scientific Publications

Daugovish, O., Howell, A., Fennimore, S., Koike, S., Gordon, T., and Subbarao, K. 2016. Non-fumigant treatments and their combinations affect soil pathogens and strawberry performance in southern California. *International Journal of Fruit Science*. <http://www.tandfonline.com/doi/full/10.1080/15538362.2016.1195314>.

Koike, S. T., Bettiga, L. J., Nguyen, T. T., and Gubler, W. D. 2016. First report of *Cylindrocladiella lageniformis* and *C. peruviana* as grapevine pathogens in California. *Plant Disease* 100:1783-1784.

Triky-Dotan, S., Westerdahl, B., Martin, F. N., Subbarao, K. V., Koike, S. T., and Ajwa, H. A. 2016. Fumigant dosages below maximum label rate control some soilborne pathogens. *California Agriculture* 70:130-136.

Shi, A. N., Mou, B. Q., Correll, J., Koike, S. T., Motes, D., Qin, J., Weng, Y. J., and Yang, W. 2016. Associated analysis and identification of SNP markers for *Stemphylium* leaf spot (*Stemphylium botryosum* f. sp. *spinacia*) resistance in spinach (*Spinacia oleracea*). *American Journal of Plant Sciences* 7:1600-1611.

Gordon, T. R., Daugovish, O., Koike, S. T., Islas, C. M., Kirkpatrick, S. C., Yoshisato, J. A. 2016. Options for management of Fusarium wilt of strawberry in California. *International Journal of Fruit Science*. <http://dx.doi.org/10.1080/15538362.2016.1219294>.

Choudhury, R. A., Koike, S. T., Fox, A. D., Anchieta, A., Subbarao, K. V., Klosterman, S. J., and McRoberts, N. 2016. Season-long dynamics of spinach downy mildew determined by spore trapping and disease incidence. *Phytopathology* 106:1311-1318.

Kunjetti, S. G., Anchieta, A., Martin, F. N., Choi, Y.-J., Thines, M., Michelmore, R. W., Koike, S. T., Tsuchida, C., Mahaffee, W., Subbarao, K. V., and Klosterman, S. J. 2016. Detection and quantification of *Bremia lactucae* by spore trapping and quantitative PCR. *Phytopathology* 106:1426-1437.

Koike, S. T. 2016. Diseases of Stock. Book chapter in: R. J. McGovern, and W. H. Elmer (eds.), *Handbook of Florist's Crops Diseases*. Springer International Publishing. Berlin, Germany.

Choudhury, R. A., Koike, S. T., Fox, A. D., Anchieta, A., Subbarao, K. V., Klosterman, S. J., and McRoberts, N. 2017. Spatiotemporal patterns in the airborne dispersal of spinach downy mildew. *Phytopathology* 107:50-58.

Bull, C. T., Koike, S. T., Huerta, A. I., Jardini, T. M., Mauzey, S. J., Rubio, I., and Zaccaroni, A. B. 2017. Plant Pathogenic Prokaryotes. Book chapter 5 (pages 81-101) in: B. H. Ownley, and R. N. Trigiano (eds.), *Plant Pathology Concepts and Laboratory Exercises*. 3rd edition. CRC Press, Taylor & Francis. Boca Raton, Florida.

Bull, C. T., and Koike, S. T. 2017. Detection of *Pseudomonas* pathogens from crucifer seeds. Book chapter 24 (pages 165-172) in: M. Fatmi, R. R. Walcott, and N. W. Schaad (eds.), *Detection of Plant-Pathogenic Bacteria in Seed and Other Planting Material*. Second edition. APS Press. St. Paul, Minnesota.

Koike, S. T., and Gilbertson, R. L. 2017. Detection of *Xanthomonas campestris* pv. *vitians* in lettuce seeds. Book chapter 25 (pages 173-178) in: M. Fatmi, R. R. Walcott, and N. W. Schaad (eds.), Detection of Plant-Pathogenic Bacteria in Seed and Other Planting Material. Second edition. APS Press. St. Paul, Minnesota.

Koike, S. T., Alger, E. I., Ramos Sepulveda, L., and Bull, C. T. 2017. First report of bacterial leaf spot caused by *Pseudomonas syringae* pv. *tomato* on kale in California. Plant Disease 101:504.

Henry, P. M., Kirkpatrick, S. C., Islas, C. M., Pastrana, A. M., Yoshisato, J. A., Koike, S. T., Daugovish, O., and Gordon, T. R. 2017. The population of *Fusarium oxysporum* f. sp. *fragariae*, cause of Fusarium wilt of strawberry, in California. Plant Disease 101:550-556.

Koike, S. T., Smith, R. F., Cahn, M. D., and Pryor, B. M. 2017. Association of the carrot pathogen *Alternaria dauci* with new diseases, Alternaria leaf speck, of lettuce and celery in California. Plant Health Progress 18:136-143. <http://dx.doi.org/10.1094/PHP-12-16-0074-RS>.

Miles, T. D., Koike, S. T., and Legard, D. 2017. Evaluation of commonly grown commercial strawberry varieties for susceptibility to gray mold and Rhizopus fruit rot, 2015 and 2016. Plant Disease Management Reports 11:SMF033.

Correll, J. C., Feng, C., Matheron, M. E., Porchas, M. and Koike, S. T. 2017. Evaluation of spinach varieties for downy mildew resistance, 2017. Plant Disease Management Reports 11:V122.

Koike, S. T., Daugovish, O., Martin, F. N., and Ramon, M. L. 2017. Crown and root rot caused by *Rhizoctonia solani* on cilantro in California. Plant Disease 101:2148.

Feng, C., Saito, K., Liu, B., Manley, A., Kammeijer, K., Mauzey, S. J., Koike, S. T., and Correll, J. C. 2018. New races and novel strains of the spinach downy mildew pathogen *Peronospora effusa*. Plant Disease 102:613-618.

Hajlaoui, M. R., Hamrouni, N., Benyahmed, N., Zouba, A., Koike, S., and Mnari-Hattab, M. 2018. First report of the yeast-like fungus *Aureobasidium iranianaum* causing leaf blight on date palms in Tunisian oases. New Disease Reports 37: 4, <http://dx.doi.org/10.5197/j.2044-0588.2018.037.004>.

Rosenthal, E. R., Ramos Sepulveda, L., Bull, C. T., and Koike, S. T. 2018. First report of black rot caused by *Xanthomonas campestris* on arugula in California. Plant Disease 102:1025-1026.

Shennan, C., Muramoto, J., Koike, S., et al. 2018. Anaerobic soil disinfestation is a potential alternative to soil fumigation for control of some soilborne pathogens in strawberry production. Plant Pathology 67:51-66.

Tsuchida, C. T., Mauzey, S. J., Hatlen, R., Miles, T. D., and Koike, S. T. 2018. First report of *Pythium* root rot caused by *Pythium mastophorum* on parsley in the United States. Plant Disease 102:1671.

Gutierrez-Rodriguez, E., Gundersen, A., Sbdio, A., Koike, S., and Suslow, T. V. 2018. Evaluation of post-contamination survival and persistence of applied attenuated *E. coli* O157:H7 and naturally-contaminating *E. coli* O157:H7 on spinach under field conditions and following postharvest handling. Food Microbiol. 77:173-184.

Burkhardt, A., Ramon, M. L., Smith, B., Koike, S. T., and Martin, F. 2018. Development of molecular methods to detect *Macrophomina phaseolina* from strawberry plants and soil. Phytopathology 108:1386-1394.

Fletcher, K., Klosterman, S. J., Derevnina, L., Martin, F., Bertier, L. D., Koike, S., Reyes-Chin-Wo, S., Mou, B., and Michelmore, R. 2018. Comparative genomics of downy mildews reveals potential adaptations to biotrophy. BMC Genomics 19:851 (1-23). <https://doi.org/10.1186/s12864-018-5214-8>.

Extension Publications

During his university appointment, Koike authored numerous articles for university educational materials, university newsletters, pest management guidelines, extension publications, trade journals, and local media.

Awards

2000 Award for Outstanding Achievement: Extension program, from California Friends of Agricultural Extension.

2002 University of California ANR Distinguished Service Award for Outstanding Research.

2005 Recipient of award from the Joseph M. Ogawa Research & Teaching Endowment. UC Davis.

2006 Milton D. and Mary M. Miller Plant Science Award. Department of Plant Sciences. UC Davis.

2011 Oscar Lorenz Award, Dept. Plant Sciences, UC Davis. Meritorious service to California vegetable industry.

2011 University of California ANR Distinguished Service Award for Outstanding Research.

2013 Excellence in Extension Award. American Phytopathological Society

(<http://www.apsnet.org/members/awards/ExcellenceExtension/Pages/KoikeSteven.aspx>).

2018 Outstanding Contribution to Agriculture Award. California Association of Pest Control Advisors (CAPCA).