

# PUBLICATION LIST

**Wolfram Koeller**

## *Research Publications - Refereed Journal Articles and Invited Reviews*

- Avila-Adame, C., Olaya, G., and Köller, W. 2003. Characterization of *Colletotrichum graminicola* isolates resistant to strobilurin-related fungicides. Plant Dis.: in press.
- Avila-Adame, C., and Köller, W. 2003. Insertional mutagenesis of *Magnaporthe grisea* toward decreased responsiveness of alternative respiration to inhibition by azoxystrobin. J. Gen. Plant Pathol. 69: 126-130.
- Avila-Adame, C., and Köller, W. 2003. Characterization of spontaneous mutants of *Magnaporthe grisea* expressing stable resistance to the Qo inhibiting fungicide azoxystrobin. Curr. Genet. 42: 332-338.
- Avila-Adame, C., and Köller, W. 2003. Impact of alternative respiration and target-site mutations on responses of germinating conidia of *Magnaporthe grisea* to QoI-inhibiting fungicides. Pest Managem. Sci 59:303-309.
- Köller, W. 2003. Mode of action of sterol-inhibiting fungicides. Pages 628-640 in: The Encyclopedia of Agrochemicals. Plimmer, J. R., ed., John Wiley, New York.
- Avila-Adame, C., and Köller, W. 2002. Interrelation between alternative respiration and target site mutations in resistance to QoI fungicides. Pages 829-834 in: The BCPC Conference Pests & Diseases 2002, Conference Proceedings, Vol. 2, British Crop Protection Council, Farnham, Surrey, UK.
- Avila-Adame, C., and Köller, W. 2002. Disruption of the alternative oxidase gene in *Magnaporthe grisea* and its impact on host infection. Mol. Plant-Microbe Interact. 15:493-500.
- Köller, W., Avila-Adame, C., Olaya, G., and Zheng, D. 2002. Resistance to strobilurin fungicides. Pages 215-229 in: Pesticide Science: Pesticide Resistance. J. M. Clark and I. Yamaguchi, eds. American Chemical Society, Washington, DC.
- Köller, W., and Wilcox, W.F. 2001. Evidence for the predisposition of fungicide-resistant isolates of *Venturia inaequalis* to a preferential selection for resistance to other fungicides. Phytopathology 91: 776-781.
- Köller, W. 2001. The plant cuticle. Pages 281-285 in: The Encyclopedia of Plant Pathology. Maloy, O.C., and Murray, T.D., eds., John Wiley, New York.

- Koller, W. 2001. Fungal cutinases. Pages 285-289 in: The Encyclopedia of Plant Pathology.  
Maloy, O.C., and Murray, T.D., eds., John Wiley, New York.
- Koller, W. 2001. Fungicide resistance. Pages 483 - 488 in: The Encyclopedia of Plant Pathology. Maloy, O.C., and Murray, T.D., eds., John Wiley, New York.
- Zheng, D., Olaya, G., and Koller, W. 2000. Characterization of *Venturia inaequalis* mutants resisting the strobilurin fungicide kresoxim-methyl. *Curr. Genet.*38: 148-155.
- Koller, W., and Wilcox, W.F. 2000. Interactive effects of dodine and the DMI fungicide fenarimol in the control of apple scab. *Plant Dis.* 84: 863-870.
- Olaya, G., and Koller, W. 1999. Diversity of kresoxim-methyl sensitivities in baseline populations of *Venturia inaequalis*. *Pestic. Sci.*: 1083-1088.
- Koller, W., and Wilcox, W.F. 1999. Evaluation of tactics for managing resistance of *Venturia inaequalis* to sterol demethylation inhibitors. *Plant Dis.*83: 857-863.
- Koller, W. 1999. Chemical approaches to managing plant pathogens. Pages 337-376 in: Handbook of Pest Management. J.R. Ruberson, ed., Marcel Dekker, New York.
- Olaya, G., and Koller, W. 1999. Baseline sensitivities of *Venturia inaequalis* populations to the strobilurin fungicide kresoxim-methyl. *Plant Dis.* 83: 274-278.
- Koller, W., Wilcox, W.F., and Jones, A.L. 1999. Quantification, persistence and status of dodine resistance in New York and Michigan orchard populations of *Venturia inaequalis*. *Plant Dis.* 83: 66-70.
- Olaya, G., Zheng, D., and Koller, W. 1998. Differential responses of germinating *Venturia inaequalis* conidia to kresoxim-methyl. *Pestic. Sci.* 54: 230-236.
- Fan, C.-Y., and Koller, W. 1998. Diversity of cutinases from plant pathogenic fungi: Differential and sequential expression of cutinolytic esterases by *Alternaria brassicicola*. *FEMS Microbiol. Lett.* 158: 33-38.
- Parker, D. M., and Koller, W. 1998. Cutinase and other lipolytic esterases protect bean leaves from infection by *Rhizoctonia solani*. *Molec. Plant-Micr. Interac.* 11: 514-522.
- Zheng, D., and Koller, W. 1997. Characterization of the mitochondrial cytochrome *b* gene from *Venturia inaequalis*. *Curr. Genet.*32: 361-366.

- Koller, W., Wilcox, W. F., Barnard, J., Jones, A. L., and Braun, G. 1997. Detection and quantification of population shifts of *Venturia inaequalis* to sterol demethylation inhibitors. *Phytopathology* 87: 184-190.
- Koller, W., and Yao, C. 1996. Targets for plant protection - Can cutinase be counted in ?. Pages 163-172 in: *Modern Antifungal Compounds*. H. Lyr, P. E. Russel and H. D. Sisler, eds., Intercept Ltd., Andover.
- Koller, W. 1996. Recent developments in DMI resistance. Pages 301-311 in: *Modern Antifungal Compounds*. H. Lyr, P. E. Russel and H. D. Sisler, eds., Intercept Ltd., Andover.
- Koller, W., Yao, C., Trail, F., and Parker, D. M. 1995. Role of cutinases in the invasion of plants. *Can. J. Bot.* 73 (Suppl.1): S1109-S1118.
- Koller, W. 1995. Managing resistance to sterol demethylation inhibitors. Pages 340-349 in: *Eighth International Congress of Pesticide Chemistry - Options 2000*. N.N. Ragsdale, P.C. Kearny and J.R. Plimmer, eds., American Chemical Society, Washington, DC.
- Beresniewicz, M. M., Taylor, A. G., Goffinet, M. C, and Koller, W. 1995. Chemical nature of a semipermeable layer in seed coats of leek, onion (Liliaceae), tomato and pepper (Solanaceae). *Seed Sci. Technol.* 23: 135-145.
- Yao, C., and Koller, W. 1995. Diversity of cutinase from plant pathogenic fungi: Different cutinases are expressed during saprophytic and pathogenic stages of *Alternaria brassicicola*. *Molec. Plant-Micr. Interac.* 8: 122-130.
- Koller, W., Smith, F. D., Reynolds, K. L., Wilcox, W. F. and Burr, J. A. 1995. Seasonal changes of sensitivities to sterol demethylation inhibitors in *Venturia inaequalis* populations. *Mycol. Res.* 99: 689-692.
- Parker, D. M., Hilber, U. W., Bodmer, M., Smith, F. D., Yao, C., and Koller, W. 1995. Production and transformation of conidia of *Venturia inaequalis*. *Phytopathology* 85: 87-91.
- Koller, W. 1994. Chemical Control of Apple Scab - Status Quo and Future. *Norwegian J. Agric. Sci. Suppl.* 17: 149-170.
- Yao, C., and Koller, W. 1994. Diversity of cutinase from plant pathogenic fungi: Cloning and analysis of a cutinase gene from *Alternaria brassicicola*. *Physiol. Molec. Plant Pathol.* 44: 81-92.
- Hilber, U. W., Smith, F. D., and Koller, W. 1994. Biolistic transformation of conidia of *Botryotinia fuckeliana*. *Curr. Genet.* 25: 124-127.

- Trail, F., and Koller, W. 1993. Diversity of cutinases from plant pathogenic fungi: Purification and characterization of two cutinases from *Alternaria brassicicola*. *Physiol. Molec. Plant Pathol.* 42: 205-220.
- Liyanage, H. D., Koller, W., McMillan, R. T., and Kistler, H. C. 1993. Variation in cutinase from two sub-populations of *Colletotrichum gloeosporioides* from citrus. *Phytopathology* 83: 113-116.
- Koller, W. 1992. Role of target research in the discovery of fungicides. Pages 255-310 in: *Target Sites of Fungicide Action*. W. Koller, ed., CRC-Press, Boca Raton.
- Koller, W. 1992. Antifungal target sites in sterol function and biosynthesis. Pages 119-206 in: *Target Sites of Fungicide Action*. W. Koller, ed., CRC-Press, Boca Raton.
- Koller, W., Smith, F. D., and Reynolds, K. L. 1991. Phenotypic instability of flusilazole sensitivities of *Venturia inaequalis*. *Plant Pathol.* 40: 608-611.
- Koller, W., Parker, D. M., and Becker, C. M. 1991. Role of cutinase in the penetration of apple leaves by *Venturia inaequalis*. *Phytopathology* 81: 1375 - 1379.
- Koller, W., Parker, D. M., and Reynolds, K. L. 1991. Baseline sensitivities of *Venturia inaequalis* to sterol demethylation inhibitors. *Plant Dis.* 75: 726-728.
- Smith, F. D., Parker, D. M., and Koller, W. 1991. Sensitivity distribution of *Venturia inaequalis* to the sterol demethylation inhibitor flusilazole: Baseline sensitivity and implications for resistance monitoring. *Phytopathology* 81: 392-396.
- Koller, W. 1991. Fungicide resistance in plant pathogens. Pages 679-720 in: *CRC Handbook of Pest Management in Agriculture*, 2nd Ed., Vol. 2. D. Pimentel, ed. CRC-Press, Boca Raton.
- Koller, W. 1991. The plant cuticle: A first barrier to be overcome by fungal plant pathogens. Pages 219-246 in: *The Fungal Spore and Disease Initiation in Plants and Animals*. G. T. Cole and H. C. Hoch, eds. Plenum Press, New York.
- Trail, F., and Koller, W. 1990. Diversity of cutinases from plant pathogenic fungi: Evidence for a relationship between enzyme properties and tissue specificity. *Physiol. Molec. Plant Pathol.* 37: 495-508.
- Smith, F. D., and Koller, W. 1990. The expression of resistance of *Ustilago avenae* to the sterol demethylation inhibitor triadimenol is an induced response. *Phytopathology* 80: 584-590.
- Koller, W., Trail, F., and Parker, D. M. 1990. Ebelactones inhibit cutinases produced by fungal pathogens. *J. Antibiotics* 43: 734-735.

- Koller, W., and Wubben, J. P. 1989. Variable resistance factors of fungicides acting as sterol demethylation inhibitors. *Pestic. Sci.* 26: 133-145.
- Koller, W., and Parker, D. M. 1989. Purification and characterization of cutinase from *Venturia inaequalis*. *Phytopathology* 79: 278-283.
- Koller, W. 1988. Sterol demethylation inhibitors: Mechanism of action and resistance. Pages 79-88 in: *Fungicide Resistance in North America*. C. J. Delp, ed. APS-Press, St. Paul.
- Koller, W., and Scheinpflug, H. 1987. Fungal resistance to sterol biosynthesis inhibitors: A new challenge. *Plant Dis.* 71: 1066-1074.
- Krämer, W., Berg, D., and Koller, W. 1987. Chemical synthesis and fungicidal resistance. Pages 291-305 in: *Combating Resistance to Xenobiotics - Biological and Chemical Approaches*. Ford et al., eds. Ellis Horwood, Chichester.
- Koller, W. 1987. Isomers of sterol synthesis inhibitors: Fungicidal effects and plant growth regulator activities. *Pestic. Sci.* 18: 129-147.
- Koller, W. 1987. Plant growth regulator activities of stereochemical isomers of triadimenol. *Physiol. Plant.* 71: 309-315.
- Hippe, S., and Koller, W. 1986. Ultrastructure and sterol composition of laboratory strains of *Ustilago avenae* resistant to triazole fungicides. *Pestic. Biochem. Physiol.* 26: 209-219.
- Kolattukudy, P. E., and Koller, W. 1983. Fungal penetration of the first line defensive barriers of plants. Pages 79-100 in: *Biochemical Plant Pathology*. J. A. Callow, ed. John Wiley, Chichester.
- Espelie, K. E., Koller, W., and Kolattukudy, P. E. 1983. 9,16-Dihydroxy-10-oxo-hexadecanoic acid, a novel component in *Citrus* cutin. *Chem. Phys. Lipids* 32: 13-26.
- Koller, W., Allan, C. R., and Kolattukudy, P. E. 1982. Protection of *Pisum sativum* from *Fusarium solani* f. sp. *pisi* by inhibition of cutinase with organophosphorus pesticides. *Phytopathology* 72: 1425-1430.
- Koller, W., Allan, C. R., and Kolattukudy, P. E. 1982. Inhibition of cutinase and prevention of fungal penetration into plants by benomyl - A possible protective mode of action. *Pestic. Biochem. Physiol.* 18: 15-25.
- Koller, W., and Kolattukudy, P. E. 1982. Mechanism of action of cutinase: Chemical modification of the catalytic triad characteristic for serine hydrolases. *Biochemistry* 21: 3083-3090.

- Köller, W., Allan, C. R., and Kolattukudy, P. E. 1982. Role of cutinase and cell wall degrading enzymes in infection of *Pisum sativum* by *Fusarium solani* f. sp. *psii*. *Physiol. Plant Pathol.* 20: 47-60.
- Frevert, J., Köller, W., and Kindl, H. 1980. Occurrence and biosynthesis of glyoxysomal enzymes in ripening cucumber seeds. *Hoppe-Seyler's Z. Physiol. Chem.* 361: 1557-1565.
- Köller, W., and Kindl, H. 1980. 19S cytosolic malate synthase - A small pool characterized by rapid turnover. *Hoppe-Seyler's Z. Physiol. Chem.* 361: 1437-1444.
- Kindl, H., Köller, W., and Frevert, J. 1980. Cytosolic precursor pools during glyoxysome biosynthesis. *Hoppe-Seyler's Z. Physiol. Chem.* 361: 465-467.
- Köller, W., and Kindl, H. 1979. Rates of *de novo* synthesis of malate synthase and albumins during the very early phase of germination. *Z. Naturforsch.* 34c: 1237-1242.
- Köller, W., Frevert, J., and Kindl, H. 1979. Incomplete glyoxysomes appearing at a late stage of maturation of cucumber seeds. *Z. Naturforsch.* 34c: 1232-1236.
- Köller, W., Frevert, J., and Kindl, H. 1979. Albumins, glyoxysomal enzymes and globulins in dry seeds of *Cucumis sativus* : Qualitative and quantitative analysis. *Hoppe-Seyler's Z. Physiol. Chem.* 360: 167-176.
- Köller, W., and Kindl, H. 1978. Studies supporting the concept of glyoxyperoxisomes as intermediary organelles in transformation of glyoxysomes into peroxisomes. *Z. Naturforsch.* 33c: 962-968.
- Köller, W., and Kindl, H. 1978. The appearance of several malate synthase containing cell structures during the stage of glyoxysome biosynthesis. *FEBS-Lett.* 88: 83-86.
- Köller, W., and Kindl, H. 1977. Glyoxylate cycle enzymes of the glyoxysomal membrane from cucumber cotyledones. *Arch. Biochem. Biophys.* 181: 236-248.

**Research Publications – Abstracts** (\*invited lectures)

- \* Köller, W. 2003. Fungicide modes of action. *Phytopathology* 93: S113.
- \* Köller, W. 2003. Possible mechanisms in strobilurin resistance. 8<sup>th</sup> International Congress of Plant Pathology, Abstracts Volume 1 – Invited Papers, p.83.

- \* Koller, W. 2002. Discovery of Targets for New Fungicides. Book of Abstracts "Pesticides in the Molecular Age: A Satellite to the 11<sup>th</sup> North American ISSX Meeting,,.
- Avila-Adame, C., and Koller, W. 2002. Resistance of *Colletotrichum graminicola* to QoI inhibitors. *Phytopathology* 92:S61.
- Parker, D. M., and Koller, W. 2002. Direct inhibition of fungal pathogens by a synergistic mixture of cutinase and Tween 20. *Phytopathology* 92:S63.
- \* Koller, W. 2001. Resistance in Apple Scab to DMI and strobilurin fungicides. Abstracts of the 11<sup>th</sup> Symposium of Research Committee on Fungicide Resistance, Phytopathological Society of Japan, pg. 55-66.
- Avila-Adame, C., and Koller, W. 2001. Disruption of the alternative oxidase gene in *Magnaporthe grisea* and its impact in pathogenicity. Abstracts of the 10<sup>th</sup> International Congress "Molecular Plant-Microbe Interaction,, Abstract 352.
- \* Koller, W. 2001. Resistance in Apple Scab to DMI and strobilurin fungicides. Abstracts of the 11<sup>th</sup> Symposium of Research Committee on Fungicide Resistance, Phytopathological Society of Japan, pg. 55-66.
- Avila-Adame, C., and Koller, W. 2000. Impact of alternative respiration on *Magnaporthe grisea* sensitivity to strobilurin fungicides. *Phytopathology* 90: S3.
- Wang, T. B., and Koller, W. 2000. A gene encoding a putative GDP/GTP exchange protein (GTP) for Rho 1 is a determinant of *Magnaporthe grisea* sensitivity to fenhexamid. *Phytopathology* 90: S82.
- \* Koller, W. 2000. Fungicide resistance: Management strategies. *Phytopathology* 90: S100.
- Parker, D.M., and Koller, W. 1999. Cutinase protects bean and cabbage leaves from infection by *Sclerotinia sclerotiorum*. *Phytopathology* 89 (Suppl.), 59.
- Avila-Adame, C., and Koller, W. 1999. Strobilurin-sensitive mutants of *Magnaporthe grisea* generated by restriction enzyme-mediated integration (REMI). *Phytopathology* 89 (Suppl.), 4.
- \* Koller, W. 1998. Mode of action of fungicides in real plant pathogens. Abstracts 7th International Congress of Plant Pathology, Vol. 1, 5.5.1.S.
- \* Koller, W. 1997. Status quo and future of fungicide resistance. Annual Meeting APS - Caribbean Division, Abstract Book, pg. 95.

- Olaya, G., and Koller, W. 1997. Inheritance of resistance to the sterol inhibitor fungicide fenarimol in *Venturia inequalis*. *Phytopathology* 87:S71.
- Parker, D.M., and Koller, W. 1997. Lipolytic esterases protect bean leaves from infection by *Rhizoctonia solani*. *Phytopathology* 87:S75.
- Zheng, D., and Koller, W. 1997. Characterization of the mitochondrial cytochrome b gene encoding the target site of strobilurin fungicides from *Venturia inequalis*. *Phytopathology* 87:S109.
- \* Koller, W. 1996. Modes of action and management of resistance. Abstracts of Papers American Chemical Society. 121 (1-2), Agro abstract # 61.
- \* Koller, W. 1995. Targets for plant protection - Can cutinase be counted in ? 11th International Symposium Modern Fungicides and Antifungal Compounds", Reinhardtsbrunn, Germany. Book of Abstracts.
- \* Koller, W. 1995. Recent developments in DMI resistance. 11th International Symposium Modern Fungicides and Antifungal Compounds", Reinhardtsbrunn, Germany. Book of Abstracts.
- \* Koller, W., and Wilcox, W. F. 1995. Relative merits of strategies for the management of fungicide resistance. Molecular Genetics and Ecology of Pesticide Resistance, ACS, Division of Agrochemicals, Special Conference VI, Big Sky, Montana, Conference Abstract Book: p. 26.
- Matteson, M.C., Burr, T.J., Corral-Garcia, M.R., Parker, D., and Koller, W. 1995. Russet of apple fruit induced by isolates of *Rhodotorula glutinis* and *Aureobasidium pullulans*. *Phytopathology* 85: 1558.
- Koller, W. 1994. Resistance to sterol demethylation inhibitors in the control of apple scab. Second National Integrated Pest Management/Symposium/Workshop, Las Vegas, Nevada. Proceedings p. 161.
- \* Koller, W. 1994. Managing resistance to sterol demethylation inhibitors. Eighth IUPAC International Congress of Pesticide Chemistry. Book of Abstracts, Vol. 1, p. 494.
- \* Koller, W. 1994. Role of cutinases in the invasion of plants. Fifth International Mycological Congress. Abstracts p. 111.
- \* Koller, W. 1993. Recent progress in the development of fungicides and future prospects. 6th International Congress of Plant Pathology, Montreal, Abstracts p. 26.

- Bodmer, M., Hilber, U. W., and Koller, W. 1993. Fitness of *Venturia inaequalis* strains with different sensitivities to DMI fungicides. 6th International Congress of Plant Pathology, Montreal, Abstracts p. 56.
- Yao, C., and Koller, W. 1993. Cloning and analysis of one cutinase gene from *Alternaria brassicicola*. 6th International Congress of Plant Pathology, Montreal, Abstracts p. 157.
- Hilber, U. W., Bodmer, M., and Koller, W. 1993. Biolistic transformation of *Botryotinia fuckeliana* and *Venturia inaequalis*. 6th International Congress of Plant Pathology, Montreal, Canada. Abstracts p. 158.
- Trail, F., and Koller, W. 1992. Purification and characterization of two cutinases from *Alternaria brassicicola*. *Phytopathology* 82: 1085.
- Parker, D. M., and Koller, W. 1992. Sporulation of *Venturia inaequalis* on solid media. *Phytopathology* 82: 1132.
- Trail, F., and Koller, W. 1991. Cutinase diversity in plant pathogenic fungi and its role in tissue specificity. Sixteenth Fungal Genetics Conference, Asilomar Conference Center, Pacific Grove, CA, Program p 38.
- Reynolds, K. L., and Koller, W. 1991. Sensitivity of two populations of *Venturia inaequalis* to dodine and flusilazole. *Phytopathology* 81: 1138.
- Smith, F. D., and Koller, W. 1990. The effect of flusilazole on the germination of conidia of flusilazole-sensitive and resistant isolates of *Venturia inaequalis*. *Phytopathology* 80: 1000.
- Trail, F., and Koller, W. 1990. A role for cutinase in the expression of tissue specificity by fungal pathogens. *Phytopathology* 80: 1055.
- Muimba-Kangolongo, A., Bergstrom, G. C., Koller, W., and Nelson, E. B. 1990. Pith discoloration is correlated with fungal ergosterol content in anthracnose stalk rot of maize. *Phytopathology* 80: 1069.
- Koller, W. 1990. The dynamics of molecular responses of a *Ustilago avenae* mutant resistant to DMI-fungicides. Seventh International Congress of Pesticide Chemistry, Hamburg, Book of Abstracts 04E-09.
- \* Koller, W. 1990. Biochemical basis of resistance to fungicides. Fourth International Mycological Congress, Regensburg, Germany, Abstracts IIF-289/4.
- Koller, W. Biochemistry of fungicides acting as sterol demethylation inhibitors. Abstracts 1990 CIC Congress, 49.

- Smith, F. D., Koller, W., and Parker, D. M. 1989. Baseline sensitivity of three populations of *Venturia inaequalis* to flusilazole. *Phytopathology* 79: 1171.
- Koller, W., and Smith, F. D. 1989. The expression of resistance of *Ustilago avenae* to triadimenol is an induced response. *Phytopathology* 79: 1170.
- Trail, F., and Koller, W. 1989. Diversity of cutinases from fungal pathogens. *Phytopathology* 79: 1151.
- Smith, D., and Koller, W. 1988. Growth and sterol content of strains of *Ustilago avenae* resistant and sensitive to triadimenol. *Phytopathology* 78: 1511.
- Koller, W. 1988. Cutinase from *Venturia inaequalis*. *Phytopathology* 78: 1557.
- \* Koller, W. 1988. Targets for novel fungicides. 5th International Congress of Plant Pathology, Kyoto, Japan, Abstracts of Papers: IX 3-6.
- Koller, W. 1988. Resistance of *Ustilago avenae* to sterol demethylation inhibitors. 5th International Congress of Plant Pathology, Kyoto, Japan, Abstracts of Papers: IX 1-91.
- Koller, W. 1987. Triadimenol enantiomers inhibit sterol biosynthesis in plants. *Plant Physiol.* 83 (Suppl.): 67.
- Koller, W., and Kindl, H. 1978. Protein bodies of cucumber seeds and seedlings. *Abstracts Botanikertagung Marburg 1978*: 185.
- Koller, W., and Kindl, H. 1978. Is malate synthase associated with the ER during the biosynthesis of glyoxysomes? *Abstracts Botanikertagung Marburg 1978*: 183.
- Koller, W., and Kindl, H. 1977. Dynamics and properties of two malate synthases bound to different types of membranes of cucumber cotyledons. *Hoppe-Seyler's Z. Physiol. Chem.* 358: 1233.

### **Books**

- Koller, W., ed. 1992. *Target Sites of Fungicide Action*. CRC-Press, Boca Raton. 328 pp. ISBN 0-8493-6855-3.
- Koller, W., Meineke, I., Pfriem, S., and Wurthwein, E. U. 1978. *Chemie in Experimenten - Ein Praktikum für Biologen*. Otto Salle Verlag, Frankfurt. 248 pp. ISBN 3-7935-5079-6

### ***Patents***

- Koller, W., (Cornell University). 2000. Esterases as inducers of plant defense reactions and agents for the control of plant diseases. US Patent 6,080,565.
- Maurer, F., Sommer, H., Koller, W., Brandes, W., and Reinecke, P., (Bayer AG). 1987. Preparation of pyridyl phosphate esters as agrochemical fungicides. Chem. Abstr. 107: 231426n.
- Schwamborn, M., Kuhle, E., Klauke, E., Brandes, W., and Koller, W., (Bayer AG). 1986. Fungizide Mittel auf pyrimidin-Derivat-Basis. Chem. Abstr. 105: 2232n.
- Schwamborn, M., Kuhle, E., Brandes, W., and Koller, W., (Bayer AG). 1986. Fungizide Mittel auf Triazin-Derivat-Basis. Chem. Abstr. 105: 97504q.

### ***Technical Publications***

- Turecheck, B., and Koller, W. 2003. Apple scab: Are the SIs used up, and how do the strobilurins help out? Scaffolds Fruit Journal 12(6):3-6.
- Rosenberger, D., Koller, W., and Turecheck, B. 2002. Managing fungicide resistance in apple orchards. Scaffolds Fruit Journal 11(4):1-4.
- Rosenberger, D., Koller, W., and Turecheck, B. 2002. Resistance is futile. American Fruit Grower 122(9):32-33.
- Koller, W. 1999. Editorial - Funding of apple research by the apple growers. New York Fruit Quarterly 6 (4): 1.
- Koller, W., and Wilcox, W.F. 1999. Sustained control of apple scab: Fungicide options, fungicide resistance and FQPA. New York Fruit Quarterly 6 (4): 14-18.
- Koller, W. 1998. Current status quo of DMI resistance. Summary and Recommendations - FRAC Banana Working Group pgs 4-6.
- Wilcox, W., and Koller, W. 1997. Apple scab fungicide resistance - Where do we stand? Scaffolds Fruit Journal 6, No. 4, 4-5.
- Koller, W., Wilcox, W.F., and Olson, B. D. 1996. Managing resistance of apple scab to sterol inhibitor fungicides. Down to Earth 51: 20-24.
- Wilcox, W., and Koller, W. 1996. Apple scab resistance to sterol inhibitor fungicides? Scaffolds Fruit Journal 5, April 8: 5-7.

Koller, W., and Wilcox, W.F. 1995. Scab control and fungicide resistance. What have we learned over the years ? New York Fruit Quarterly 3: 12-17.

Wilcox, W., and Koller, W. 1995. Resistance risks / management strategies for SI fungicides. American Fruit Grower, March 1995: 30-36.

Koller, W., and Dennehy, T.J. 1994. Pest resistance management and IPM. Second National Integrated Pest Management/Symposium/Workshop, Las Vegas, Nevada. Proceedings pp. 153-154.

Koller, W. 1993. Guest Editorial - APS and fungicide resistance. Phytopathology NEWS 27: 170-171.

Wilcox, W. F., and Koller, W. 1993. Resistance risks and management strategies for SI fungicides used to control apple scab. New York Fruit Quarterly 1: 9-11.

Koller, W. 1991. Management of resistance of apple scab. Fruit Research Summaries: Projects in Support of Integrated Pest Management Production Systems. Joint Meeting of the Pomology Liaison Board, Apple Research Marketing Order Committee and the Statewide Fruit Industry Committee, NYSAES, Geneva, NY, pg. 25.

Koller, W. 1991. Mode of action of fungicides and fungicides of the future. Proceedings of the 1st Nelson J. Shaulis Viticulture Symposium, 33-37.

Smith, F. D., Koller, W., and Parker, D. M. 1989. Baseline sensitivity of three populations of *Venturia inaequalis* to flusilazole. Resistant Pest Management Vol. 2 (No.1): 40.

Koller, W. 1989. Biochemistry of fungal resistance to sterol demethylation inhibitors. Resistant Pest Management Vol. 1 (No.1): 14.