
Publication List of Ulrich Gisi

- I. **Books, Chapters and Reviews in Books** (8 and 30)
- II. **Plant Pathology, Epidemiology and Population Genetics** (43)
- III. **Soil Ecology** (19)
- IV. **Chemical Disease Control and Fungicide Resistance** (88)
- V. **Molecular Biology and Genetics** (12)

Total Number of publications: 200 (1973 – 2019)

Major original papers (highlighted in green) in:

Pest Management Science (12)
Journal of Phytopathology (10)
Crop Protection (7)
Phytopathology (7)
Plant Pathology (7)
Oecologia Plantarum (6)
European Journal of Plant Pathology (5)
Fungal Genetics and Biology (4)
Fungal Biology (earlier Mycological Research / TBMS) (4)
Pesticide Biochemistry and Physiology (4)
Physiological and Molecular Plant Pathology (3)
EPPO Bulletin (3)
Journal of Plant Diseases and Protection (2)
Journal of Plant Nutrition and Soil Science (2)

One paper each in:

Annals of Applied Biology, Pesticide Science, Molecular Plant-Microbe Interactions, Plant Disease, Mycologia, Phytoparasitica, PLOS ONE, Soil Biology and Biochemistry, Pedobiologia, Applied Soil Ecology, Compost Science and Utilization, Bauhinia, Microscopica Acta

In addition many papers in Congress Proceedings, esp. of “Reinhardsbrunn Symposia”

I. Books (co-author/co-editor), Chapters and Reviews in Books

1. **GISI, U. 1983:** Biophysical aspects of the development of *Phytophthora*. Chap. 8 (pp. 109-119) in: D. C. Erwin, S. Bartnicki-Garcia, P. H. Tsao, eds., *Phytophthora: Its Biology, Taxonomy, Ecology and Pathology*. American Phytopathological Society, St. Paul, USA, 392 pp.
2. **GISI, U. 1988:** Population dynamics in Peronosporales treated with phenylamide fungicides. Chap.23 (pp. 66-71) in: Ch. Delp, ed., *Fungicide Resistance in North America*. American Phytopathological Society Press, St. Paul, Minnesota, USA, 133 pp.
3. **GISI, U. and STAEHLE-CSECH, U. 1988:** Resistance risk evaluation of new candidates for disease control. Chap. 32 (pp. 101-106) in: Ch. Delp, ed. *Fungicide Resistance in North America*. American Phytopathological Society Press, St. Paul, Minnesota, USA, 133 pp.
4. **GISI, U. 1989:** Important Plant Pathogenic Fungi and the Diseases they cause. Brochure of SANDOZ Agrobiological Research Station, 29 pp.
5. **GISI, U., SCHENKER, R., SCHULIN, R., STADELMANN, F. X. und STICHER, H. 1990:** *Bodenökologie*. Taschenlehrbuch mit 142 Abbildungen und 51 Tabellen. Georg Thieme Stuttgart, New York, 304 pp.
6. **GISI, U. and CAPPONI, C. 1991:** Las enfermedades del cafeto y su control con Alto. (Coffee diseases and their control by Alto). SANDOZ Broschüre, 25 pp.
7. **GISI, U. 1991:** Synergism between fungicides for control of *Phytophthora*. Chap. 24 (pp. 361-372) in: J. A. Lucas, R. C. Shattock, D. S. Shaw, L. R. Cooke, eds., *Phytophthora*. Cambridge University Press, Cambridge, 447 pp.
8. **DE WAARD, M. A. and GISI, U. 1995:** Synergism and antagonism in fungicides. Chap. 26 (pp. 565-578) in: H. Lyr, ed., *Modern Selective Fungicides*, 2nd edition, Gustav Fischer Jena, Germany, 595 pp.
9. **GISI, U., ITEN, F. and OHL, L. 1995:** Changes in sensitivity to fungicides and epidemiological behaviour of *Phytophthora infestans* field isolates. pp. 142-147 in: L.J. Dowley, E. Bannon, L. R. Cooke, T. Keane, E. O'Sullivan, eds., *Phytophthora infestans 150*, Boole Press Dublin, Ireland, 382 pp.
10. **GISI, U. and COHEN, Y. 1996:** Resistance to phenylamide fungicides: A case study with *Phytophthora infestans* involving mating type and race structure. *Annual Review of Phytopathology* **34**, 549-572.
11. **KATARIA, H. and GISI, U. 1996:** Chemical control of *Rhizoctonia* species. Chap VI. D (pp. 537-547) in: B. Sneh, S. Jabaji-Hare, S. Neate, G. Dijst, eds., *Rhizoctonia Species: Taxonomy, Molecular Biology, Ecology, Pathology and Disease Control*, Kluwer Academic Publishers, Dordrecht, Netherlands, 578 pp.

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12. **GISI, U., SCHENKER, R., SCHULIN, R., STADELMANN, F.X. und STICHER, H. 1997:**
Bodenökologie. Taschenlehrbuch mit 159 Abbildungen und 56 Tabellen. Zweite, neu bearbeitete und erweiterte Auflage, Georg Thieme Stuttgart, 350 pp.
 13. **SPENCER-PHILLIPS, P.T.N., GISI, U. and LEBEDA, A. (EDS) 2002:**
Advances in Downy Mildew Research, Kluwer, Dordrecht, Netherlands, 269 pp.
 14. **GISI, U. 2002:** Chemical control of downy mildews. pp. 119-159 in P.T.N. Spencer-Phillips, U. Gisi, A. Lebeda, eds. *Advances in Downy Mildew Research*, Kluwer, Dordrecht, 269 pp.
 15. **DEHNE, H.W., GISI, U., KUCK, K.H., RUSSELL, P.E., H. LYR, H. (EDS) 2002:** *Modern Fungicides and Antifungal Compounds III*, AgroConcept Bonn, Germany, 464 pp.
 16. **SIEROTZKI, H. and GISI, U. 2003:** Molecular diagnostics for fungicide resistance in plant pathogens. Chap. 07 (pp. 71-88) in G. Voss and G. Ramos, eds. *Chemistry of Crop Protection*, Wiley-VCH Weinheim, Germany.
 17. **GISI, U. and ZIEGLER, H. 2003:** Phenylamides / Acylalanines. pp. 609-616 (Vol. 2) in J.R. Plimmer, D.W. Gammon, N.N. Ragsdale, eds. *Encyclopedia of Agrochemicals*, John Wiley, Hoboken, New Jersey, USA, 1638 pp.
 18. **DEHNE, H.W., GISI, U., KUCK, K.H., RUSSELL, P.E., H. LYR, H. (EDS) 2005:** *Modern Fungicides and Antifungal Compounds IV*, BCPC, Alton, UK, 369 pp.
 19. **KUCK, K-H. and GISI, U. 2007:** FRAC mode of action classification and resistance risk of fungicides. Chap. 12, pp. 415-432, in W. Krämer and U. Schirmer, eds. *Modern Crop Protection Compounds*, Wiley-VCH, Weinheim, Germany.
 20. **GISI, U. and MÜLLER, U. 2007:** Anilinopyrimidines: Methionine biosynthesis inhibitors. Chap. 14.2 (pp. 551-560) in W. Krämer and U. Schirmer, eds. *Modern Crop Protection Compounds*, Wiley-VCH, Weinheim, Germany.
 21. **GISI, U., LAMBERTH, C., MEHL, A. and SEITZ, T. 2007:** Carboxylic Acid Amide (CAA) fungicides. Chap. 18 (pp. 651-674) in W. Krämer and U. Schirmer, eds. *Modern Crop Protection Compounds*, Wiley-VCH, Weinheim, Germany.
 22. **MÜLLER, U. and GISI, U. 2007:** Newest aspects of nucleic acid synthesis inhibitors – metalaxyl-M. Chap. 23, pp. 739-746, in W. Krämer and U. Schirmer, eds. *Modern Crop Protection Compounds*, Wiley-VCH, Weinheim, Germany.
 23. **DEHNE, H.W., DEISING, H.B., GISI, U., KUCK, K.H., RUSSELL, P.E., H. LYR, H. (EDS) 2008:** *Modern Fungicides and Antifungal Compounds V*, DPG Selbstverlag Braunschweig, Germany, 360 pp.
 24. **GISI, U., CHET, I. and GULLINO, M.L. (EDS.) 2010:**
Recent Developments in Management of Plant Diseases.
9th International Congress of Plant Pathology, Torino, Italy. Springer Science, Dordrecht, Netherlands, 377 pp.

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- 25. LEADBEATER, A. and GISI, U. 2010:** The challenges of chemical control of plant diseases. Chap. 1 (pp. 3-17) in U. Gisi, I. Chet, M.L. Gullino, eds. *Recent Developments in Management of Plant Diseases*. 9th ICPP Torino, Italy, Springer Science, Dordrecht, Netherlands, 377 pp.
- 26. GISI, U. 2010:** Training in plant pathology from an industry perspective. Chap. 8 (pp. 91-100) in N. Hardwick and M.L. Gullino, eds., *Knowledge and Technology Transfer for Plant Pathology*. 9th ICPP, Torino, Italy, Springer Science, Dordrecht, Netherlands, 123 pp.
- 27. DEHNE, H.W., DEISING, H.B., GISI, U., KUCK, K.H., RUSSELL, P.E., H. LYR, H. (EDS) 2011:** *Modern Fungicides and Antifungal Compounds VI*, DPG Selbstverlag Braunschweig, Germany, 438 pp.
- 28. KUCK, K-H., LEADBEATER, A. and GISI, U. 2012:** FRAC mode of action classification and resistance risk of fungicides. Chap. 14, pp. 539-557, in W. Krämer, U. Schirmer, P. Jeschke, M. Witschel, eds., *Modern Crop Protection Compounds*, 2nd edn., Wiley-VCH, Weinheim, Germany.
- 29. GISI, U. and MÜLLER, U. 2012:** Anilinopyrimidines: Methionine biosynthesis inhibitors. Chap. 16.2, pp. 706-714, in W. Krämer, U. Schirmer, P. Jeschke, M. Witschel, eds., *Modern Crop Protection Compounds*, 2nd edn., Wiley-VCH, Weinheim, Germany.
- 30. GISI, U., LAMBERTH, C., MEHL, A. and SEITZ, T. 2012:** Carboxylic Acid Amide (CAA) fungicides. Chap. 20, pp. 807-830, in W. Krämer, U. Schirmer, P. Jeschke, M. Witschel, eds., *Modern Crop Protection Compounds*, 2nd edn., Wiley-VCH, Weinheim, Germany.
- 31. MÜLLER, U. and GISI, U. 2012:** Newest aspects of nucleic acid synthesis inhibitors – metalaxyl-M. Chap. 23, pp. 901-908, in W. Krämer, U. Schirmer, P. Jeschke, M. Witschel, eds., *Modern Crop Protection Compounds*, 2nd edn., Wiley-VCH, Weinheim, Germany.
- 32. GISI, U. 2012:** Resistance to Carboxylic Acid Amide (CAA) fungicides and anti-resistance strategies. Chap. 8, pp. 96-103, in T.S. Thind, ed., *Fungicide Resistance in Crop Protection: Risks and Management*, CABI, Wallingford, UK, 284 pp.
- 33. HERMANN, D. and GISI, U. 2012:** Fungicide resistance in Oomycetes with special reference to *Phytophthora infestans* and phenylamides. Chap. 11, pp. 133-140, in T.S. Thind, ed., *Fungicide Resistance in Crop Protection: Risks and Management*, CABI, Wallingford, UK, 284 pp.
- 34. GISI, U., BACKHAUS, G., KAYSER, H., BASSAND, D., HAAS, H.U. und DEHNE, H.W. 2013:** Pflanzenschutz. Physikalische und Chemische Pflanzenschutzmassnahmen. Kapitel 6.3 und 6.4, pp. 430-473, in H. M. Poehling und J. A. Verreet, Hrsg., *Lehrbuch der Phytomedizin*, 4. überarbeitete Auflage, Ulmer, Stuttgart, 576 pp.

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- 35. GISI, U. and SIEROTZKI, H. 2015:** Mechanisms of resistance: Oomycete fungicides – Phenylamides, Quinone outside Inhibitors and Carboxylic Acid Amides. Chap. 10, pp 145-174 in H Ishii, D Hollomon, eds, *Fungicide Resistance in Plant Pathogens: Principles and a Guide to Practical Management*. Springer Japan.
- 36. GISI, U., LAMBERTH, C., MEHL, A. and SEITZ, T. 2019:**
Carboxylic Acid Amide (CAA) Fungicides.
Chap. 20, pp. 845-869, in P. Jeschke, M. Witschel, W. Krämer, U. Schirmer, eds.
Modern Crop Protection Compounds, 3rd edn., Wiley-VCH, Weinheim, Germany.
- 37. HERMANN, D.C., MCKENZIE, D., COHEN, Y. and GISI U. 2019:**
Phenylamides: Market trends and resistance evolution for important Oomycete pathogens 35 years after the first product introduction.
Chap. 7, pp xxx-yyy in K.L. Stevenson, C.A. Wyenandt, M.L. McGrath, eds,
Fungicide Resistance in North America, APS Press, in press.
- 38. OLAYA, G., BLUM, M., SIEROTZKI, H., TALLY, A. and GISI, U. 2019:**
The carboxylic acid amide fungicides.
Chap. 8, pp xxx-yyy in K.L. Stevenson, C.A. Wyenandt, M.T. McGrath, eds,
Fungicide Resistance in North America, APS Press, in press.

II. Plant Pathology, Epidemiology and Population Genetics

1. **GISI, U. und MEYER, D. 1973:** Oekologische Untersuchungen an *Phytophthora cactorum* (Leb. et Cohn) Schroet. im Boden mit direkten Beobachtungsmethoden. *Phytopathologische Zeitschrift* **76**, 276-279.
2. **GISI, U. and SCHWINN, F. J. 1974:** Studies on the saprophytic soil phase of *Phytophthora cactorum*. *Phytophthora Newsletter* **2**, 12-13.
3. **GISI, U. 1975:** Eine neue Methode zur quantitativen Direktbeobachtung der Sporangien von *Phytophthora cactorum* (Leb. et Cohn) Schroet. im Boden. *Zeitschrift für Pflanzenkrankheiten und Pflanzenschutz* **82**, 30-47.
4. **GISI, U. 1975:** Untersuchungen über die Bodenphase von *Phytophthora cactorum* (Leb. et Cohn) Schroet. mit fluoreszenzoptischer Direktbeobachtung. *Zeitschrift für Pflanzenkrankheiten und Pflanzenschutz* **82**, 355-377.
5. **GISI, U. 1975:** Eine Methode zum sterilen Absaugen von Sporen aus Pilzkulturen. *Phytopathologische Zeitschrift* **84**, 369-372.
6. **GISI, U. und SCHWINN, F. J. 1976:** Die Eignung von Vitalfarbstoffen und optischen Aufhellern zur fluoreszenzmikroskopischen Beobachtung von *Phytophthora cactorum* (Leb. et Cohn) Schroet. *in vitro* und im Boden. *Microscopica Acta* **77**, 402-419.
7. **GISI, U. and SCHWINN, F. J. 1976:** Influence of optical brighteners on growth of mycelium and sporangia formation of *Phytophthora cactorum in vitro*. *Phytophthora Newsletter* **4**, 2-5.
8. **GISI, U. and SCHWINN, F. J. 1976:** Sequence of steps during zoospore release from sporangia of *Phytophthora cactorum*. *Phytophthora Newsletter* **4**, 6-8.
9. **GISI, U., OERTLI, J. J. und SCHWINN, F. J. 1977:** Wasser- und Salzbeziehungen der Sporangien von *Phytophthora cactorum* (Leb. et Cohn) Schroet. *in vitro*. *Phytopathologische Zeitschrift* **89**, 261-284.
10. **GISI, U. 1977:** Indirect Germination of Sporangia of *Phytophthora cactorum* (Leb. et Cohn) Schroet. (Oomycetes). S/w Stummfilm, 4 Min., Botanisches Institut der Universität Basel; Schweizerische Gemeinschaft für den Hochschul- und Forschungsfilm.
11. **GISI, U., ZENTMYER, G. A. and KLURE, L. J. 1979:** Differential sensitivity of *Phytophthora* species to the optical brightener diethanol *in vitro*. *Phytophthora Newsletter* **7**, 12-13.
12. **GISI, U., SCHWINN, F. J. and OERTLI, J. J. 1979:** Dynamics of indirect germination in *Phytophthora cactorum* sporangia. *Transactions of the British Mycological Society* **72**, 437-446.

13. **GISI, U., HEMMES, D. E. and ZENTMYER, G. A. 1979:** Origin and significance of the discharge vesicle in *Phytophthora*.
Experimental Mycology **3**, 321-339.
14. **GISI, U., ZENTMYER, G. A. and KLURE, L. J. 1980:** Production of sporangia by *Phytophthora cinnamomi* and *P. palmivora* in soils at different matric potentials.
Phytopathology **70**, 301-306.
15. **GISI, U. and ZENTMYER, G. A. 1980:** Mechanism of zoospore release in *Phytophthora* and *Pythium*.
Experimental Mycology **4**, 362-377.
16. **GISI, U. 1982:** Symbiose: Strategie des Zusammenlebens.
Bauhinia **7**, 213-226.
17. **SENN, H. und GISI, U. 1982:** Temperaturabhängige Kinetik der Zoosporenfreisetzung aus Sporangien von *Phytophthora cactorum*.
Phytopathologische Zeitschrift **105**, 230-247.
18. **GISI, U., RIMBACH, E. and BINDER, H. 1987:** Methods of studying inhibitors of zoosporic fungi during host-parasite interactions under greenhouse conditions. pp. 146-149 in: M.S. Fuller and A. Jaworski, eds., *Zoosporic Fungi in Teaching and Research*. Southeastern Publishing Corporation, Athens, Georgia, USA, 303 pp.
19. **GISI, U. 1987:** Methods and theoretical aspects of studying discharge mechanism in *Phytophthora* and *Pythium* species. pp. 276-278 in: M. S. Fuller and A. Jaworski, eds., *Zoosporic Fungi in Teaching and Research*. Southeastern Publishing Corporation, Athens, Georgia, USA, 303 pp.
20. **WALDNER-ZULAUF, M. und GISI, U. 1991:** Populationsänderungen von *Pseudocercospora herpotrichoides* mit und ohne Fungizidselektion.
Journal of Phytopathology **132**, 89-98.
21. **COHEN, Y., GISI, U. and MOESINGER, E. 1991:** Systemic resistance of potato plants against *Phytophthora infestans* induced by unsaturated fatty acids.
Physiological and Molecular Plant Pathology **38**, 255-263.
22. **MAJOROS, K., GISI, U. and GEES, R. 1993:** Studies of mating type and phenylamide sensitivity behaviour in *Phytophthora infestans*. pp. 175-182 in: H. Lyr and C. Polter, eds, Proceedings 10th International Symposium on Systemic Fungicides and Antifungal Compounds. Schriftenreihe der Dt. Phytomed. Ges., Bd. 4, Ulmer Stuttgart, Germany, 463 pp.
23. **COHEN, Y., GISI, U. and NIDERMAN, T. 1993:** Local and systemic protection against *Phytophthora infestans* induced in potato and tomato plants by jasmonic acid and jasmonic-methyl-ester.
Phytopathology **83**, 1054-1062.
24. **ENKERLI, J., GISI, U. and MOESINGER, E. 1993:** Systemic acquired resistance to *Phytophthora infestans* in tomato and the role of pathogenesis related proteins.
Physiological and Molecular Plant Pathology **43**, 161-171.

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25. **COHEN, Y. and GISI, U. 1994:** Systemic translocation of ^{14}C -DL-3-aminobutyric acid in tomato plants in relation to induced resistance against *Phytophthora infestans*. *Physiological and Molecular Plant Pathology* **45**, 441-456.
26. **DUVAUCHELLE, S., LHERBIER, V., EMERY, D., SARNIGUET, C., LEBRETON, L., ANDRIVON, D., GISI, U., KNAPOVA, G. and EDEL, D. 1997:** Repartition des souches A2 de *Phytophthora infestans* en France en 1996. 5th International Conference Plant Diseases, Tours, France, *Annales ANPP*, pp. 369-374.
27. **KNAUF-BEITER, G., THEILER, M., GISI, U. and STAUB, T. 1997:** Cytology of SAR in tobacco against tobacco blue mold. 1997 APS Meeting. *Phytopathology* **87**, Supplementum, p. 53, abstract.
28. **ETIENNE, L., BECK, J.J., BASSIN, C., THOMAS, C., WEST, S.J.E. and GISI, U. 1998:** PCR assessment of wheat field samples from the UK, US, Germany and France for the detection of *Pseudocercospora herpotrichoides*. 7th International Congress of Plant Pathology, abstract 3.3.25.
29. **CHIN, K.M., FELSENSTEIN, F.G., and GISI, U. 1998:** Stabilizing selection of *Erysiphe graminis* f. sp. *tritici* populations for sensitivity to sterol biosynthesis inhibitors. 7th International Congress of Plant Pathology, abstract 5.5.27.
30. **KNAPOVA, G. and GISI, U. 2000:** Characterisation of *Phytophthora infestans* from potato and tomato with molecular markers. 5th Congress EFPP, Giardini Naxos, Italy, *Biodiversity in Plant Pathology*, p. 3, abstract103.
31. **STEINFELD, U., SIEROTZKI, H., PARISI, S., POIREY, S. and GISI, U. 2001:** Sensitivity of mitochondrial respiration to different inhibitors in *Venturia inaequalis*. *Pest Management Science* **57**, 787-796.
32. **LEVIN, A., BAIDER, A., RUBIN, E., GISI, U. and COHEN, Y. 2001:** Oospore formation by *Phytophthora infestans* in potato tubers. *Phytopathology* **91**, 579-585.
33. **KNAPOVA, G., TENZER, I., GESSLER, C. and GISI, U. 2001:** Characterisation of *Phytophthora infestans* from potato and tomato with molecular markers. Proceedings 5th Congress EFPP, Giardini Naxos, Italy, *Biodiversity in Plant Pathology*, pp. 6-9.
34. **ROBINSON, H.L., RIDOUT, C.J., SIEROTZKI, H., GISI, U. and BROWN, J.K.M. 2002:** Isogamous, hermaphroditic inheritance of mitochondrion-encoded resistance to Qo inhibitor fungicides in *Blumeria graminis* f.sp. *tritici*. *Fungal Genetics and Biology* **36**, 98-106.
35. **RUEGNER, A., RUMBOLZ, J., HUBER, B., BLEYER, G., GISI, U., KASSEMAYER, H.H. and GUGGENHEIM, R. 2002:** Formation of overwintering structures of *Uncinula necator* and colonization of grapevine under field conditions. *Plant Pathology* **51**, 322-330.

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- 36. KNAPOVA, G. and GISI, U., 2002:** Phenotypic and genotypic structure of *Phytophthora infestans* populations on potato and tomato in France and Switzerland.
Plant Pathology **51**, 641-653.
- 37. KNAPOVA, G., SCHLENZIG, A. and GISI, U., 2002:** Crosses between isolates of *Phytophthora infestans* from potato and tomato and characterization of F1 and F2 progeny for phenotypic and molecular markers.
Plant Pathology **51**, 698-709.
- 38. SCHERER, E. and GISI, U. 2006:** Characterization of genotype and mating type in European isolates of *Plasmopara viticola*.
Journal of Phytopathology **154**, 489-495.
- 39. GISI, U., WALDER, F., RESHEAT-EINI, Z., EDEL, D., SIEROTZKI, H. 2010:** Veränderungen der Populationsstruktur von *Phytophthora infestans* in Europa. 57. Deutsche Pflanzenschutztagung, Berlin, *Julius-Kühn-Archiv* **428**, Abstract 13-10, 141.
- 40. GISI, U., WALDER, F., RESHEAT-EINI, Z., EDEL, D. and SIEROTZKI, H. 2011:** Changes of genotype, sensitivity and aggressiveness in *Phytophthora infestans* isolates collected in European Countries in 1997, 2006 and 2007.
Journal of Phytopathology **159**, 223-232.
- 41. HAMED, B. and GISI, U. 2013:** Generation of pathogenic F1 progeny from crosses of *Phytophthora infestans* isolates differing in ploidy.
Plant Pathology **62**, 708-718.
- 42. COHEN, Y., VAN DEN LANGENBERG, K.M., WEHNER, T.C., OJIAMBO, P.S., HAUSBECK, M., QUESADA-OCAMPO, L.M., LEBEDA, A., SIEROTZKI, H., and GISI, U. 2015:** Resurgence of *Pseudoperonospora cubensis*: The causal agent of cucurbit downy mildew.
Phytopathology **105**, 998-1012.
- 43. MATIC, S., GILARDI, G., GISI, U., GULLINO, M. L., GARIBALDI, A. 2018:** Differentiation of *Pythium* spp. from vegetable crops with molecular markers and sensitivity to azoxystrobin and mefenoxam.
Pest Management Science **xx**, in press.

III. Soil Ecology

1. **GISI, U. und OERTLI, J. J. 1978:** Veränderungen in Vegetation und Boden auf Grund der Brachlegung von Kulturland.
Bulletin Bodenkundliche Gesellschaft der Schweiz **2**, 42-47.
2. **GISI, U., FROSSARD, P. und OERTLI, J. J. 1979:** Bodenkundlicher Vergleich von Kultur- und Brachland im Schweizer Jura.
Zeitschrift für Pflanzenernährung und Bodenkunde **142**, 639-654.
3. **GISI, U. und OERTLI, J. J. 1981:** Oekologische Entwicklung in Brachland verglichen mit Kulturwiesen. I. Physikalisch-chemische Veränderungen im Boden.
Oecologia Plantarum **2** (**16**), 7-21.
4. **GISI, U. und OERTLI, J. J. 1981:** Oekologische Entwicklung in Brachland verglichen mit Kulturwiesen. II. Veränderungen in ober- und unterirdischer Pflanzenmasse.
Oecologia Plantarum **2** (**16**), 79-86.
5. **GISI, U. und OERTLI, J. J. 1981:** Oekologische Entwicklung in Brachland verglichen mit Kulturwiesen. III. Mikrobiologische Veränderungen im Boden.
Oecologia Plantarum **2** (**16**), 163-173.
6. **GISI, U. und OERTLI, J. J. 1981:** Oekologische Entwicklung in Brachland verglichen mit Kulturwiesen. IV. Veränderungen im Mikroklima.
Oecologia Plantarum **2** (**16**), 233-249.
7. **STOECKLIN, J. und GISI, U. 1985:** Bildung und Abbau der Streu in bewirtschafteten und brachliegenden Mähwiesen. pp. 101-109 in: K. F. Schreiber, ed., *Sukzession auf Grünlandbrachen*.
Münstersche Geographische Arbeiten **20**, Schöningh, Paderborn, 230 pp.
8. **ZINKERNAGEL, C. und GISI, U. 1985:** Einfluss der Brachlegung von Magerwiesen auf Dichte und Zusammensetzung der Bodenmikroorganismen-Populationen.
Pedobiologia **28**, 333-341.
9. **KATARIA, H. R. and GISI, U. 1989:** Recovery from soil and sensitivity to fungicides of *Rhizoctonia cerealis* and *Rhizoctonia solani*.
Mycological Research **92**, 458-462.
10. **STOECKLIN, J. und GISI, U. 1989:** Veränderungen der Versorgung der Vegetation mit Stickstoff, Phosphor und Kalium nach Brachlegung von Magerwiesen.
Acta Oecologica/Oecologia Plantarum **10**, 397-410.
11. **STOECKLIN, J. und GISI, U. 1989:** Auswirkungen der Brachlegung von Mähwiesen auf die Produktion pflanzlicher Biomasse und die Menge und Struktur der Streudecke.
Acta Oecologica/Oecologia Applicata **3**, 259-270.

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12. **GISI, U. 1990:** Bodenfunktionen und Bodennutzung. (Les fonctions du sol et son utilisation).
SANDOZ-Bulletin **26** (93), 16-21.
13. **GISI, U. und BROLL, G. 1995:** Bodenökologie und Stoffkreisläufe. pp. 45-49 in: G. Broll, ed., Workshop Bodenökologie. Mitteilungen Deutsche Bodenkundl. Gesellschaft **78**, 1-128.
14. **KALBERER, N. and GISI, U. 1997:** Effect of soil matric potential on sharp eyespot in germinating wheat following seed treatment.
Zeitschrift für Pflanzenernährung und Bodenkunde **160**, 195-199.
15. **SIMMEN, U. and GISI, U. 1998:** Uptake of ¹⁴C-SAN 789 F and ¹⁴C-cyproconazole into germinating wheat following seed treatment at different soil matric potentials.
Soil Biology and Biochemistry **30**, 517-522.
16. **FRANCESCHINI, S., CHITARRA, W. PUGLIESE, M., GISI, U., GARIBALDI, A. and GULLINO, M.L. 2016:**
Quantification of *Aspergillus fumigatus* and enteric bacteria in European compost and biochar.
Compost Science and Utilization **24**, 20-29.
17. **SANTORO, K., MATIC, S., GISI, U., SPADARO, D., PUGLIESE, M., GULLINO, M. L. 2017:**
Abundance, genetic diversity and sensitivity to demethylation inhibitor fungicides of *Aspergillus fumigatus* isolates from organic substrates with special emphasis on compost.
Pest Management Science **73**, 2481-2494.
18. **PUGLIESE, M., MATIC, S., PRETHI, S., GISI, U., GULLINO, M.L. 2018:**
Molecular characterization and sensitivity to demethylation inhibitor fungicides of *Aspergillus fumigatus* from orange-based compost.
PLoS ONE **13**, e0200569. <https://doi.org/10.1371/journal.pone.0200569>.
19. **CUCU, M.A., GILARDI, G., PUGLIESE, M., MATIC, S., GISI, U., GULLINO, M.L. and GARIBALDI, A. 2019:**
Influence of different biological control agents and compost on the rhizosphere and soil total and nitrification driving microbial communities in a lettuce – *Fusarium oxysporum* f.sp. *lactucae* pathosystem.
Applied Soil Ecology **xx**, in press.

IV. Chemical Disease Control and Fungicide Resistance

1. **GISI, U., HARR, J., SANDMEIER, R. and WIEDMER, H. 1983:** A new systemic oxazolidinone fungicide (SAN 371 F) against diseases caused by Peronosporales. *Mededelingen Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent* **48**, 541-549.
2. **GISI, U. and WIEDMER, H. 1983:** Fungicidal activity of SAN 371 F and its combinations against Peronosporales.
10th International Congress of Plant Protection, 1193, British Crop Protection Council, UK, 1228 pp.
2a: GISI, U., 1983: Chap. Biology (pp. 23-60) in: The new oxazolidinone class of systemic fungicides. Basic study on oxadixyl, the active ingredient contained in Sandofan products;
SANDOZ Agro Brochure, 60 pp.
2b: DEVOISE-LAMBERT, A. and GISI, U., 1983: Oxadixyl mixtures with Aliette and Cymoxanil.
Patent GB-2114002-B (DE-OS 3301281).
3. **FULLER, M. S. and GISI, U. 1985:** Comparative studies of the *in vitro* activity of the fungicides oxadixyl and metalaxyl.
Mycologia **77**, 424-432.
4. **GISI, U., BINDER, H. and RIMBACH, E. 1985:** Synergistic interactions of fungicides with different modes of action.
Transactions of the British Mycological Society **85**, 299-306.
28a. BARNAVON, M. et GISI, U. 1985: PULSAN et les phénomènes de synergie.
La Défense des végétaux. **235**, 1-7.
5. **GRABSKI, C. and GISI, U. 1985:** Mixtures of fungicides with synergistic interactions for protection against phenylamide resistance in *Phytophthora*. pp. 315-318 in: I. M. Smith, ed., *Fungicides for Crop Protection*.
British Crop Protection Council, Monograph **31**, 504 pp.
6. **BARNAVON, M. et GISI, U. 1985:** L'association oxadixyl, mancozèbe, cymoxanil et les phénomènes de résistances chez le mildiou de la vigne. pp. 395-398 in: I. M. Smith, ed., *Fungicides for Crop Protection*.
British Crop Protection Council, Monograph **31**, 504 pp.
7. **GISI, U., SCHAUB, F., WIEDMER, H. and UMMEL, E. 1986:** SAN 619 F, a new triazole fungicide.
1986 British Crop Protection Conference, Pests and Diseases, 33-40.
8. **GISI, U., RIMBACH, E., BINDER, H., ALTWEGG, P. and HUGELSHOFER, U. 1986:** Biological profile of SAN 619 F and related EBI fungicides.
1986 British Crop Protection Conference, Pests and Diseases, 857-864.

-
9. LEVY, Y., BENDERLY, M., COHEN, Y., GISI, U. and BASSAND, D. 1986: The joint action of fungicides in mixtures: comparison of two methods for synergy calculation. *EPPO Bulletin* **16**, 651-657.
 10. GRABSKI, C. and GISI, U. 1987: Quantification of synergistic interactions of fungicides against *Plasmopara* and *Phytophthora*. *Crop Protection* **6**, 64-71.
 11. SAMOUCHA, Y. and GISI, U. 1987: Possible explanations of synergism in fungicide mixtures against *Phytophthora infestans*. *Annals of Applied Biology* **110**, 303-311.
 12. SAMOUCHA, Y., HUGELSHOFER, U. and GISI, U. 1987: Effects of disease intensity and application type on efficacy and synergy of fungicide mixtures against *Phytophthora infestans*. *Journal of Phytopathology* **120**, 44-52.
 13. SAMOUCHA, Y. and GISI, U. 1987: Systemicity and persistence of cymoxanil in mixture with oxadixyl and mancozeb against *Phytophthora* and *Plasmopara*. *Crop Protection* **6**, 393-398.
 14. SAMOUCHA, Y. and GISI, U. 1987: Use of two- and three-way mixtures to prevent build-up of resistance to phenylamide fungicides in *Phytophthora* and *Plasmopara*. *Phytopathology* **77**, 1405-1409.
 15. GISI, U. and STAEHLE-CSECH, U. 1988: Evaluation of resistance risk and anti-resistance strategies for fungicides. 2nd International Conference on Plant Diseases, Bordeaux, 1253-1263.
 16. GISI, U. and STAEHLE-CSECH, U. 1988: Resistance risk evaluation of phenylamide and EBI fungicides. 1988 British Crop Protection Conference, Pests and Diseases, 359-366.
 17. STAEHLE-CSECH, U., RICHLI, G., HUGGENBERGER, F. and GISI, U. 1989: Performance of cyproconazole as seed-treatment under laboratory and field conditions. pp. 235-236 in: *Comparing Laboratory and field pesticide performance*, Aspects of Applied Biology **21**, Association of Applied Biologists, Wellesbourne, Warwick, GB, 245 pp.
 18. KATARIA, H. R., SINGH, H. and GISI, U. 1989: Interactions of fungicide-insecticide combinations against *Rhizoctonia solani* in vitro and in the soil. *Crop Protection* **8**, 399-404.
 19. SEEBACH, D., ADAM, G., ZIBUCK, R., SIMON, W., ROUILLY, M., MEYER, W. L., HINTON, J. F., PRIVETT, T. A., TEMPLETON, G. E., HEINY, D. K., GISI, U. and BINDER, H. 1989: Gloeosporone, a macrolide fungal germination selfinhibitor. Total synthesis and activity. *Liebigs Annalen der Chemie*, 1233-1240.

-
- 20. FULLER, M. S., ROBERSON, R. W. and GISI, U. 1990:** Effects of the demethylase inhibitor, cyproconazole, on hyphal tip cells of *Sclerotium rolfsii*. III. Cell wall cytochemistry.
Pesticide Biochemistry and Physiology **36**, 115-126.
- 21. BASSAND, D., FELIX, H. R. und GISI, U. 1990:** Entdecken und Erforschen von neuen Pflanzenschutzmitteln.
SANDOZ-Gazette **22**, Nr. 284, 5-6.
- 22. PORRAS, L., GISI, U. and STAEHLE-CSECH, U. 1990:** Selection dynamics in triazole treated populations of *Erysiphe graminis* in barley.
1990 British Crop Protection Conference, Pests and Diseases, 1163-1168.
- 23. SEEBACH, D., ADAM, G., VON DEM BUSSCHE-HUENNEFELD, C., GISI, U. and BINDER, H. 1990:** EPC-synthesis and fungistatic activity of a gloeosporone analog with a w-hydroxybutyl instead of the pentyl side chain on the macrocyclic ring.
Liebigs Annalen der Chemie, 1007-1012.
- 24. KATARIA, H. R. and GISI, U. 1990:** Interactions of fungicide-herbicide combinations against plant pathogens and weeds.
Crop Protection **9**, 403-409.
- 25. GRABSKI, C. and GISI, U. 1990:** Sensitivity and sterol profiles of plant pathogenic fungi treated with cyproconazole. pp. 95-99 in: H. Lyr and C. Polter, eds., *Systemic Fungicides and Antifungal Compounds*, Tagungsbericht Nr. 291, Akademie der Landwirtschaftswissenschaften, Berlin, Germany, 227 pp.
- 26. KATARIA, H. R., HUGELSHOFER, U. and GISI, U. 1991:** Sensitivity of *Rhizoctonia* species to different fungicides.
Plant Pathology **40**, 203-211.
- 27. KATARIA, H. R., VERMA, P. R. and GISI, U. 1991:** Variability in the sensitivity of *Rhizoctonia solani* anastomosis groups to fungicides.
Journal of Phytopathology **133**, 121-133.
- 28. STAEHLE-CSECH, U. and GISI, U. 1991:**
28a. Determination of the sensitivity to DMI fungicides of *Puccinia recondita* on wheat. Chap 2.10 (pp. 315-317).
28b. Determination of the sensitivity to DMI fungicides of *Cercospora beticola* on sugarbeet. Chap. 2.13. (pp. 321-323).
In: *FRAC methods for monitoring fungicide resistance*, developed by the working groups of the Fungicide Resistance Action Committee (FRAC) of GIFAP.
EPPO-Bulletin **21**, 291-354.

-
- 29. GISI, U. 1992:** FRAC methods for monitoring the sensitivity of fungal pathogens to phenylamide fungicides. Phenylamide Fungicide Resistance Action Committee (PA-FRAC) of GIFAP (U. Gisi, ed.).
- 29a.** Williams, R., and Gisi, U.: Monitoring pathogen sensitivity to phenylamide fungicides: Principles and interpretation (Chap. 1, pp. 299-306).
- 29b.** Sozzi, D., Schwinn, F. J., and Gisi, U.: Determination of the sensitivity of *Phytophthora infestans* to phenylamides: A leaf disc method (Chap. 2, pp. 306-309).
- 29c.** Staehle-Csech, U., and Gisi, U.: Determination of the sensitivity of *Plasmopara viticola* to phenylamides (Chap. 5, pp. 314-316). *EPPO-Bulletin* **22**, 297-322.
- 30. SAMOUCHA, Y., BAIDER, A., COHEN, Y. and GISI, U. 1993:** Control of late blight in potato by full and reduced rates of oxadixyl mixtures. *Phytoparasitica* **21**, 69-73.
- 31. COHEN, Y. and GISI, U. 1993:** Uptake, translocation and degradation of ¹⁴C-cymoxanil in tomato plants as affected by mancozeb and oxadixyl. *Crop Protection* **12**, 284-292.
- 32. GISI, U. and HERMANN, D. 1994:** Sensitivity behaviour of *Septoria tritici* populations on wheat to cyproconazole. pp. 11-18 in: S. Heaney, D. Slawson, D. W. Hollomon, M. Smith, P.E. Russell and D. W. Parry, eds., *Fungicide Resistance*, BCPC Monograph No 60.
- 33. OHL, L. and GISI, U. 1994:** Sensitivity of brown and yellow rust populations on wheat to cyproconazole. pp. 125-128 in: S. Heaney, D. Slawson, D. W. Hollomon, M. Smith, P.E. Russell and D. W. Parry, eds., *Fungicide Resistance*, BCPC Monograph No 60.
- 34. GISI, U. and OHL, L. 1994:** Dynamics of pathogen resistance and selection through phenylamide fungicides. pp. 139-146 in: S. Heaney, D. Slawson, D. W. Hollomon, M. Smith, P.E. Russell and D. W. Parry, eds., *Fungicide Resistance*, BCPC Monograph No 60.
- 35. HERMANN, D., and GISI, U. 1994:** Cross-resistance among DMI-fungicides and sensitivity distributions of *Septoria tritici* populations. 1994 British Crop Protection Conference, Pests and Diseases, 487-492.
- 36. GISI, U. and DALTON, I. P. 1995:** Antiresistance strategies in disease control. (Estrategias de anti-resistencia en el control de enfermedades). Proceedings 5th Symposium Nacional de Sanidad Vegetal, Sevilla, Spain, 145-156.
- 37. SIMMEN, U. and GISI, U. 1995:** Effects of seed treatment with SAN 789 F, a homopropargylamine fungicide, on germination and contents of squalene and sterols of wheat seedlings. *Pesticide Biochemistry and Physiology* **52**, 25-32.

-
38. **KATARIA, H. and GISI, U. 1996:** Selectivity of fungicides within the genus *Rhizoctonia*. Chap. 52 (pp. 421- 429) in: H. Lyr, P.E. Russell, H.D. Sisler, eds., *Modern Fungicides and Antifungal Compounds*, Reinhardtsbrunn Symposium 1995, Intercept Andover, Germany, 578 pp.
39. **SIMMEN, U. and GISI, U. 1996:** Uptake and distribution in germinating wheat of [¹⁴C] SAN 789 F and [¹⁴C] cyproconazole applied as seed treatment. *Crop Protection* **15**, 275-281.
40. **GISI, U. 1996:** Synergistic interaction of fungicides in mixtures. *Phytopathology* **86**, 1273-1279.
41. **GISI, U., HERMANN, D., OHL, L. and STEDEN, C. 1997:** Sensitivity profiles of *Mycosphaerella graminicola* and *Phytophthora infestans* populations to different classes of fungicides. *Pesticide Science* **51**, 290-298.
42. **HERMANN, D., FISCHER, W., KNAUF-BEITER, G., STEINEMANN, A., MARGOT, P., GISI, U. and LAIRD, D. 1998:** Behavior of the new strobilurin fungicide trifloxystrobin on and in plants. 1998 APS Annual Meeting. *Phytopathology* **88**, abstract.
43. **KUENG, R., CHIN, K.M. and GISI, U. 1999:** Sensitivity of *Venturia inaequalis* to cyprodinil. pp. 313-322, in H. Lyr, P.E. Russell, H.W. Dehne, H.D. Sisler, eds., *Modern Fungicides and Antifungal Compounds II*, Intercept, Germany, 505 pp.
44. **SIEROTZKI, H., PARISI, S., STEINFELD, U., TENZER, I., POIREY, S. and GISI, U. 2000:** Mode of resistance to respiration inhibitors at the cytochrome bc1 enzyme complex of *Mycosphaerella fijiensis* field isolates. *Pest Management Science* **56**, 833-841.
45. **GISI, U., CHIN, K.M., KNAPOVA, G., KUENG FAERBER, R., MOHR, U., PARISI, S., SIEROTZKI, H. and STEINFELD, U. 2000:** Recent developments in elucidating modes of resistance to phenylamide, DMI and strobilurin fungicides. *Crop Protection* **19**, 863-872.
46. **WILLE, P., SIEROTZKI, H., TENZER, I. and GISI, U. 2000:** Molecular tools to diagnose strobilurin resistance in *Mycosphaerella fijiensis*. 6th International Conference Plant Diseases, Tours, France. *Annales ANPP*, pp. 843-850.
105a. SIEROTZKI, H., WILLE, P. and GISI, U. 2001: Oligonucleotides identifying fungicide resistant plant pathogenic fungi, specifically resistant at the Qo center. Patent application WO 01/53521.
47. **GISI, U., SIEROTZKI, H., COOK, A. and McCAFFERY, A., 2002:** Mechanisms influencing the evolution of resistance to Qo inhibitor fungicides. *Pest Management Science* **58**, 859-867.

-
48. WILLE, P., SIEROTZKI, H., STANGER, C., CLEERE, S., BURBIDGE, J., HALL, A., WINDASS, J. and GISI, U. 2002: Qualitative and quantitative identification of SNPs in plant pathogens. Chap. 14, pp. 131-139, in H.W. Dehne, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds III*, AgroConcept Bonn, Germany.
49. SIEROTZKI, H., WULLSCHLEGER, J., ALT, M., BRUYERE, T., PILLONEL, C., PARISI, S., and GISI, U. 2002: Potential mode of resistance to anilinopyrimidine fungicides in *Botrytis cinerea*. Chap. 15, pp. 141-148, in H.W. Dehne, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds III*, AgroConcept Bonn, Germany.
50. STEINFELD, U., SIEROTZKI, H., PARISI, S. and GISI, U. 2002: Comparison of resistance mechanisms to strobilurin fungicides in *Venturia inaequalis*. Chap. 18, pp. 167-176, in H.W. Dehne, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds III*, AgroConcept Bonn, Germany.
51. SIEROTZKI, H., SCHLENZIG, A., WULLSCHLEGER, J., WINDASS, J., STANGER, C., BURBIDGE, J., CLEERE, S., HALL, A. and GISI, U. 2002: Cytochrome b gene in fungi: phylogenetic relationships and a mutation for QoI resistance. Chap. 31, pp. 281-289, in H.W. Dehne, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds III*, AgroConcept Bonn, Germany.
52. BÄUMLER, S., SIEROTZKI, H., GISI, U., MOHLER, V., FELSENSTEIN, G.F. and SCHWARZ, G. 2003: Evaluation of *Erysiphe graminis* f.sp. *tritici* field isolates for resistance to strobilurin fungicides with different SNP detection systems. *Pest Management Science* **59**, 310-314.
53. GISI, U., SIEROTZKI, H., HERMANN, D. and GEHMANN, K. 2003: Resistance risk assessment for existing and new fungicides. 2003 APS Annual Meeting. *Phytopathology* **93**, S113, abstract.
54. GISI, U. and SIEROTZKI, H. 2004: Resistance status and management for QoI fungicides. *Proceedings 14th Symposium of Research Committee on Fungicide Resistance*, Phytopathological Society of Japan, Fukuoka, Japan, 11-17.
55. GISI, U., SIEROTZKI, H., HERMANN, D. and GEHMANN, K. 2004: Coping with resistance to existing and new fungicides. *Proceedings 15th International Plant Protection Congress*, p. 216, abstract, Beijing, China, Foreign Languages Press.
56. DUX, H., SIEROTZKI, H., MEIER-RUNGE, F. and GISI, U. 2005: Sensitivity of *Venturia inaequalis* populations to anilinopyrimidine, DMI and QoI fungicides. Chap. 6, pp. 45-54, in H.W. Dehne, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds IV*, BCPC, Alton, UK, 369 pp.
57. SIEROTZKI, H., KRAUS, N., ASSEMAT, P., STANGER, C., CLEERE, S., WINDASS, J. and GISI, U. 2005: Evolution of resistance to QoI fungicides in *Plasmopara viticola* populations in Europe. Chap. 9, pp. 73-80, in H.W. Dehne, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds IV*, BCPC, Alton, UK, 369 pp.

-
- 58. GISI, U., PAVIC, L., STANGER, C., HUGELSHOFER, U. and SIEROTZKI, H. 2005:** Dynamics of *Mycosphaerella graminicola* populations in response to selection by different fungicides. Chap. 11, pp. 89-101, in H.W. Dehne, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds IV*, BCPC, Alton, UK, 369 pp.
- 59. SIEROTZKI, H. and GISI, U. 2006:** Mechanisms and diagnostics of QoI resistance in cereal pathogens. pp. 17-19, in R.J. Bryson, F.J. Burnett, V. Foster, B.A. Fraaije, R. Kennedy, eds. *Fungicide Resistance: Are we winning the battle but losing the war?* Aspects of Applied Biology **78**, Warwick, UK.
- 60. NAEF, A., HUGELSHOFER, U., SIEROTZKI, H. and GISI, U. 2006:** Comparison of the sensitivity to DMI fungicides with changes in the *cyp51* gene in *Septoria tritici*. P 151 (abstract), in R.J. Bryson, F.J. Burnett, V. Foster, B.A. Fraaije, R. Kennedy, eds. *Fungicide Resistance: Are we winning the battle but losing the war?* Aspects of Applied Biology **78**, Warwick, UK.
- 61. KLARFELD, S., GISI, U. and COHEN, Y. 2006:** Effects of sexual reproduction on aggressiveness and population structure of *Phytophthora infestans*. *Phytoparasitica* **34**, 294 (abstract).
- 62. RUBIN, E., HADAD, T., GISI, U. and COHEN, Y. 2006:** Mutagenesis of *Phytophthora infestans* for resistance against dimethomorph and mefenoxam. *Phytoparasitica* **34**, 305-306 (abstract).
- 63. RUBIN, E. A., GOTLIEB, D., GALPERIN, M., GISI, U. and COHEN, Y. 2007:** Failure to induce resistance against mandipropamid in *Phytophthora infestans*. *Phytoparasitica* **35**, 196 (abstract).
- 64. COHEN, Y. and GISI, U. 2007:** Differential activity of carboxylic acid amide fungicides against various developmental stages of *Phytophthora infestans*. *Phytopathology* **97**, 1274-1283.
- 65. COHEN, Y., RUBIN, E., HADAD, T., GOTLIEB, D., SIEROTZKI, H. and GISI, U. 2007:** Sensitivity of *Phytophthora infestans* to mandipropamid and the effect of enforced selection pressure in the field. *Plant Pathology* **56**, 836-842.
- 66. TOFFOLATTI, S.L., SERRATI, L. SIEROTZKI, H., GISI, U. and VERCESI, A. 2007:** Assessment of QoI resistance in *Plasmopara viticola* oospores. *Pest Management Science* **63**, 194-201.
- 67. GISI, U. and SIEROTZKI, H. 2008:** Molecular aspects of fungicide resistance in plant pathogens. Proceedings *1st International Conference on Agrochemicals Protecting Crop, Health and Natural Environment*, IARI, Venus Printers, New Delhi, p. 16 (abstract).

-
- 68. RUBIN, A (E.), GOTLIEB, D., GISI, U. and COHEN, Y. 2008:** Mutagenesis of *Phytophthora infestans* for resistance against carboxylic acid amide and phenylamide fungicides. *Plant Disease* **92**, 675-683.
- 69. GISI, U. and SIEROTZKI, H. 2008:** Fungicide modes of action and resistance in downy mildews. *European Journal of Plant Pathology* **122**, 157-167.
- 70. GISI, U. and SIEROTZKI, H. 2008:** Resistance risk assessment for mandipropamid and other CAA fungicides. Proceedings 18th Symposium of Research Committee on Fungicide Resistance, Phytopathological Society of Japan, Matsueshi, Japan, pp. 19-29.
- 71. GISI, U. and SIEROTZKI, H. 2008:** Molecular and genetic aspects of fungicide resistance in plant pathogens. Chap. 7, pp. 53-61, in H.W. Dehne, H.B. Deising, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds V*, DPG Selbstverlag Braunschweig, Germany, 360 pp.
- 72. DUBUIS, P.H., WALDNER, M., BOEHLER, M., FONNE-PFISTER, R., SIEROTZKI, H. and GISI, U. 2008:** Molecular approaches for evaluating resistance mechanisms in CAA fungicides. Chap. 10, pp. 79-84, in H.W. Dehne, H.B. Deising, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds V*, DPG Selbstverlag Braunschweig, Germany, 360 pp.
- 73. BLUM, M. and GISI, U. 2008:** Inheritance of fungicide resistance in *Plasmopara viticola*. Chap. 13, pp. 101-104, in H.W. Dehne, H.B. Deising, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds V*, DPG Selbstverlag Braunschweig, Germany, 360 pp.
- 74. CHASSOT, C., HUGELSHOFER, U., SIEROTZKI, H. and GISI, U. 2008:** Sensitivity of cyp51 genotypes to DMI fungicides in *Mycosphaerella graminicola*. Chap. 18, pp. 129-136, in H.W. Dehne, H.B. Deising, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds V*, DPG Selbstverlag Braunschweig, Germany, 360 pp.
- 75. SIEROTZKI, H., KRAUS, N., PEPIN, S., FERNANDES, N. and GISI, U. 2008:** Dynamics of QoI resistance in *Plasmopara viticola*. Chap. 21, pp. 151-157, in H.W. Dehne, H.B. Deising, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds V*, DPG Selbstverlag Braunschweig, Germany, 360 pp.
- 76. TOFFOLATTI, S.L., PRANDATO, M., SERRATI, L. SIEROTZKI, H., GISI, U. and VERCESI, A. 2008:** Monitoring QoI resistance in *Plasmopara viticola* oospore populations. Chap. 22, pp. 159-165, in H.W. Dehne, H.B. Deising, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds. *Modern Fungicides and Antifungal Compounds V*, DPG Selbstverlag Braunschweig, Germany, 360 pp.
- 77. GISI, U. and SIEROTZKI, H. 2010:** Auswirkungen verschiedener Wirkungsmechanismen auf die Resistenzentwicklung bei Oomyceten-Fungiziden. 57. Deutsche Pflanzenschutztagung, Berlin, *Julius-Kühn-Archiv* **428**, Abstract 09-6, 114-115.

-
- 78. GISI, U. and LEADBEATER, A. 2010:** The challenge of chemical control as part of integrated pest management. In *Plant Disease Management: 50 years of challenges. Journal of Plant Pathology* **92** (4, Supplement), 9-13.
- 79. TOFFOLATTI, S.L., PRANDATO, M., SERRATI, L., SIEROTZKI, H., GISI, U. and VERCESI, A. 2011:** Evolution of Qol resistance in *Plasmopara viticola* oospores. *European Journal of Plant Pathology* **129**, 331-338.
- 80. RUBIN, A.E., WERDIGER, A-C., BLUM, M., GISI, U., SIEROTZKI, H., HERMANN, D. and COHEN, Y. 2011:** EMS and UV irradiation induce unstable resistance against CAA fungicides in *Bremia lactucae*. *European Journal of Plant Pathology* **129**, 339-351.
- 81. SIEROTZKI, H., BLUM, M., OLAYA, G., WALDNER-ZULAUF, M, WULLSCHLEGER, J., COHEN, Y. and GISI, U. 2011:** Sensitivity to CAA fungicides and frequency of mutations in cellulose synthase (*CesA3*) gene of oomycete pathogen populations. Chap. 15, pp. 103-110, in H.W. Dehne, H.B. Deising, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds., *Modern Fungicides and Antifungal Compounds VI*, DPG Selbstverlag Braunschweig, Germany, 438 pp.
- 82. BLUM, M., SIEROTZKI, H. and GISI, U. 2011:** Comparison of cellulose synthase 3 (*CesA3*) gene structure in different oomycetes. Chap. 22, pp. 151-154, in H.W. Dehne, H.B. Deising, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds., *Modern Fungicides and Antifungal Compounds VI*, DPG Selbstverlag Braunschweig, Germany, 438 pp.
- 83. SIEROTZKI, H., FREY, R., BUITRAGO, C., WULLSCHLEGER, J., and GISI, U. 2011:** Sensitivity of European *Mycosphaerella graminicola* populations to DMI fungicides. Chap. 35, pp. 237-243, in H.W. Dehne, H.B. Deising, U. Gisi, K.H. Kuck, P.E. Russell, H. Lyr, eds., *Modern Fungicides and Antifungal Compounds VI*, DPG Selbstverlag Braunschweig, Germany, 438 pp.
- 84. BLUM, M., WALDNER, M., OLAYA, G., COHEN, Y., GISI, U. and SIEROTZKI, H. 2011:** Resistance mechanism to carboxylic acid amide fungicides in the cucurbit downy mildew pathogen *Pseudoperonospora cubensis*. *Pest Management Science* **67**, 1211-1214.
- 85. GISI, U. 2012:** Pflanzenschutz – alternativlos: Beiträge der Wissenschaft. 58. Deutsche Pflanzenschutztagung, Braunschweig, *Julius-Kühn-Archiv* **438**, 58, Abstract (Plenarvortrag).
- 86. GISI, U. 2014:** Assessment of selection and resistance risk for DMI fungicides in *Aspergillus fumigatus* in agriculture and medicine: A critical review. *Pest Management Science* **70**, 352-364.
- 87. GILARDI, G., GISI, U., GARIBALDI, A., and GULLINO, M.L. 2017:** Effect of elevated atmospheric CO₂ and temperature on the chemical and biological control of powdery mildew of zucchini and the Phoma leaf spot of leaf beet. *European Journal of Plant Pathology* **148**, 229–236.

- 88. SICILIANO, I., GILARDI, G, ORTU, G., GISI, U., GULLINO, M.L., and GARIBALDI, A. 2017:**
Identification and characterization of *Alternaria* species causing leaf spot on cabbage, cauliflower, wild and cultivated rocket by using molecular and morphological features and mycotoxin production.
European Journal of Plant Pathology **149**, 401-413.

V. Molecular Biology and Genetics

1. **SIEROTZKI, H., WULLSCHLEGER, J. und GISI, U. 2000:** Mutation im Cytochrom b Gen von Strobilurin resistenten *Erysiphe graminis* f.sp. *tritici* Feldisolaten. 52. Deutsche Pflanzenschutztagung, Freising-Weihenstephan, Germany, *Mitteilungen BBA*, **376**, 98 , Abstract 053.
2. **SIEROTZKI, H., WULLSCHLEGER, J. and GISI, U. 2000:** Point mutation in cytochrome *b* gene conferring resistance to strobilurin fungicides in *Erysiphe graminis* f.sp. *tritici* field isolates. *Pesticide Biochemistry and Physiology* **68**, 107-112.
3. **RANDALL, T.A., DWYER, R.A., HUITEMA, E., BEYER, K., CVITANICH, C., KELKAR, H., AH FONG, A.M.V., GATES, K., ROBERTS, S., YATZKAN, E., GAFFNEY, T., LAW, M., TESTA, A., TORTO-ALALIBO, T., ZHANG, M., ZHENG, L., MUELLER, E., WINDASS, J., BINDER, A., BIRCH, P.R.J., GISI, U., GOVERS, F., GOW, N.A., MAUCH, F., VAN WEST, P., WAUGH, M.E., YU, J., BOLLER, T., KAMOUN, S., LAM, S.T. and JUDELSON, H.S. 2005:** Large-scale gene discovery in the oomycete *Phytophthora infestans* reveals likely components of phytopathogenicity shared with true fungi. *Molecular Plant-Microbe Interactions (MPMI)* **18**, 229-243.
4. **GRASSO, V., SIEROTZKI, H., GARIBALDI, A. and GISI, U. 2006:** Characterization of the cytochrome *b* gene fragment of *Puccinia*_species responsible for the binding site of QoI fungicides. *Pesticide Biochemistry and Physiology* **84**, 72-82.
5. **GRASSO, V., SIEROTZKI, H., GARIBALDI, A. and GISI, U. 2006:** Relatedness among agronomically important rusts based on mitochondrial cytochrome *b* gene and ribosomal ITS sequences. *Journal of Phytopathology* **154**, 110-118.
6. **GRASSO, V., PALERMO, S., SIEROTZKI, H., GARIBALDI, A. and GISI, U. 2006:** Cytochrome *b* gene structure and consequences for resistance to QoI fungicides in plant pathogens. *Pest Management Science* **62**, 465-472.
7. **GISI, U., WALDNER, M., KRAUS, N., DUBUIS, P.H. and SIEROTZKI, H. 2007:** Inheritance of resistance to Carboxylic Acid Amide (CAA) fungicides in *Plasmopara viticola*. *Plant Pathology* **56**, 199-208.
8. **SIEROTZKI, H., FREY, R., WULLSCHLEGER, J., PALERMO, S., KARLIN, S., GODWIN, J. and GISI, U. 2007:** Cytochrome *b* gene sequence and structure of *Pyrenophora teres* and *P. tritici-repentis* and implications for QoI resistance. *Pest Management Science* **63**, 225-233.

- 9. BLUM, M., WALDNER, M. and GISI, U. 2010:** A single point mutation in the novel *PvCesA3* gene confers resistance to the carboxylic acid amide fungicide mandipropamid in *Plasmopara viticola*.
Fungal Genetics and Biology **47**, 499-510.
- 10. BLUM, M., WALDNER, M., FONNE-PFISTER, R., SIEROTZKI, H., GISI, U. 2010:** Molekularer Wirkungsmechanismus des CAA Fungizides Mandipropamid. 57. Deutsche Pflanzenschutztagung, Berlin, *Julius-Kühn-Archiv* **428**, Abstract 09-5, 113-114.
- 11. BLUM, M. and GISI, U. 2012:** Insights into the molecular mechanism of tolerance to Carboxylic Acid Amide (CAA) fungicides in *Pythium aphanidermatum*.
Pest Management Science **68**, 1171-1183.
- 12. BLUM, M., GAMPER, H.A., WALDNER, M., SIEROTZKI, H. and GISI, U. 2012:** The cellulose synthase 3 (*CesA3*) gene of oomycetes: Structure, phylogeny and influence on sensitivity to Carboxylic Acid Amide (CAA) fungicides.
Fungal Biology **116**, 529-542.