

## List of Publications

### I. Books

1. Chet, I. 1967. The structure and behaviour of the fungus *Sclerotium rolfsii*. Ph.D. Thesis. Supervised by Prof. Y. Henis
2. Huttermann, A. and I. Chet (eds.). 1986. Soil-Plant Interaction. Gottingen Bodenkundische Berichte, FRG, pp. 269.
3. Chet, I. (ed.). 1987. Innovative Approaches to Plant Disease Control. John Wiley & Sons, N.Y. pp. 372
4. Chet, I. (ed.) 1993. Biotechnology in Plant Disease Control. John Wiley & Sons, N.Y. pp. 373.

### II. Publications in Peer-Reviewed Scientific Journals

5. Henis, Y., I. Chet and Z. Avizohar-Hershenzon. 1965. Nutritional and mechanical factors involved in mycelial growth and production of sclerotia by *Sclerotium rolfsii* in artificial media and amended soil. *Phytopathology* 55:87-91.
6. Chet, I., Y. Henis and R. Mitchell. 1966. The morphogenic effect of sulfur containing amino acids, glutathione and iodoacetate on *Sclerotium rolfsii*. *J. Gen. Microbiol.* 45:541-546.
7. Henis, Y. and I. Chet. 1967. Mode of action of ammonia on *Sclerotium rolfsii*. *Phytopathology* 57:425-427.
8. Chet, I., Y. Henis and R. Mitchell. 1967. Chemical composition of hyphal and sclerotial walls of *Sclerotium rolfsii* Sacc. *Can. J. Microbiol.* 13:137-141.
9. Henis, Y. and I. Chet. 1968. The effect of nitrogenous amendments on the germinability of sclerotia of *Sclerotium rolfsii* and their accompanying microflora. *Phytopathology* 58:209-211.
10. Chet, I. and Y. Henis. 1968. The control mechanism of sclerotial formation in *Sclerotium rolfsii* Sacc. *J. Gen. Microbiol.* 54:231-236.
11. Chet, I. and Y. Henis. 1968. X-ray diffraction analysis of hyphal and sclerotial walls of *Sclerotium rolfsii*. *Can. J. Microbiol.* 14:815-816.
12. Henis, Y. and I. Chet. 1968. Development biology of sclerotia of *Sclerotium rolfsii*. *Can. J. Bot.* 46:947.
13. Henis, Y. and I. Chet. 1968. Experimental soil microbiology. The Hebrew University, Faculty of Agriculture, Rehovot (in Hebrew), pp. 18.

14. Chet, I., Y. Henis and N. Kislev. 1969. Ultrastructure of sclerotia and hyphae of *Sclerotium rolfsii* Sacc. J. Gen. Microbiol. 57:143-147.
15. Chet, I. and Y. Henis 1969. Effect of catechol and disodium EDTA on melanin content of hyphal and sclerotial walls of *Sclerotium rolfsii* Sacc. and the role of melanin in the susceptibility of these walls to (1+3) glucanase and chitinase. Soil Biol. Biochem. 1:131-138.
16. Chet, I. 1969. The role of sclerotial rind in the germinability of sclerotia of *Sclerotium rolfsii*. Can. J. Bot. 47:593-595.
17. Chet, I. and H.P. Rusch. 1969. Induction of spherule formation in *Physarum polycephalum* by polyols. J. Bacteriol. 100:673-678.
18. Melera, P.W., I. Chet and H.P. Rusch. 1970. Electrophoretic characterization of RNA from *Physarum polycephalum*. Biochim. Biophys. Acta 209:569-572.
19. Chet, I. and H.P. Rusch. 1970. RNA differences between sporulating and growing microplasmidia of *Physarum polycephalum* as revealed by sedimentation pattern and DNA-RNA hybridization. Biochim. Biophys. Acta 209:559-568.
20. Chet, I. and H.P. Rusch. 1970. Differences between hybridizable RNA during growth and differentiation of *Physarum polycephalum*. Biochim. Biophys. Acta 213:478-483.
21. Chet, I. and H.P. Rusch. 1970. RNA and protein synthesis during germination of spherules of *Physarum polycephalum*. Biochim. Biophys. Acta 224:620-622.
22. Chet, I.S. Fogel and R. Mitchell. 1971. Chemical detection of microbial prey by bacterial predators. J. Bacteriol. 106:863-867.
23. Huttermann, A. and I. Chet. 1971. Activity of some enzymes in *Physarum polycephalum* III. During spherulation (differentiation) induced by mannitol. Arch. Microbiol. 78:180-192.
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25. Okon, Y., I. Chet and Y. Henis. 1972. Lactose-induced synchronous sclerotium formation in *Sclerotium rolfsii* and its inhibition by ethanol. J. Gen. Microbiol. 71:465-470.
26. Assa, Y., B. Gestetner, I. Chet and Y. Henis. 1972. Fungistatic activity of lucerne saponins and digitonin as related to sterols. Life Sciences 11:637-647.
27. Chet, I., N. Retig and Y. Henis. 1972. Changes in total soluble proteins and in some enzymes during morphogenesis of *Sclerotium rolfsii*. J. Gen. Microbiol. 72:451-456.
28. Chet, I. and Y. Henis. 1972. The response of two types of *Sclerotium rolfsii* to factors affecting sclerotium formation. J. Gen. Microbiol. 73:483-486.

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30. Chet, I., N. Retig and Y. Henis. 1973. Changes in ribonucleases during differentiation (spherulation) of *Physarum polycephalum*. Biochim. Biophys. Acta 294:343-347.
31. Kislev, N. and I. Chet. 1973. Scanning electron microscopy of sporulating cultures of the myxomycete *Physarum polycephalum*. Tissue and Cell 5:349-357.
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33. Tirosh, R., A. Oplatka and I. Chet. 1973. Motility in a "cell sap" of the slime mold *Physarum polycephalum*. FEBS Letters 34:40-42.
34. Chet, I., Y. Zilberstein and Y. Henis. 1973. Chemotaxis of *Pseudomonas lachrymans* to plant extracts and to water droplets collected from the leaf surfaces of resistant and susceptible plants. Physiol. Plant Pathol. 3:473-479.
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36. Chet, I. and N. Kislev. 1973. Scanning electron microscopy of spherules of *Physarum polycephalum*. Tissue and Cell 5:545-551.
37. Okon, Y., I. Chet, N. Kislev and Y. Henis. 1974. Effect of lactose on soluble glucan production and on the ultrastructure of *Sclerotium rolfsii* Sacc. grown in submerged culture. J. Gen. Microbiol. 81:145-149.
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40. Assa, Y., I. Chet, B. Gestetner, R. Govrin, Y. Birk and A. Bondi. 1975. The effect of alfalfa saponins on growth and lysis of *Physarum polycephalum*. Arch. Microbiol. 103:77-81.
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46. Chet, I., P. Asketh and R. Mitchell. 1975. Repulsion of bacteria from marine surfaces. *Appl. Microbiol.* 30:1043-1045.
47. Chet, I. and R. Mitchell. 1976. Petroleum hydrocarbons inhibit decomposition of organic matter in seawater. *Nature* 261:308-309.
48. Kritzman, G., Y. Okon, I. Chet and Y. Henis. 1976. L-threonine metabolism in *Sclerotium rolfsii* and its relationship to morphogenesis. *Isr. J. Med. Sci.* 12:696-697.
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56. Kritzman, G., I. Chet and Y. Henis. 1977. The relationship between rhythmic hyphal growth and circadian formation of sclerotia in *Sclerotium rolfsii*. *Sacc. Can. J. Microbiol.* 23:959-963.
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61. Kritzman, G., I. Chet and Y. Henis. 1977. The role of oxalic acid in the pathogenic behaviour of *Sclerotium rolfsii* Sacc. *Exper. Mycol.* 1:280-285.
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65. Sjoblad, R.D., I. Chet and R. Mitchell. 1978. Chemoreception in the green alga *Danaliella tertiolecta*. *Curr. Microbiol.* 1:305-308.
66. Hadar, Y., I. Chet and Y. Henis. 1979. Biological control of *Rhizoctonia solani* damping-off with wheat bran culture of *Trichoderma harzianum*. *Phytopathology* 69:64-68.
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70. Bitton, G., D.A. Chuckran, I. Chet and R. Mitchell. 1979. Resistance of bacterial chemotaxis to blockage in petroleum waters. *Marine Pollution Bull.* 10:48-49.
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78. Stzejnberg, A., Z. Madar and I. Chet. 1980. Induction and quantification of sclerotia in *Rosellinia necatrix*. *Phytopathology* 70:525-527.
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