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Bibliography of Nematode Interactions with Other Organisms in Plant Disease Complexes

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Western Regional
Research Project W-56
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BIBLIOGRAPHY OF

NEMATODE INTERACTIONS WITH OTHER ORGANISMS

IN PLANT DISEASE COMPLEXES

February 1976

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Western Regional Research Project W-56

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C O N T E N T S

INTRODUCTION

The intent of this bibliography is to provide a source of indexed references for those interested in the expanding area of research which concerns nematode interactions with other pathogens and agents. First published in 1972 by Jatala and Jensen, the bibliography and index have been revised and expanded to include more than three hundred additional references appearing in the literature prior to February, 1976. During the January 1976 Western Regional Technical committee meeting, the bibliography was accepted as a Western Regional Publication.

The bibliography has been indexed as follows:

A. The index contains eight sections, each of which concerns the interactions of nematodes with particular kinds of agents. The sections are: Nematode- (1) Bacteria, (2) Fungi, (3) Viruses, (4) Nematodes, (5) Protozoa, (6) Insects, (7) Other Invertebrates, and (8) Algae, Lichens, Mosses.

B. Each of the eight sections of the index contains an alphabetical listing of associated nematode genera.

C. Each nematode entry is followed by a generic listing of interacting agents.

D. Following the name of each interacting agent, pertinent reference designations are given: first, an alphabetical letter corresponding to the senior author's last initial, and second, by an arabic number(s) which corresponds to the numerical designation of the reference. A reference may appear in more than one category if multiple interactions are indicated.

E. "Unclassified" divisions contain references in which the interacting agents were either not named or were too numerous for individual indexing.

For your convenience, the contents are unbound and punched (3 hole), thus enabling you to add to the references and to make notations in the index for entries that may have been missed or for future entries.

INSTRUCTIONS FOR USE OF INDEX

THE FOLLOWING EXAMPLE IS GIVEN TO FACILITATE EFFICIENT USE OF THE BIBLIOGRAPHY:

THE READER DESIRES TO SEARCH THE LITERATURE FOR REFERENCES CONCERNING INTERACTIONS OF *PRATYLENCHUS* AND *PHYTOPHTHORA*. THE FOLLOWING PROCEDURE IS RECOMMENDED:

1. IN INDEX, LOCATE SECTION OF NEMATODE-FUNGI INTERACTIONS (PAGE 5).

2. FIND *PRATYLENCHUS* IN ALPHABETICAL LISTING OF NEMATODE GENERA (PAGE 10).

3. UNDER *PRATYLENCHUS*, FIND *PHYTOPHTHORA* IN ALPHABETICAL LISTING OF FUNGI (LEFT-HAND COLUMN, PAGE 10).

4. THE FIRST REFERENCE LISTED IS I 3. TURN TO THE "I" SECTION OF THE BIBLIOGRAPHY AND FIND #3. (THE REFERENCE BY INAGAKI AND POWELL, 1969, CONCERNS INTERACTIONS OF *PRATYLENCHUS BRACHYURUS* AND *PHYTOPHTHORA PARASITICA* ON *NICOTIANA TABACUM*.)

5. THE SECOND REFERENCE, K 20, AND THE OTHER THREE REFERENCES (M 47 99 AND 100) WILL BE FOUND IN THE SAME WAY. ALL REFER TO *PRATYLENCHUS* - *PHYTOPHTHORA* INTERACTIONS.

MELOIDOGYNE (CONTINUED)
XANTHOMONAS C 30, I 6

UNCLASSIFIED C 37, G 49, M 14 15 29 30, O 4

NEOAPLECTANA (DD 136)
ACHROMOBACTER M 101

UNCLASSIFIED H 9

PRATYLENCHUS
ACTINOMYCETES W 4 5

AGROBACTERIUM D 24, M 118, S 37

PSEUDOMONAS A 27, D 23, T 30

RHIZOBIUM W 9

STREPTOMYCES W 4 5

XANTHOMONAS I 6

UNCLASSIFIED W 4 5

PRISTIONCHUS (DIPLOGASTER)
AGROBACTERIUM C 44 45 46

ERWINIA C 46

RHIZOBIUM J 11

SALMONELLA S 55

UNCLASSIFIED C 47

RHABDITELLA
UNCLASSIFIED C 35

RHABDITIS
ACTINOMYCETES K 10 11

ERWINIA C 68

RHABDITIS (CONTINUED)
PSEUDOMONAS C 68

UNCLASSIFIED B 25

ROTYLENCHULUS
PSEUDOMONAS S 3

RHIZOBIUM A 33

ROTYLENCHUS
PSEUDOMONAS L 11

SAPROZOIC NEMATODES
ACTINOMYCETES P 68 69

BACILLUS P 4

CLOSTRIDIUM B 14

PECTOBACTERIUM P 68 69

SALMONELLA W 8

UNCLASSIFIED C 42 43 44 45, J 21, K 2, W 8

TRICHODORUS
AGROBACTERIUM S 37

TYLENCHORHYNCHUS
CLOSTRIDIUM J 45

XANTHOMONAS L 32

UNCLASSIFIED M 15

XIPIHINEMA
PSEUDOMONAS S 84

XANTHOMONAS I 6

UNCLASSIFIED P 12

UNCLASSIFIED REFERENCES
B 51, F 21, G 18 22, H 85 110, K 1 2 3 4, L 31, M 12 14 122, P 5 64, R 23

APHELENCHUS (CONTINUED)
SUILLUS S 105

THIELAVIOPSIS M 16

VERTICILLIUM C 56, M 16, S 101

UNCLASSIFIED C 34

ASCARIDIA
YEAST B 30

BELONDLAIMUS
FUSARIUM C 84 85, H 74 78 79 80, M 90, P 13, S 61 63 64, Y 5

PYTHIUM J 37, L 20, P 13

RHIZOCTONIA P 13

SCLEROTIUM P 13

UNCLASSIFIED M 75

CAENORHABDITIS
MONACROSPORIUM M 98

CEPHALOBUS
FUSARIUM A 29, B 75

GLOMERELLA A 29

MONACROSPORIUM M 98

CHILOPLACUS
VERTICILLIUM S 99

CRICONEMOIDES
CLITOCYBE C 41

CYTOSPORA E 14

FUSARIUM H 105, J 18, W 14

NEMATODE TRAPPING FUNGI E 16

CRICONEMOIDES (CONTINUED)
PHYTHIUM D 23, H 105, L 28

DELADENUS
UNCLASSIFIED B 32

DICTYOCAULUS
PHILOBOLUS R 34 35

DITYLENCHUS
AGARICUS E 13

BOTRYTIS D 30

CATENARIA S 15

CHAETOMIUM A 15

FUSARIUM C 33, P 19, S 19

NEMATODE TRAPPING FUNGI D 34

DIDIODENDRON A 15

PENICILLIUM A 15

PERONOSPORA Y 3

PHYTOPHTHORA C 33, P 19

PYRENOCHAETA B 68

PYTHIUM C 33

UNCLASSIFIED A 15, B 6, C 34, F 6, K 43

OOLICHOORUS
FUSARIUM P 13

PHYTHIUM P 13

RHIZOCTONIA P 13

SCLEROTIUM P 13

DORYLAIMUS
- CEPHALOTHECIUM H 81
- NEMATODE TRAPPING FUNGI E 17
- PHYMATOTRICHUM H 81

EUCEPHALOBUS
- VERTICILLIUM S 99

EUDORYLAIMUS
- FUSARIUM M 3
- PLASMODIOPHORA S 71

GENERAL (NEMATODES NOT NAMED)
- ECTOMYCORRHIZAE S 17
- ENDOGONE S 47
- FUSARIUM A 6 16, B 7 8 73, C 68, D 29, E 9, H 47 55, N 11, P 10, S 30 58 60 61, W 24
- NEMATODE TRAPPING FUNGI C 77, P 15
- PHYTOPHTHORA G 51
- PLASMODIOPHORA S 70 71
- PYTHIUM G 51, S 17
- RHIZOCTONIA A 6, B 37, H 47, N 11, S 17
- ROOT ROT B 38 47 48, G 36, H 53 102 103, M 107, P 22
- PREDACEOUS FUNGI S 72
- THIELAVIOPSIS H 47
- VERTICILLIUM A 16, B 28, H 47, K 45, M 70 71 113, N 11, R 46, S 49 93 94 95 96 97 98 99 101 102, W 15 30, Z 2 3 4

HELICOTYLENCHUS
- APHANOMYCES T 32
- CATENARIA S 50
- FUSARIUM B 65, M 23 24, S 20 21 46
- NEMATODE TRAPPING FUNGI E 17
- MYCORRHIZAE B 16
- PLASMODIOPHORA J 29 30
- PHYTOPHTHORA B 16 17
- PYTHIUM A 25, H 51
- RHIZOCTONIA B 65, S 46 88
- UNCLASSIFIED H 63

HEMICRICONEMOIDES
- CATENARIA S 50

HEMICYCLIOPHORA
- CATENARIA S 50
- UNCLASSIFIED H 63

HETERODERA
- APHANOMYCES W 27 28
- ASPERGILLUS D 1
- BREVICORYNE N 3
- COLLETOTRICHUM D 44
- CYLINDROCARPON B 100, K 42
- DATYLARIA H 112
- ENDOGONE F 24
- FUSARIUM C 19, G 4, J 50, K 42, M 79, P 20, R 44 45, Z 1

HETERODERA (CONTINUED)
- GREY STERILE FUNGUS (PYRENOCHAETA) D 42, J 3 4, R 47
- NEMATODE TRAPPING FUNGI D 34 46, H 112
- OOSPORA D 45
- OPHIOBOLUS C 74 75 78, W 33
- PHYTOPHTHORA A 2, Z 1
- PLASMODIOPHORA K 44
- PYTHIUM W 25 26 27
- RHIZOCTONIA D 43 44 45, G 10 40, H 83, K 22, M 55 72, P 38 39 40 62, S 83
- SYNCHYTRIUM H 104
- VERTICILLIUM B 100, C 86, H 35 66, K 22, M 79, W 31
- UNCLASSIFIED D 41 42, G 9, K 21 22, M 74, S 82, T 57

HEXATYLUS
- PERONOSPORA Z 7

HOPLOLAIMUS
- APHANOMYCES T 32
- CATENARIA S 50
- FUSARIUM L 2, N 1, O 13, S 89, W 14
- RHIZOCTONIA B 90
- SCLEROTIUM R 3

HOPOLAIMUS (CONTINUED)
- THELEPHORA R 50
- VERTICILLIUM T 47

LEPTOLAIMUS
- UNCLASSIFIED M 66

LONGIDORUS
- CATENARIA S 50
- HELMINTHOSPORIUM S 33
- PLASMODIOPHORA J 29 30

MARINE NEMATODES
- FILAMENTOUS FUNGI M 65

MELOIDOGYNE
- ALTERNARIA B 20, C 30, M 84, P 54
- ARTHROBOTRYS M 57, O 6
- ASPERGILLUS B 35 36, D 21, M 85 86 87, P 55
- BOTRYTIS P 55
- CHAETOMIUM C 30
- CLADOSPORIUM C 30
- CURVULARIA K 29, P 55, S 52
- DACTYLARIA M 57
- ENDOGONE B 13
- FUSARIUM A 5 11 32, B 41 44 45 46 54 56 69 85 89, C 29 30 65 84 85, D 13 14 15 16 18 37, E 12 13, F 3 42, G 2 3 12 13 24 27 28, H 7 12 13 72 74 82 113, J 19 36 46 47 49, K 6 13 14 17 18 24 50, L 19 24, M 22 23 24 25 29 30 31

PARATYLENCHUS
- APHANOMYCES T 32
- FUSARIUM C 67, P 2

PELODERA
- PLASMODIOPHORA S 71

PRATYLENCHUS
- APHANOMYCES O 16 18, T 32
- ASPERGILLUS M 88
- BLACK ROOT ROT OF STRAWBERRY D 27, R 7, M 77
- CATENARIA S 50
- CLITOCYBE C 41
- CYLINDROCARPON H 37, 74
- FUSARIUM B 10 60, C 67, E 1 2 3 4 6 7 8 10, H 2 3 71 73 74 113, J 18, L 12, M 7 22 27 67, N 8 9, O 16 17 18, P 1 2 3, S 28 32 56 61 69 89, T 6 U 1, W 4 14 34, Y 8
- NEMATODE TRAPPING FUNGI D 34
- PERONOSPORA Z 7
- PHYMATOTRICHUM N 17
- PHYTOPHTHORA I 3, K 20, M 47 99 100
- PLASMODIOPHORA J 29 30
- PHYTHIUM B 60, D 23, H 50 51 84, K 40, R 38 39, S 6 7
- RHIZOCTONIA B 60, L 13 30, M 109, S 28

PRATYLENCHUS (CONTINUED)
- ROOT ROT COMPLEX OF TOBACCO J 13 14 15 16 17
- SCLEROSPORA B 55
- SCHLEROTIUM B 26, N 20
- THIELVAIOPSIS O 5
- TRICHODERMA E 1 2 3 4 5
- VERTICILLIUM A 1, B 39 53 99, C 40 70 71, D 47 48, F 1 4 5 7 8 9 10 11, G 7, M 48 49 80 105 106 110 111 112 113 114 115 116 117, O 7, R 24, Y 9
- UNCLASSIFIED C 16 17 54, G 39, H 68, J 1, N 9, S 30, Z 6

PRISTIONCHUS (DIPLOGASTER)
- FUSARIUM J 21 27
- VERTICILLIUM J 21 27

RADOPHOLUS
- CYLINDROCARPON B 76
- FUSARIUM B 64 65, D 39 40, F 12 15, L 24, N 7, S 88 89
- RHIZOCTONIA B 64 65
- THIELAVIOPSIS F 14
- UNCLASSIFIED D 38, S 30

RHABDITIS
- FUSARIUM J 21
- HELMINTHOSPORIUM P 10
- VERTICILLIUM J 21
- UNCLASSIFIED B 25, K 10 11

ROTYLENCHULUS
- FUSARIUM J 48, K 23, M 83, N 4, S 64 65
- RHIZOCTONIA B 90

ROTYLENCHUS
- FUSARIUM O 11, S 20 31 32
- VERTICILLIUM M 2

SAPROZOIC NEMATODES
- FUSARIUM A 28, B 74, J 26 27, N 11, P 4
- GLOMERELLA A 28
- PHYTOPHTHORA P 68 69 70
- PYTHIUM A 28
- RHIZOCTONIA A 28, N 11, P 68 69
- VERTICILLIUM J 26 27, N 11
- UNCLASSIFIED J 21 26

TRICHODORUS
- FUSARIUM B 60, L 21 22, M 22 23 24, N 8, P 13, S 63
- PHYMATOTRICHUM N 17
- PYTHIUM B 60 90, H 51, P 13
- RHIZOCTONIA B 60 90, P 13
- SCLEROTIUM P 13
- VERTICILLIUM C 69

TRICHOSTRONGYLID
- PILOBOLUS B 61

TYLENCHORHYNCHUS
- APHANOMYCES H 2 3, T 32
- CATENARIA S 50
- FUSARIUM D 14 15 16 18, H 75 76 77, J 49, K 35, M 22 23 24, N 8, V 7, W 14
- MYCORRHIZAL FUNGI B 16
- NEMATODE TRAPPING FUNGI E 17
- PHYMATOTRICHUM N 17
- PHYTOPHTHORA B 7 16, M 99 100
- PYTHIUM B 90, H 51, K 35
- RHIZOCTONIA B 90, K 25 26
- VERTICILLIUM J 49, O 14 15, S 101

TYLENCHULUS
- DEUTEROPHOMA L 1
- FUSARIUM F 13 16, O 1 2, P 2, V 6
- LASIODIPLODIA B 50
- NEMATODE TRAPPING FUNGI M 9
- PHYTOPHTHORA B 2 3 4 5
- UNCLASSIFIED C 62

TYLENCHUS
- APHANOMYCES T 32
- FUSARIUM H 103, K 35

TYLENCHUS (CONTINUED)
PHYMATOTRICHUM N 17

PYTHIUM K 35

SCLEROTIUM H 103

UNCLASSIFIED H 63

VISCOSIA
UNCLASSIFIED M 65 66

XIPHINEMA
APHANOMYCES T 32

CATENARIA S 50

CLITOCYBE C 41

CYLINDROCARPON B 71 72, M 96

CYTOSPORA E 14

ECTOMYCORRHIZAE R 32

FUSARIUM M 3

PYTHIUM H 51

UNCLASSIFIED P 12, H 63

UNCLASSIFIED REFERENCES
A 18 19, B 7 18 28 31 49 51 89 97, C 27 32 38 57 59 60 61, D 3 31, F 21, G 5 18 25, H 10 11 54 85, J 5 20, K 2 3 4 47 49, M 13 97 122 123 124, N 22, P 5 6 18 37 64, R 5, S 54 88

REFERENCES UNDER THIS SUBJECT ARE INDEXED ONLY ONE WAY. NO CROSS REFERENCES ARE USED.

APHELENCOIDES
DITYLENCHUS S 74

CRICONEMOIDES
BELANOLAIMUS J 34 35

PRATYLENCHUS B 87

TYLENCHORHYNCHUS J 34 35

HETERODERA
HETERODERA J 7, T 58

MELOIDOGYNE J 8 9 10, R 43

PRATYLENCHUS F 27, M 78 81

MELOIDOGYNE
DITYLENCHUS G 41

HELICOTYLENCHUS D 17 S 53

HETERODERA C 50, J 6, R 42

HOPLOLAIMUS B 58

MELOIDOGYNE C 49, J 7 39, K 30, M 92, N 10, S 108

PRATYLENCHUS A 14, B 59, C 51 52, J 39, S 48 53, T 61 62

ROTYLENCHUS R 6

TYLENCHORHYNCHUS A 14, S 48

XIPHINEMA D 17

PRATYLENCHUS
HELICOTYLENCHUS J 30 40

LONGIDORUS J 30, S 75, Y 9

MACROPOSTHONIA T 49

MELOIDOGYNE E 19 20, G 6 38 50, J 30

PRATYLENCHOIDES S 75

PRATYLENCHUS F 18

RADOPHOLUS O 3

TRICHODORUS J 40

TYLENCHORHYNCHUS C 48, T 49

UNCLASSIFIED H 67, Z 6

TRICHODORUS
LONGIDORUS B 92

TYLENCHORHYNCHUS
TRICHODORUS J 38

PRATYLENCHUS J 38

HELICOTYLENCHUS J 38

XIPHINEMA
UNCLASSIFIED R 8

UNCLASSIFIED REFERENCES
F 21, J 43, P 17

NEMATODE - PROTOZOA

APHELENCHOIDES
- UNCLASSIFIED P 60

DITYLENCHUS
- BODO C 18
- UNCLASSIFIED P 60

DORYLAIMUS
- DREPANOMONAS H 81

HETERODERA
- UNCLASSIFIED P 60

MELOIDOGYNE
- AMOEBA S 14
- UNCLASSIFIED L 35, M 94, P 60, W 32

PRISTIONCHUS (MESODIPLOGASTER)
- UNCLASSIFIED S 67

PARATYLENCHUS
- UNCLASSIFIED M 94

PRATYLENCHUS
- DUBOSCQUIA C 18
- UNCLASSIFIED M 94, P 60

SAPROZOIC NEMATODES
- AMOEBA C 43
- UNCLASSIFIED W 32

TYLENCHORHYNCHUS
- UNCLASSIFIED P 60

TYLENCHULUS
- UNCLASSIFIED P 60

XIPHINEMA
- BACILLIDIUM L 35
- UNCLASSIFIED W 32

UNCLASSIFIED REFERENCES
- W 3

NEMATODE - INSECT

BURSAPHELENCHUS
- MONOCHAMUS M 8

DELADENUS
- WOODWASPS B 32

GENERAL (NEMATODES NOT NAMED)
- UNCLASSIFIED B 67 83 84, H 108, M 21, P 34

MELOIDOGYNE
- LEUCINODES S 76
- MOONG-BEAN SHOOT BORER P 58
- STOMOPTERYX P 59

RHADINAPHELENCHUS
- RHYNCHOPHORUS G 45 46, H 1, J 44, M 1, S 51
- UNCLASSIFIED B 63, G 47

NEMATODE - OTHER INVERTEBRATES

REVIEW ARTICLES D 35

DITYLENCHUS
- MITES B 6

GENERAL (NEMATODES NOT NAMED)
- MITES N 5
- TARDIGRADES H 111
- TURBELLARIANS S 16

PELODERA
- MACROCHELID MITES P 33
- PERGALUMNAS R 36

TYLENCHORHYNCHUS
- PERGALUMNAS R 36

NEMATODE - ALGAE, LICHENS, MOSSES

APHELENCHOIDES
- STICHOCOCCUS S 45

DORYLAIMUS
- CHLORELLA H 81
- CHROOCOCCUS H 81
- TETRAEDRON H 81

GENERAL (NEMATODES NOT NAMED)
- LICHENS B 67
- MOSSES B 67

SAPROZOIC NEMATODES
- CHLOROPHYCEAE L 6

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