Journal of Nematology 35(4):ii–iv. 2004.

KEYWORD INDEX

1

1,3-dichloropropene (1,3-D) 302

4

4′,6-diamidino-2-phenylindole (DAPI) 244

A

Abbott's formula 178
acibenzolar-s-methyl 110
aerial infrared photography 48
aging 314
aldicarb 58, 65
amber 129
amphid 78
Ananas comosus 39
Anclostoma caninum 465
Anclostoma ceylanicum 465
animal-parasitic nematode 223
antagonism 422
Aphelenchida 133
Aphelenchina 218
Aphelenchoididae 7
Arachis glabrata 450
Arachis hypogaea 115, 395, 417, 433
Araeolamida 146
arginine kinase 252
Arkansas 375, 388
Artemisia vulgaris 437
Artogeia rapae 259
Ascaridida 146
Ascaris lumbricoides 465
Ascaris megalocephala 223
Ascaris suum 465

B

Bacillus megaterium 167
bacterial-feeding nematode 289
bactivorous nematode 187
barley 289
behavior 142
Belonolaimus 450
Belonolaimus longicaudatus 302
bermudagrass 302
Berntsenus brachycephalus 218
Beta vulgaris 35
biological control 178, 198, 271, 278
biological species concept 119
black root rot 17
botanical nematicide 437
Brassica hybrid 35
Brassica juncea 35
Brassica napus 35, 39
Brassica rapa 35
broad band reflectance 48
Brugia malayi 465
Bunonema 244
Burkholderia cepacia 167
Burkholderia cepacia complex 208, 212
Bursaphelenchus cocophilus 133
Bursaphelenchus xylophilus 7, 133

C

cabbage looper 259
Caenorhabditis briggsae 465
Caenorhabditis elegans 244, 314, 465
canola 35
Capsicum annum 430
catalase 314
cDNA 82
cell fusion 244
centriole 223
cephalob 233
Cerambycidae 7
chlorhexidine diacetate 458
chorismate mutase 82
chromosome 228
citrus 450
cladoceran 198
clover cyst nematode 289
cluster analysis 388
Columbia lance nematode 73
common bean 23
community structure index 294
competition 1, 178, 187, 422
compost 289
concomitant infection 422
conservation tillage 104
corn 58
cotton 48, 58, 73, 411, 422
cover crop 39
cowpea 110
crop loss 58, 73, 104
crop rotation 58
cropping system 73
Crotalaria juncea 39, 294
cryofixation 78
Cucurbita pepo 294
cultural practice 73
Cynodon hybrid 302
Cynodon dactylon 302
cyst 271, 458
cyst nematode 228, 271
cystic fibrosis 208, 212
cytogenetics 228

D

DAPI fluorescent microscopy 244
density dependence 98
desert 157
developmental profile 82
diamondback moth 259
Diaprepes abbreviatus 187
Diplogaster lheritieri 289
Diplogastrida 146
Diplogastrina 244
Dirofilaria immitis 465
Distolabrellus veechi 78
distribution 157

E

Easter lily 443
ecological index 450
ecology 157
egg 271
egg hatch 458
electrophoresis 278, 433
ELISA 278
emigration 115
endospore 198
endosymbiont 266
entomopathogenic nematode 142, 178, 187, 259
epidemiology 208
esterase phenotype 395, 433
ethylene 306
evolution 129, 133, 142, 146, 194
expressed sequence tag (EST) 194, 465

F

face pattern 78
Fergusobia 133
filaria 266
fine structure 244
foliar application 259
foraging 142
fossil 129
Fragaria × *ananassa* 17
free-living nematode 187
functional genomics 194

G

gene expression 252
genomics 465
genomovar 208
Globodera pallida 465
Globodera rostochiensis 465
glutaraldehyde 78
Glycine max 1, 58, 88, 104, 110, 252
Gossypium hirsutum 48, 58, 73, 411, 422
groundnut 115, 395, 417, 433
growth stimulation 306

H

Haemonchus contortus 465
halophyte 157
hatch inhibitor 458
hatch stimulator 458
Helicotylenchus digonicus 29
Helicotylenchus pseudorobustus 29
herbicide 88
Heterodera betulae 228
Heterodera glycines 1, 23, 88, 98, 104, 252, 271, 458, 465
Heterodera schachtii 35, 465
Heterodera trifolii 289
Heterorhabditis 178
hierarchical cluster analysis 388
hololectotype 218
Hoplolaimus 450
Hoplolaimus columbus 73
Hordeum vulgare 289
horizontal transmission 7
host race 433
host resistance 115
host search 142
host suitability 23
host-plant tolerance 73
human infection 212
hypersensitive reaction (HR) 115

I

immunoblot 278
immunofluorescence 278
immunogold labeling 278
imported cabbageworm 259
induced resistance 306
interaction 17, 88, 167
intercropping 39
Israel 157

K

key 233

L

lesion nematode 1, 17, 29, 289, 443
life span 314
Lilium longiflorum 443
lip sector 78
Litomosoides sigmodontis 465
Longidorus grandis n. sp. 375
Longidorus paralongicaudatus n. sp. 375

Longidorus paravineacola n. sp. 388
Longidorus vineacola 388
low temperature SEM 78

M

maize 58
malate dehydrogenase phenotype 395, 433
management 39, 58, 73, 104, 302, 411
manure 289
MAPK activation 306
marigold 39
meiosis 223, 228
Meloidogyne arenaria 29, 115, 198, 278, 404, 417, 433, 465
Meloidogyne chitwoodi 465
Meloidogyne hapla 289, 404, 417, 465
Meloidogyne haplanaria n. sp. 395
Meloidogyne incognita 1, 29, 48, 294, 404, 411, 422, 465
Meloidogyne javanica 29, 39, 82, 110, 404, 417, 430, 433, 465
Meloidogyne megadora 437
Meloidogyne paranaensis 465
mercuric chloride 458
Mermithida 146
Mesocriconema 450
Mesocriconema xenoplax 29
messenger RNA (mRNA) 82
microbial degradation 65
microbivorous nematode 187
mitogen-activated protein kinase (MAPK) 306
Mj-ba-1 82
Mj-cm-1 82
molecular barcode 119
Mollusca 146
Monacrosporium haptotylum 194
Monochamus alternatus 7
monoclonal antibody 278
morphology 119, 233, 375, 388
morphospecies 119
mugwort 437
multi-spectral reflectance 48
multiple infection 7
multiplication rate 98

N

natural control 178
Necator americanus 465
Negev 157
nematicide 58, 65, 302, 437, 443
nematode community 450
nematode-trapping fungus 39, 194
nematophagous fungus 271
new species 233, 375, 388, 395
Nippostrongylus brasiliensis 465
no-till 104
nonfilariid nematode 266
Nothacrobeles 233
nucleus 244

O

Olea europaea 29
Onchocerca ochengi 465
Onchocerca volvulus 465
organic amendment 294
Ostertagia ostertagi 465
overwinter survival 98
oxidative stress 314

P

paleontology 129
Panagrolaimus 119
paralectotype 218
parasite 129
parasitism 146, 194
parasitism gene 82
Parastrongyloides trichosuri 465
Pasteuria penetrans 198, 278
Pasteuria ramosa 198
pathogenic variability 430
peanut 115, 395, 417, 433
Pellioditis 187
penetration 115
pepper 430
perennial peanut 450
Phaseolus vulgaris 23
phylogeny 194, 198, 404
phytopathogenic nematode 198
Phytophthora nicotianae 167
plant parasitism 133
plant-parasitic nematode 198, 450
planting date 73
Plutella xylostella 259
polycomplex 223
polymerase chain reaction (PCR) 82
population dynamics 104
potato 289
Pratylenchus fallax 29
Pratylenchus penetrans 1, 17, 29, 289, 443, 465
Pratylenchus teres 78
Pratylenchus thornei 29
Pratylenchus vulnus 29
Pratylenchus zeae 78
Pristionchus pacificus 465

Q

Quebec 259

R

race 23, 430
rapeseed 35, 39
real-time quantitative RT-PCR 82
recombinant inbred 314
recombination nodule 223, 228
remote sensing 48
reniform nematode 39, 58, 65, 110, 422
replacement 1
reproduction 29, 88, 417
reproductive mode 404
resistance 23, 411, 417
resistance screening 35
reverse transcriptase PCR (RT-PCR) 82
rhabditid 266
Rhabditida 78, 146
Rhizoctonia fragariae 17
rhizosphere microorganism 167
ribosomal DNA (rDNA) 404
ribosomal RNA (rRNA) 119
ring nematode 29
RNA 82, 119
root-knot nematode 1, 29, 39, 48, 82, 110, 115, 278, 289, 404, 411, 417, 422, 430, 433, 437
root-lesion nematode 1, 17, 29, 289
Rotylenchulus reniformis 39, 58, 65, 110, 422

S

salicylic acid 306
sawdust 289
scanning electron microscopy (SEM) 78, 119, 233, 244, 375, 388, 395
Schistonchus 133
SDS-PAGE 278
seasonality 178
sequential infection 422
shikimate pathway 82
sodium hypochlorite 458
soil amendment 289
soil fumigation 302
Solanum tuberosum 289
southern root-knot nematode 411
soybean 58, 88, 104, 110, 252
soybean cyst nematode 1, 23, 88, 98, 104, 252, 271, 458
soybean root diffusate 458
Spain 29, 233
speciation 404
spiral nematode 29
Spirurida 146
squash 294
Steinernema 142, 178
Steinernema carpocapsae 259
Steinernema diaprepesi 187
Steinernema feltiae 259
Steinernema riobrave 187, 259
Steinernematid nematode 259
Steinernematidae 187
sting nematode 302
strain typing 208
strawberry 17
streptomycin sulfate 458
Strongylida 146
Strongyloides ratti 465
Strongyloides stercoralis 465
sugarbeet 35
sugarbeet cyst nematode 35
sunn hemp 39, 294
surface disinfestation 458
susceptibility 35
synaptonemal complex 223, 228
systemic acquired resistance (SAR) 110

T

Tagetes erecta 39
Taqman assay 82
Taxocara canis 465
taxonomy 78, 119, 218, 233, 375, 388, 395
Teladorsagia circumcincta 465
Teratorhabditis palmarum 244
Texas 395
tolerance 306, 411
toxicity 437
transcript 82
transmission electron microscopy (TEM) 244
Trichinella spiralis 465
Trichoplusia ni 259
Trichuris muris 465
Trichuris vulpis 465
tritrophic association 133
turf 302
Tylenchida 78, 133
Tylenchulus semipenetrans 167

V

vector 7
virulence 7

W

weed 39
weevil 187
Wolbachia 266
Wuchereria bancrofti 465

Y

yield 289

Z

Zea mays 58
Zeldia 233
Zeldia punctata 465
Zygotylenchus guevarai 29

AUTHOR INDEX

A

Abolafia, J. 233
Adams, B. J. 146
Ahren, D. 194
Aldrich, H. C. 278
Anderson, A. J. 306
Anderson, C. A. 443
Anderson, J. 314
Anderson, W. F. 417
Anwar, S. A. 306
Arakawa, Y. 7

B

Bague, G. 187
Baldwin, J. G. 244
Baltensperger, D. D. 35
Barker, K. R. 73
Belair, G. 259
Belmont, P. 314
Bendezu, I. F. 115
Bernard, E. C. 395
Bird, D. McK. 465
Blaxter, M. 119
Bordenstein, S. R. 266
Bradley, C. A. 88
Brito, J. A. 198, 278, 433

C

Campbell, J. F. 142
Carta, L. K. 78
Castillo, P. 29
Cetintas, R. 433
Charlson, D. V. 458
Chen, F. J. 271
Chen, P. 404
Chen, S. Y. 271
Chinnasri, B. 110
Clifton, S. W. 465
Costa, S. dos S. da R. 437
Crow, W. T. 302
Cummings, T. D. 58

D

Darso, J. 443
Dauphinais, N. 259
Davies, K. A. 133
Davis, R. F. 58, 411
Dey, J. 1
Dickson, D. W. 198, 278, 433
Dickstein, E. 167
Diez, A. 422
Dolinski, C. M. 244
Duncan, L. W. 167, 178, 187, 450
Dunn, D. C. 178, 187

E

Edmisten, K. L. 73
Eisenback, J. D. 395
El-Borai, F. E. 167
Erbe, E. F. 78
Etter, S. 443
Eyualem, A. 119

F

Fitch, D. H. A. 266
Fournier, Y. 259

G

Gallaher, R. N. 294
Gallant, C. E. 289
Gaska, J. M. 88
Giblin-Davis, R. M. 133, 198, 278, 302
Giraud, D. 443
Goldstein, A. 223, 228
Goldstein, P. 223, 228
Graham, J. H. 167, 178
Grau, C. R. 88
Grewal, P. S. 146
Grewal, S. K. 146

H

Hartman, G. L. 88
Hartman, P. 314
Henry, R. 289
Holbrook, C. C. 417
Hyman, B. C. 404

I

Ishii, N. 314

J

Jimenez-Diaz, R. M. 29

K

Kaisa, T. R. 218
Kaufman, H. W. 48
Kaya, H. K. 142
Kemerait, R. C. 58
Kerr, E. D. 35
Khan, A. A. 430
Khan, B. 430
Khan, M. R. 430
Kimpinski, J. 289
Koenning, S. R. 58, 73
Kurtzweil, N. C. 88

L

Lambert, K. N. 82
LaMondia, J. A. 17
Lawrence, G. W. 65, 422
Lawrence, K. S. 422
Lee, T. A., Jr. 395
Lewis, E. E. 142
Lickfeldt, D. W. 302
Lima, R. D. 433
LiPuma, J. J. 212
Long, J. H., Jr. 98

M

Macchia, E. T. 450
MacDonald, M. H. 252
MacGuidwin, A. E. 88
MacLeod, J. A. 289
Mahenthiralingam, E. 208
Maruniak, J. E. 198
Matthews, B. F. 252
May, O. L. 411
McCarter, J. P. 465
McCoy, C. W. 178
McKenry, M. V. 306
McLean, K. S. 65
McSorley, R. 294, 450
Melakeberhan, H. 1
Mendes, M. L. 433
Merlin, J. 223, 228
Metcalf, A. E. 404
Mitreva, M. 465
Morris, K. 133
Morrison, D. E. 73
Murphy, C. A. 78

N

Nadler, S. 142
Nguyen, K. 178, 187
Nico, A. I. 29
Nielsen, E. L. 35
Noel, G. R. 88, 104
Nong, G. 198

O

Oakley, T. R. 98

P

Painter, J. E. 82
Pedersen, W. L. 88
Pen-Mouratov, S. 157
Pena-Santiago, R. 233
Poinar, G. O., Jr. 129
Preston, J. F. 198, 278

R

Radewald, J. D. 443
Rakhimbaev, M. 157
Rice, J. D. 278
Riddle, L. J. 443
Rife, C. L. 35
Robbins, R. T. 375, 388
Roberts, P. A. 404
Ryan, M. F. 437

S

Sanderson, J. B. 289
Santos, M. S. N. de A. 437
Schmidt, L. M. 198
Schmitt, D. P. 39, 110
Shurley, W. D. 58
Sipes, B. S. 39, 110
Smith, J. R. 23
Starr, J. L. 115, 395
Steinberger, Y. 157
Stock, S. P. 142
Sturz, A. V. 289
Syvertsen, J. 450

T

Tan, L. 146
Thai, V. K. 252
Thomas, W. K. 133
Timper, P. 417
Todd, T. C. 98
Togashi, K. 7
Tomaszewski, E. K. 395
Tucker, M. L. 252
Tunlid, A. 194
Tylka, G. L. 458

V

Vandamme, P. 208

W

Wang, K.-H. 39, 294
Waterston, R. H. 465
Wax, L. M. 88, 104
Wergin, W. P. 78
Werren, J. H. 266
Westerdahl, B. B. 443
Wheeler, T. A. 48
Williams, D. S. 278

Y

Yang, K.-Y. 306
Ye, W. 375, 388
Young, L. D. 23

Z

Zellers, J. 178
Zuber, S. 314