

KEYWORD INDEX

1
1,3-dichloropropene (1,3-D) 289, 311, 318, 325
16S rDNA 110

5
5.8S gene 183

A
Afrina wevelli 191
Agaonidae 91
agricultural management 208
agroecosystem 208
alfalfa callus 147
allergen 178
Anguina agrostis 191
Anguina tritici 191
antibiotic resistance 178
Aphelenchoididae 91
Arabidopsis thaliana 147
Arachis hypogaea 208
arbuscular mycorrhizae 306
aseptic culture 147
Australia 239

B
bacterium 227
Belgium 83
Belonolaimus longicaudatus 110, 227, 285
biodiversity 161
biological control 142, 203, 239, 297
biology 52
biomonitor 161
Bolivia 121
boxwood 332
Bt corn 173
Burkholderia cepacia 203
burrowing nematode 147
bursa formation 46
bursa papilla 49
Buxus microphylla 332

C
Caenorhabditis 24
carrot 137
caudal papillae 63
Cephaloboides 28
character evolution 45
China 83
citrus 142
compost-amended soil 289
copulation 52
corn 173, 318
cotton 126, 311, 318
cover crop 285
Criconea 294
crop loss 126
cropping sequence 285
Crustorhabditis 17
Cruzema 18

D
dagger nematode 294
damage 137
Daucus carota 137
decline rate 121
deep sand soil 289
development 132, 227
diagnostics 191

Diaprepes abbreviatus 142
Diplogasteroidea 83
Diploscapteroides 27
Diptera 239
diversity 208
Dolichodoros heterocephalus 285
dormancy 121
drought 142

E
ecology 52, 161
egg 203
electron microscopy 203
endoparasitic bacterium 227
entomopathogenic nematode 73, 297
equivalence 178
ethoprop 318, 325
"Eurhabditis" 26, 39
European chafer 297
evolution 63, 73, 153

F
fecundity 121
fenamiphos 318, 325
Fergusobia 239
Fergusonina 239
Ficus 91
fig 91
Florida 91, 285
flue-cured tobacco 132
fly 239
food safety 178
fumigation 289
fungus 306

G
gall development 239
gelatinous matrix 203
gene expression 116
genetic engineering 173, 178
Globodera pallida 195
Globodera rostochiensis 121, 195
Globodera tabacum solanacearum 132
Glomus mosseae 306
Glycine max 214, 306, 314
glycoalkaloid 195
Gossypium 318
Gossypium hirsutum 126, 311

H
hatching factor 195
hatching inhibitor 195
Hawaii 294
Helicotylenchus 294
Hemicycliophora 285
Heterodera 183
Heterodera carotae 183
Heterodera ciceri 183
Heterodera fici 183
Heterodera glycines 214, 219, 306
Heterodera hordecalis 183
Heterodera mediterranea 183
Heterorhabditis bacteriophora 297
history 5
holly 332
homology 63
host suitability 314
host-parasite relationship 302
host-plant resistance 126
hydraulic lift 142

I
identification 191
Ilex 332
integrity 161
internal transcribed spacer (ITS) 73, 104, 183
irrigation 294
ITS region 73, 104
ITS1 183
ITS2 183

L
Lactuca 137
Lantana 332
leptoderan bursa 46
lesion nematode 294
lettuce 137
life history 239
lipid 121
Longidorus africanus 137
Lycopersicon esculentum 116, 289

M
Macrosiphum euphorbiae 116
management 214, 285
maturity index 161, 208
Medicago sativa 147
Meloidogyne 116, 203, 294
Meloidogyne arenaria 318, 325, 332
Meloidogyne incognita 126, 285, 289, 311, 318, 325, 332
Meloidogyne javanica 318, 325
Mesocriconea 285
Mesorhabditis 14
metasomal structure 45
method 147
Mi 116
microparasite 110
modeling 285
molecular systematics 73
monitoring 161
morphology 7, 54, 83
Mortierella 203
Mucuna pruriens 285
Musa 147
mutualism 239
Myrtaceae 239

N
needle nematode 137
nematicide 289, 311, 318, 325
nematode community 161, 208
nematode-mycorrhizal interaction 306
new species 83, 91
Nicotiana tabacum 132, 318, 325
North Carolina 126

O
obligate endoparasite 227
Operculorhabditis 17
ornamental 332
Oscheius 104
overwintering 219
oviposition 239

P
parasitism 91, 132
Parasitorhabditis 8
Paratrichodoros minor 285

Paratylenchus 294
Pasteuria 110
Pasteuria sp.(S-1 strain) 227
Pasteuria penetrans 110
 pathogenicity 302
 PCR-RFLP 104, 191
 pea 214
 peach 302
 peanut 208
Pegoscapus 91
Pellioiditis 35
Pelodera 20
 peloderan bursa 46
 perennial 332
 pest management 121, 173, 325
 phoresy 91
 phylogenetic analysis 183
 phylogeny 1, 8, 54, 73, 110, 153
 pin nematode 294
Pisum sativum 214
 population dynamics 219, 285
 population model 121
 potato 121, 285
 potato cyst nematode 121, 195
 potato root diffusate 195
 potato root leachate 195
Pratylenchus 294
Pratylenchus vulnus 302
Prodontrhabditis 13
Protorhabditis 10
Prunus persica 302

R

Radopholus similis 147
 regulatory nematology 191
 relationship 39, 42
 reniform nematode 294, 311, 314
 reproductive index 314
 resistance 132, 302, 332
Rhabditella 27
 Rhabditidae 1
 Rhabditinae 8, 42, 45, 52
Rhabditis 13, 30
Rhabditis (Oscheius) pseudodolichura 104
Rhabditoides 26

Rhabpanus 19
Rhizotrogus majalis 297
 ribosomal DNA (rDNA) 73, 183
 ribosomal RNA (rRNA) 104
 ring nematode 294
 root-knot nematode 116, 203, 285, 289, 294,
 311, 318, 325, 332
 root-lesion nematode 302
 rootstock 302
 rotation 121, 314, 318
Rotylenchulus 294
Rotylenchulus reniformis 311, 314
 RT-PCR 116
 rye 318

S

safety assessment 178
 scanning electron microscopy (SEM) 91
Schistonchus aureus n. sp. 91
Schistonchus laevigatus n. sp. 91
 screening 132
Secale cereale 318
 seed gall nematode 191
 signal transduction 116
 soil health 161, 169
 soil moisture 142
 soil organic matter 169
 soil quality 169
Solanum tuberosum 121, 285
Sorghum 318
Sorghum bicolor 285
 sorghum-sudangrass 285
 southern root-knot nematode 126
 soybean 214, 306, 314
 soybean cyst nematode 214, 219, 306
 speciation 153
 species concept 153
 species delimitation 73, 153
 species diagnosis 73
 spiral nematode 294
 sporogenesis 227
Steinernema 73
Steinernema carpocapsae 297
Steinernema feltiae 297
Steinernema glaseri 297

AUTHOR INDEX

A

Adams, B. J. 73, 153
 Allen, L. H., Jr. 289
 Atkinson, H. J. 121

B

Barker, K. R. 126
 Becker, J. O. 110, 227
 Bekal, S. 110, 227
 Bélair, G. 297
 Bertozzi, T. 191
 Borneman, J. 110
 Bowman, D. T. 126
 Brodeur, J. 297
 Broos, S. 147
 Byrne, J. T. 195

C

Center, B. J. 239
 Center, T. D. 239
 Chen, S. Y. 214
 Chitwood, D. J. 203
 Crow, W. T. 285

D

Davies, K. A. 239
 Davis, R. F. 332
 De Ley, P. 83
 De Waele, D. 147
 DeCrappeo, N. 91
 Dickson, D. W. 227, 285, 289
 Dombek, D. G. 314
 Duncan, L. W. 142

E

Eisenback, J. D. 132
 Elsen, A. 147
 Erbe, E. F. 203

F

Félix, M.-A. 104
 Ferris, V. R. 183
 Fitch, D. 1
 Fortnum, B. A. 318, 325
 Franco, J. 121

G

Gbur, E. E. 314
 Giblin-Davis, R. M. 91, 110, 227, 239

Steinernema robrave 142
 sting nematode 110, 227, 285
 stubby-root nematode 285
 survival 219
 systematics 1, 73, 104, 153

T

tail tip 63
 taxonomy 73, 83, 91, 110, 153
 temperature 132
Teratorhabditis 23
 tobacco 318, 325
 tobacco cyst nematode 132
 tolerance 137
 tomato 289
 toxicant 178
 transgenic crop adoption 173
 trap crop 214
 trophic diversity 161
 turfgrass pest 297
 Tylenchida 239
Tylenchorhynchus 285
Tylopharynx clariamphida n. sp. 83
Tylopharynx foetida 83

U

ultrastructure 227

V

velvetbean 285
 vesicular-arbuscular mycorrhizae 306

W

water potential 142
 watershed 294

X

Xiphinema 294
Xylorhabditis 20

Z

Zea mays 318

Goolsby, J. 239
 Griesbach, J. A. 191

H

Harris, T. S. 191
 Hewlett, T. E. 227
 Holz, R. A. 121
 Huang, X. 137
 Hyde, J. 173

J

Jackson, L. E. 314
 Johnson, A. W. 318, 325
 Johnson, C. S. 132
 Jones, P. W. 195

K

Kaloshian, I. 116
 Kinloch, R. A. 219, 311
 Klossner, L. D. 214
 Koenning, S. R. 126
 Kritzman, G. 203

L

Lavian, I. 208
 Lens, K. 147

Lewis, S. A. 318, 325
Liang, W. 208
Liang, Y. 83

M

MacGuidwin, A. E. 219
Magdoff, F. 169
Maher, N. J. 195
Main, G. 121
Makinson, J. 239
Martin, M. A. 173
Martinez de Ilarduya, O. 116
Maruniak, J. 73
Mauromoustakos, A. 219
McCoy, C. W. 142
McSorley, R. 285
Meyer, S. L. F. 203
Mullin, P. G. 191

N

Neher, D. A. 161
Nelson, S. D. 289
Nguyen, K. B. 73
Nguyet, D. T. M. 147
Niblack, T. L. 219
Nyczepir, A. P. 302

Orion, D. 203
Oros, R. 121

O

P

Peterson, L. G. 289
Pinochet, J. 302
Ploeg, A. T. 137
Porter, P. M. 214
Powers, T. O. 191
Purcell, M. 239

R

Rakes, L. 219, 314
Reese, C. D. 214
Rich, J. R. 311
Riegel, C. 289
Riga, E. 121
Riggs, R. D. 219
Robbins, R. T. 314

S

Sabo, A. 183
Scheffer, S. J. 239
Schmitt, D. P. 294
Simard, L. 297

Springer, M. S. 110
Steinberger, Y. 208
Stienstra, W. C. 214
Stoffelen, R. 147
Sudhaus, W. 1
Szalanski, A. L. 191

T

Taylor, G. S. 239
Taylor, S. L. 178
Todd, T. C. 306

V

Vanfleteren, J. 104
Vierstraete, A. 104
Vovlas, N. 183

W

Wang, J. 132
Weingartner, D. P. 285
Wergin, W. P. 227
Williams, D. S. 227
Williams-Woodward, J. L. 332
Wilson, G. W. T. 306
Winkler, H. E. 306
Wu, J. 83

Z

Zhang, F. 294