
INDEX

KEYWORD INDEX

- 1**
1,3-dichloropropene (1,3-D) 464, 496, 506
16S rDNA 229
- 2**
28S rDNA 134
- A**
Acacia 549
accumulation 362
Acrobes complexus 13
air-drying 302
aldicarb 433, 482, 496, 506
altered susceptibility to cyst nematodes (asc) 166
ammonium bicarbonate 477
ammonium sulfate 477
anaerobic metabolism 270
Antarctica 143
antibody 174
Aphelenchina 396, 403
Aphelenchoides besseyi 302
Aphelenchoides microstylus n. sp. 396
apophysis 244
Appalachia 389
apparatus 411
Arabidopsis thaliana 166
Arachis hypogaea 52
archipelago 215
attraction 362
Avena sativa 42
Azores 215
- B**
Bacillus thuringiensis 70
bacterial antagonist 70
bacterium 78, 183, 370
banana 126, 134
bark beetle 396
barley 531, 540
Belonolaimus longicaudatus 205, 210, 296, 317, 343, 477
beta-1,4-endoglucanase (EGase) 154
biological control 70, 78, 85, 183, 190, 215, 280, 288, 370, 377
Bird, Alan Francis 1
black locust 389
Brassica oleracea 343
brewery compost 70
burrowing nematode 126
bursa 234
Bursaphelenchus xylophilus 110
- C**
cabbage 343
Caenorhabditis elegans 126, 198, 234, 331, 362
canola 531, 540
Capsicum annuum L. 356
Capsicum chinense Jacq. 356
cassava 415
Catharanthus roseus 477
Cephalobidae 13
Cerambycidae 389
cereal crop 42
Ceroidellus alutus 13
chemical control 433
chickpea 531
China 252
chitin 70, 370
chitinase 288
chitinase-producing bacterium 370
chitinolytic bacterium 370
chloropicrin 496, 506
citrus 126, 134, 280
citrus nematode 562
Coleoptera 389
Columbia lance nematode 490
Columbia root-knot nematode 496
compendium 20
control 531
corky ringspot 506
corn 573
cotton 52, 205, 210, 257, 296, 448, 453, 459, 482, 490, 516
cover crop 42, 490
Criconelematoidea 35
crop loss 205, 317, 442, 459
crop rotation 52, 296, 540
crop sequence 471
cropping system 296
cross-absorption 5
cryobiology 198
Cryptaphelenchoides scolyti 403
Cucurbita pepo 464, 477
culture 280
culture filtrate 117
cuticle 13, 174
cyst nematode 62, 426
- D**
damage function 205, 317, 442
damage threshold 205
detection 5
development 234, 264
diagnosis 20
Diaprepes abbreviatus 280
Diploscapter 362
disease management 42
disease survey 516
Distolabrellus veechi 198, 362
distribution 433
DNA sequencing 229, 331
Dolichodorus heterocephalus 477
double-cropping 296
durable resistance 453
- E**
ecology 143, 343, 362
economic threshold 210, 317
efficacy 464
EGase 154
egg 126, 190, 411
Egypt 418
Ektaphelenchus macrostylus 403
Ektaphelenchus obtusus 403
Ektaphelenchus riograndensis 403
Ektaphelenchus scolyti 403
electron microscopy 5, 174
endochitinase 288
endospore 78
energy reserve 270
entomopathogenic nematode 215, 223, 229, 270, 280
environment 143
Escherichia coli OP50 362
esophageal gland cell 154
ethoprop 433, 496, 506
ethyl methanesulfonate (EMS) 166
evolution 126, 134
Exophiala pisciphila 190
expressed sequence site (EST) 331
extraction 78, 411
- F**
faba bean 531, 540
fallow 42, 210, 540
Ferris, John M. 125
field microplot 70
field pea 531, 540
flue-cured tobacco 426
forest tree 549
formulation 280
fosthiazate 496, 506
Fragaria ananassa 183
freeze response 198
frequency 433
fumigant 496, 506
fumigation 464
fungal antagonist 70
fungus 190, 288, 516
Fusarium oxysporum 190
Fusarium solani 190
- G**
galling index 415
genetic diversity 143
genetic variability 229
genetics 126, 134, 143
genital tract 244
giant cell 322
Gliocladium catenulatum 190
Globodera tabacum 62, 154, 426
glycerol 270
Glycine max 334, 349, 370, 377, 411, 442, 524, 554
glycogen 270
Gossypium hirsutum 52, 205, 210, 257, 296, 448, 453, 459, 482, 490, 516
grape 264
Greece 35
growth promotion 183
- H**
habanero 356
hatch 190

heat stability 356
Helicotylenchus spp. 433
Helicotylenchus dihystra 52
Hemicyclophora hellenica n. sp. 35
 hermaphrodite 126
Heterodera glycines 117, 190, 334, 349, 370, 377, 411, 442, 524
Heterodera schachtii 166
Heterorhabditis 215
Hirsutiella rhossiliensis 85
 homology 234
Hoplolaimus columbus 490
 host differential 349
 host plant 418
 host range 42
 host resistance 453
 host suitability 531, 549, 573
 host-parasite relationship 101, 349
 host-plant resistance 442, 459

I

ice-nucleating activity (INA) 198
 identification 20
 immunocytochemistry 174
 immunogold labelling 5
 in vitro 166
 INA agent 198
Indaphelenchus siddiquii 396
 inoculation 411
 integrated pest management (IPM) 477
 internal transcribed spacer (ITS) 229
 ITS1 134, 229

J

juvenile 117, 190

K

karyotype 126
 key 20

L

Lactuca sativa 70, 85
 lectotype 403
 lentil 540
 lesion nematode 183, 433, 471, 531, 540
 lettuce 70, 85
 light quality 101
 lipid 270
 localization 5
 locust borer 389
 Louisiana 448
Lycopersicon esculentum 101

M

male 252
 male tail 234
 management 52, 302, 433, 464, 482, 490, 516, 540
Manihot esculenta 415
 marigold 471
 medic 531

Megacyllene robiniae 389
Meloidogyne spp. 78, 264
Meloidogyne arenaria 52, 264, 464, 573
Meloidogyne chitwoodi 496
Meloidogyne graminicola 308
Meloidogyne hapla 70, 85, 288
Meloidogyne incognita 52, 101, 174, 257, 264, 296, 322, 356, 415, 448, 453, 464, 477, 516, 573
Meloidogyne javanica 549
Mesocriconea 433
 metam sodium 496, 506
 method 411
 methodology 322
 microwave fixation 322
 mitochondrial DNA (mtDNA) 143, 229
 modeling 210
 molecular systematics 234
Monochamus alternatus 110
 morphology 20, 35, 143, 234, 244, 389
 morphometrics 252
 mortality 117
 movement 223
 mulch 101
Musa acuminata 126, 134
 mutant 166
Myctolaimellus robiniae n. sp. 389

N

nematicide 52, 302, 482, 496, 506
Neocosmophora vasinfecta 190
 new combination 396
 new species 35, 389, 396
 New York 396
 niche depth 343
Nicotiana tabacum 62, 154, 288, 426
 northern root-knot nematode 70, 85, 288
 nutrition 362

O

oat 42, 531
 obituary 1, 125
 oogenesis 126
 organic soil 85
Oryza sativa 302, 308
Oscheius myriophila 362
 ovary 126
 ovatestis 126
 oviduct 244
 oxamyl 482, 496, 506
 oxygen deficiency 270

P

Pacific Northwest 42
Paecilomyces lilacinus 190
Paecilomyces marquandii 70
Panagrellus redivivus 198, 362
Paratrichodorus spp. 433, 506
Paratrichodorus anemones 5
Paratrichodorus minor 343, 477
 parthenogenesis 126
Pasteuria spp. 562

Pasteuria penetrans 78
 pathogenicity 308, 415
 pathotype 134, 264
 peanut 52
 peanut root-knot nematode 573
Pelodera strongyloides 362
 pest management 42
 photomorphogenesis 101
 phylogeny 13, 134, 234, 362
 physiology 270
 phytoparasitic nematode 418
 pine wilt 110
 pinewood nematode 110
Pinus sylvestris 396
 planting date 334
 plastic mulch 101
 polar body 126
 polyethylene 101
 population dynamics 42, 210, 257, 334, 562
 potato 296, 317, 343, 471, 496, 506
Pratylenchus 433
Pratylenchus agilis 198
Pratylenchus neglectus 531
Pratylenchus penetrans 42, 183, 471
Pratylenchus thornei 540
 predator 396
Pristionchus pacificus 198, 362
 protein 270
Pseudomonas chlororaphis 183
 purification 78
Pyrenochaeta terrestris 190

Q

quarantine 126, 134

R

race 134
 race determination 349
Radopholus similis 126, 134
 rectal gland 174
 reniform nematode 459, 482, 554
 repellence 362
 reproduction 126, 264, 549
 reproduction resistance 62
 reproductive index 349, 554
 resistance 288, 356, 531, 540, 549, 573
 Rhabditidae 234, 362
 rhizobacteria 377
 rhizosphere bacterium 183
 ribosomal DNA (rDNA) 134, 229, 234
 ribosomal RNA (rRNA) 143
 rice 308
 rice seed 302
 ring nematode 433
Robinia pseudoacacia 389
 root destruction 490
 root galling 453
 root-knot 101, 453
 root-knot nematode 52, 78, 101, 174, 257, 296, 356, 464, 549
 rootstock 264
 rotation 531, 554

Rotylenchulus reniformis 448, 459, 482, 554
rye 490

S

Saccharum officinarum 433
safranin-O staining 5
sampling 257, 343
Scotch Bonnet pepper 356
Scots pine 396
Scottnema lindsayae 143
screening 549
Secale cereale 490
second-stage juvenile 117
Seinura onondagensis n. sp. 396
signal transduction 166
sodium diatrizoate 78
soil amendment 70
soil biodiversity 143
soil edaphic factor 426
soil moisture 223
soil temperature 356
soil-borne pathogen 42, 356
Solanum tuberosum 296, 317, 343, 471, 496, 506
Sorghum bicolor 343
Sorghum sudanense 42
sorghum-sudangrass 343
southern root-knot nematode 573
soybean 334, 349, 370, 377, 411, 442, 554
soybean cyst nematode 190, 334, 349, 370, 377, 411, 442, 524
soybean determinacy 524
soybean maturity group 334, 524
Spain 562
spatial distribution 223, 257
species concept 134
specificity 5
sperm 126, 252
spiral nematode 52, 433
squash 464, 477
Stagonospora heteroderiae 190
Steinernema spp. 215, 229
Steinernema carpocapsae 270
Steinernema riobrave 223, 280

A

Abawi, G. S. 70, 85
Alcaide, A. 562
Amaral, J. 215
Anwar, S. A. 264
Aref, I. M. 549
Arsenault, W. J. 471

B

Baird, R. E. 490
Baker, K. R. 459
Baldwin, J. G. 13
Baugh, B. 257
Baujard, P. 13
Baum, T. J. 154, 166
Bedding, R. A. 270
Bird, D. McK. 331

sting nematode 205, 210, 296, 317, 343
storage-root formation 415
strawberry 183
Streptomyces costaricanus 70
stubby-root nematode 5, 343, 433, 506
stunt nematode 20, 433
stylet secretion 154
sudangrass 42
sugarcane 433
supercooling 198
suppressive soil 426
surface coat 174
survey 215, 418, 448, 573
survival 270
susceptibility 531, 549
sustainable agriculture 477
syncytium 166
synonym 396
systematics 143, 389

T

Tagetes erecta 471
Tagetes patula 471
Tagetes tenuifolia 471
taxonomy 20, 35, 134, 143, 252, 389, 396, 403
technique 117, 389
temperature 110
temperature effect 349
temporal variability 257
Texas 453, 516
Thielaviopsis basicola 516
tobacco 62, 154, 288
tobacco cyst nematode 62, 154, 426
tobacco rattle virus 5, 506
tolerance 308, 459
tomato 101
toxicity 190, 362
toxin 190
transgenic 288
transmission 110
transmission electron microscopy (TEM) 244, 322

AUTHOR INDEX

Bond, J. P. 433
Bonifassi, E. 215
Bowman, D. T. 459
Brants, A. 288
Brown, C. R. 288
Brown, D. J. F. 5, 252

C

Carta, L. K. 198, 362
Charnecki, J. 78
Chen, J. 70
Chen, S. Y. 78, 117, 190
Cho, M. R. 244
Clifton, S. W. 331
Coomans, A. 13
Courtright, E. M. 143
Crippen, D. L. 370
Crow, W. T. 205, 210, 296, 317

trehalose 270
Trichoderma harzianum 288
Trichodoridae 5
triticale 531
Triticum aestivum 52, 490
Tylenchorhynchus spp. 20, 433
Tylenchulus semipenetrans 562

U

ultrastructure 13, 174, 244, 252
uterus 244

V

variability 257, 264
vegetable breeding 356
vertical distribution 223
Verticillium chlamydosporium 85, 190
vetch 531, 540
viability 190
vinca 477
virulence 264
virus infection 5
Vitis 264

W

water regime 308
water-soaking 302
Web site 331
weed 42
wheat 42, 52, 490, 531, 540
wheat mash 70
white tip nematode 302

X

Xiphinema coxi coxi 244
Xiphinema insigne 252

Y

yield 334
yield loss 205, 317, 442, 459

Z

Z-organ 244
Zea mays 573
Zeldia punctata 13, 362

D

Davis, E. L. 154
Davis, R. F. 490, 573
De Boer, J. M. 154
De Ley, P. 13
Decoteau, D. R. 101
Dever, J. K. 516
Dickson, D. W. 78, 117, 190, 205, 296, 317, 464
Dombek, D. G. 554
Dowler, C. C. 52

E

Earle, E. D. 288
Eastwood, R. F. 540
Eisenback, J. D. 62, 426
El-Sherbiny, A. A. 418

Erbe, E. F. 198

F

Faddoul, J. 264
Faghihi, J. 411
Ferris, J. M. 411
Fery, R. L. 356
Fitch, D. H. A. 234
Forge, T. A. 42, 183
Forner, J. B. 562
Fortnum, B. A. 101
Frisse, L. M. 134, 143

G

Gallant, C. E. 471
Gbur, E. E. 554
Goellner, M. 154
Gouge, D. H. 223

H

Hackenberg, C. 183
Hake, K. D. 516
Hamm, P. B. 496, 506
Handoo, Z. A. 20, 52, 418
Hardy, K. A. 166
Harman, A. 389
Harman, D. 389
Henneberry, T. J. 223
Hollaway, G. J. 531, 540
Hoshino, S. 302
Hoy, J. W. 433
Hu, G. G. 174
Hunt, C. H. 531, 540

I

Ibrahim, A. A. M. 549
Ibrahim, I. K. A. 418
Ingham, R. E. 42, 496, 506

J

Jackson, L. E. 554
Jikumaru, S. 110
Johnson, A. W. 52
Johnson, C. S. 62, 426

K

Kaisa, T. R. 396, 403
Kaplan, D. T. 126, 134
Karanastasi, E. 5
Kasperbauer, M. J. 101
Kaufman, D. 42
Kaufman, H. 257
Kim, K. S. 244
Kimpinski, J. 471
Koenning, S. R. 442, 459

L

Lacey, L. A. 215
Laumond, C. 215
Lawrence, G. W. 448, 482

Lee, L. L. 223
Long, J. H., Jr. 524

M

MacFarlane, S. A. 5
Makumbi-Kidza, N. N. 415
Marin, D. H. 134
Matias, D. M. 308
Mauromoustakos, A. 334
McCarter, J. P. 331
McClure, M. A. 174
McCoy, C. W. 280
McGawley, E. C. 433
McGovern, R. J. 477
McKenry, M. V. 264
McLean, K. S. 448, 482
McNeill, R. D. 490
McSorley, R. 205, 210, 317, 343, 477
Miller, G. L. 205, 210
Mitchell, D. J. 190
Mounport, D. 13
Muehlchen, A. 183
Mullin, P. G. 229
Murphy, C. A. 198, 322

N

Nance, J. L. 464

O

Oakley, T. R. 524
Opperman, C. H. 126, 134
Orion, D. 322
Ornat, C. 562

P

Palmateer, A. J. 349
Perez, E. E. 343
Peterson, L. G. 464
Pinkerton, J. N. 42
Pons, J. 562
Preston, J. F. 78
Prot, J.-C. 308

Q

Qiu, L. 270

R

Rakes, L. 334, 554
Reed, T. D. 426
Rideout, S. L. 62, 426
Riegel, C. 464
Riggs, R. D. 334, 370, 377
Robbins, R. T. 244, 252, 554
Roberts, I. M. 5
Rodermel, S. R. 166
Rosa, J. S. 215
Russin, J. S. 349

S

Sanderson, J. B. 471
Sarah, J. L. 134
Schmidt, M. E. 349
Schmitt, M. E. 174
Schuster, G. 257
Shapiro, D. I. 280
Siders, K. 257
Sikora, R. A. 415
Simoes, N. 215
Smant, G. 154
Smith, K. A. 223
Soriano, I. R. S. 308
Sorribas, F. J. 562
Speijer, P. R. 134, 415
Stanton, J. M. 134
Starr, J. L. 453
Stetina, S. R. 349
Su, H. 166
Swanson, W. H. 496, 506
Szalanski, A. L. 229

T

Taylor, D. B. 229
Taylor, S. P. 531, 540
Thies, J. A. 356
Thomas, W. K. 134, 143
Tian, H. 370, 377
Timper, P. 573
Todd, T. C. 524
Togashi, K. 110, 302

V

Van de Velde, M. C. 13
Vassilakos, N. 5
Verdejo-Lucas, S. 562
Viaene, N. M. 85
Vida, J. T. 143
Virginia, R. A. 143
Vovlas, N. 35
Vrain, T. 183

W

Wall, D. H. 143
Waterston, R. H. 331
Weingartner, D. P. 205, 210, 296, 317, 343
Wergin, W. P. 198, 322
Wheeler, T. A. 257, 453, 516
Wilkinson, C. A. 62
Williams, R. E. 496, 506
Winter, J. 389
Wrather, J. A. 334
Wubben, M. J. E. 166

Y

Yaklich, R. W. 198

Z

Zheng, J. W. 252
Zhou, E. 453
Zuckerman, B. M. 70