

Author names index for Volume 3, 4236

- Abbasi Sakineh, 509
Abd-Elaziz Edmardash Yusuf, 543
Abdoli Parisa, 357
Adly Dalia, 683
Afshari Ali, 255
Ahmadi Ali Reza, 75
Aleosfoor Maryam, 137
Alimohamadi Najmeh, 335
Allache Farid, 327
Ameri Ali, 233
Amin Mohammad-Reza, 581
Amini Jam Neda, 89
Arbabtafti Roya, 435
Ardeh Mohammad Javad, 631
Atapour Maryam, 147
Atighi Mohammad Reza, 691
Azadvar Mahdi, 345
Baghaee Ravari Sareh, 105, 345
Bagheri-Kheirabadi Mahmoud, 663
Bagheri Fatemeh, 191
Bahmani Jebraeil, 273
Bakhshizadeh Nakisa, 645
Bandani Ali Reza, 137
Barahoei Hossein, 199
Barooti Shapour, 273
Bayegan Zainab-Alssadat, 125
Berdi Fotouhifar Khalil, 425
Changizi Mohamad, 173
Darvishnia Mostafa, 113
Darvishzadeh Reza, 51
Davari Mahdi, 113, 663
Davoodi Azadeh, 137
Dehghanikhah Fahimeh, 181
Deljo Ali, 31
Demnati Fatma, 327
Didar Taleshmikael Rahim, 113
El-Gantiry Aziza M., 683
Emami Mohammad Saeed, 597
Farahani Samira, 233
Farsi Afrooz, 487
Fassihi Mohammadtaghi, 435
Fathi Sayed Ali Asghar, 173, 645
Fathipour Yaghoub, 43, 191
Fina Opio, 21
Ghaderi Reza, 273
Ghafouri-Moghaddam Mostafa, 369
Gharajedaghi Yaser, 389
Gharali Babak, 265
Ghasemi Vahid, 449
Ghorbanzad Hadi, 397
Gilasian Ebrahim, 69
Golizadeh Ali, 173
Golmohammadi Gholamreza, 435
Habibpour Behzad, 1
Hajian Shahri Mohammad, 563
Hajiqaanbar Hamidreza, 233
Hajizadeh Jalil, 245
Hakimian Saeedeh, 265
Hatami Maleki Hamid, 51
Hejazi Mir Jalil, 129
Heydari Ramin, 397
Hoseini Chnoor, 637
Hosseini Naveh Vahid, 43, 181
Hosseinigharalari Ali, 435
Ivan Rwomushana, 21
Izadi Hamzeh, 335
Izadpanah Keramat, 377
Jahanshahi Afshar Farahnaz, 59
Jalali Sendi Jalal, 449
Jalalipour Reza, 283
James Muthomi, 21
Javier Peris-Felipo Francisco, 413
Jerome Kubiriba, 21
Johnson Kwach, 21
Kagot Victor, 305
Kalvandi Ramazan, 655
Kanampiu Fred, 305
Karbalaee Khiavi Hosein, 173
Karimi Javad, 159
Karimi-Malati Azadeh, 283
Karimzadeh Esfahani Javad, 597
Karimzadeh Javad, 43
Kavallieratos Nickolas G., 199
Kavianpour Mohammadreza, 315
Kavousi Aurang, 467
Kazerani Farzaneh, 69, 459
Kazzazi Majid, 181
Khaghaninia Samad, 389, 459, 523
Khaghaninia Samad, 637
Khajeh Nahid, 413
Khalili-Moghadam Arsalan, 673
Khanjani Mohammad, 581, 625
Khayrandish Mohammad, 69, 265
Khederi Saeid Javadi, 625
Kheiri Ahmad, 59
Kheiri Hamid Reza, 31
Khelgatibana Fatemeh, 573
Khodaparast Seyed Akbar, 663
Khodaygan Pejman, 345
Kianpour Roja, 43
Kocheyli Farhan, 89, 467, 487
Kolyaee Raof, 631

- Lakzaei Maliheh, 479
Lotfalizadeh Hossein, 369, 637
Lotfalizadeh Hosseinali, 125
Madadi Hossein, 181
Mageto Edna, 305
Maghsoudi Hossein, 531
Mahdikhani Moghaddam Esmat, 105
Malekshah-koohi Samaneh, 255
Manzari Shahab, 611
Masumi Sahar, 655
Mehrparvar Mohsen, 199
Minaei Saeid, 531
Mirab-balou Majid, 99, 557
Mirzaei Soheila, 655
Mobasser Samad, 573
Mohamed Abu El-Ghiet Usama, 543
Mohammadi Sharif Mahmoud, 129
Mohammadipour Ali, 631
Moharramipour Saeid, 1, 147, 449
Monfared Alireza, 357
Moravvej Gholamhossein, 159
Moslemkhani Cobra, 573
Mossadegh Mohammad Saied, 89, 443, 467, 487
Mostafanezhad Hadis, 499
Motallebi Mostafa, 31
Motazedian Najmeh, 137
Mottaghinia Leila, 173
Nader Elham, 199
Naseri Bahram, 191, 245, 295
Nasirian Roya, 295
Nazemi Amir Hossein, 159
Nemati Alireza, 255, 315
Nourinejhad Zarghani Shaheen, 499
Okoth Peter, 305
Okoth Sheila, 305
Panahandeh Yousef, 13, 691
Pedram Majid, 691
Pooraiiouby Rana, 125
Pourjam Ebrahim, 13, 59, 397, 691
Rahimi Hassan, 631
Rakhshani Ehsan, 199, 369, 413
Ramezani Leila, 443
Ramezani Moghaddam Maryam, 105
Rasekh Arash, 1, 89, 487
Razavi Vahideh, 573
Razmjou Jabraeil, 173, 295
Rezaei Nastaran, 467
Rockefeller Erima, 21
Rouhani Hamid, 105
Saber Moosa, 89
Saberi-Riseh Roholah, 345
Saboori Alireza, 673
Sadeghi Leila, 573
Safaie Naser, 113, 509
Sahebani Navazollah, 499
Sahragard Ahad, 283, 611
Salehi Elham, 377
Salehi Mohammad, 377
Samih Mohamad Amin, 335
Samy Gadallah Neveen, 543
Sarailoo Mohammad Hasan, 479
Sedaghati Ebrahim, 345
Shabarari Meysareh, 245
Shafiei Alavijeh Elahe, 1
Shahbazi Raheleh, 573
Shahidi-Noghabid Shahnaz, 335
Shams-bakhsh Masoud, 509
Sharifi Kowsar, 663
Shatalkin Anatole, 523
Sherafati Faegheh, 345
Shetab Booshehri Seyed Mehdi, 615
Shishehbor Parviz, 597
Starý Petr, 199
Taghavi Seyed Mohsen, 377
Talaie-Hassanlouei Reza, 159, 425
Talebi Ali Asghar, 69, 233, 265
Talebi Jahromi Khalil, 467
Tanha Maafi Zahra, 75
Tavoosi Mehrzad, 487
Tomanović Željko, 199
Vigheri Ndungo, 21
Wilberforce Tushemereirwe, 21
Yari Zahra, 413
Yousefi Azam, 563
Zafari Doustmorad, 655
Zahiri Babak, 581
Zamani Mohammad-Reza, 31
Zare Masume, 425
Zargar Mohammad, 233
Zargarani Mohammad-Reza, 125
Zarghani Ebrahim, 523
Ziaee Masumeh, 589
Zibae Arash, 245
Zohdi Hadi, 631

Scientific names index for Volume 3,'4236

- Abracris flavolineata*, 185, 252
Acanthaspis pedestris, 471, 474
Acanthoscelides obtectus, 143, 145, 590, 594
Acarus corbicula, 674
Acer truncatum, 661
Acholeplasma laidlawii, 382, 383
Acizzia jamatonica, 611, 612, 613, 614
Acremonium, 660
Acrotritia ardua, 443, 446, 448
Acrotritia sinensis, 446
Acyrtosiphon gossypii, 203, 206, 208, 214, 220
Acyrtosiphon kondoi, 203, 207, 224
Acyrtosiphon pisum, 94, 97, 169, 203, 207, 208, 217, 218, 220, 224, 229, 552, 608
Acyrtosiphon, 203, 206, 207, 208, 214, 217, 218, 220, 224, 229
Adalia bipunctata, 177, 179, 292
Adalia fasciatopunctata, 292
Adialytus ambiguus, 200, 201
Adialytus arvicola, 201
Adialytus salicaphis, 201
Adialytus thelaxis, 201
Adialytus veronicaecola, 201
Adialytus, 200, 201, 228, 546, 547, 553
Aedes aegypti, 144, 340, 342, 343
Aedes, 133
Aelia acuminata, 186, 187
Agastache foeniculum, 594
Ageratum houstonianum, 663, 664, 666, 671
Agistemus floridanus, 629
Agonoscena pistaciae, 335, 336, 337, 344
Agrobacterium tumefaciens, 31, 32, 33, 35, 41, 42
Agrobacterium, 31, 32, 35, 38, 39, 40, 41, 42
Agrotis ipsilon, 550
Albizia julibrissin, 611, 612, 614
Alcaligenes xyloxydans, 520
Aleurites moluccana, 9, 10
Allium cepa, 581
Allium sativum, 581
Alloea contracta, 414
Alloea, 413, 414, 423
Alloparasitus, 258
Allothrips bournieri, 100
Allothrips, 99, 100, 103
Alloxysta, 490
Alternaria alternata, 658, 659
Alternaria franaseriae, 658, 659
Alternaria solani, 40
Alternaria tangelonis, 658, 659
Alternaria, 565, 566, 658, 659
Alysia, 414
Amblyseills victoriellsis, 629
Amblyseius herbiocolus, 291
Amblyseius, 628
Ameosiphon platycaudum, 202, 204, 210
Ameroseius bassolase, 673, 674, 682
Ameroseius corbiculus, 674
Ameroseius curbicula, 680
Ameroseius lanceosetis, 673, 680
Ameroseius lidiae, 673, 675, 676, 677, 678, 679, 680, 682
Ameroseius plumosus, 674
Ameroseius, 673, 674, 675, 676, 677, 678, 679, 680, 682
Amictus pictus, 271
Amphorophora agathonica, 187
Amphorophora catharinae, 206, 218
Amplimerlinius macrurus, 14, 15
Amplimerlinius, 13, 14, 15, 20, 692, 706, 707, 708
Anagasta kuehniella, 302, 303, 479, 480, 481, 482, 483, 485
Anagyrus ananatis, 290
Anagyrus sp. nov. nr. *sinope*, 289
Anagyrus, 289, 290
Andrallus spinidens, 475
Anguillulina obtusa, 410, 708
Anguina tritici, 623
Annona senegalensis, 330
Annona squamosa, 330
Anopheles gambiae, 594
Anopheles, 133
Anthocoris nemoralis, 597, 598, 600, 601, 603, 604, 605, 607, 609
Anthocoris nemorum, 607
Anthocoris sibericus, 601, 606
Anthocoris, 597, 598, 601, 603, 604, 605, 606, 607, 609
Anthonomus grandis, 253
Anthoseius, 625, 626, 627, 628, 630
Anthrax grandis, 265, 266, 269, 270, 272
Anthrax minos, 267
Antirrhinum majus, 663, 664, 667, 671
Anystis baccarum, 625, 626, 627, 630
Aonidiella aurantii, 342
Apanteles appellator, 543, 546, 548, 547, 556
Apanteles laevigatus, 553
Apanteles litae var. *operculellae*, 551
Apanteles litae, 546, 547, 548, 549, 551
Apanteles, 543, 546, 547, 551, 553, 554, 556
Aphaereta ceratitivora, 420
Aphaereta difficilis, 414
Aphaereta minuta, 414, 415
Aphaereta, 413, 414, 420, 423
Aphanta, 418

- Aphelenchoides absari*, 401
Aphelenchoides limberi, 401
Aphelenchus avenae, 401, 693, 706
Aphelinus albipodus, 683, 684, 685, 686, 687, 688, 689, 690
Aphidecta obliterate, 292
Aphidimyza, 285, 287, 293
Aphidius asteris, 202, 543, 546, 548, 556
Aphidius absinthii, 201, 202
Aphidius arvensis, 202
Aphidius asteris, 202, 543, 546, 547, 556
Aphidius avenae, 202
Aphidius avenaphis, 225
Aphidius colemani, 202, 203, 208, 222, 231, 546, 547
Aphidius eadyi, 203, 229
Aphidius ervi, 203, 224, 474
Aphidius funebris, 204
Aphidius hieraciorum, 492
Aphidius iranicus, 204, 222, 230
Aphidius matricariae, 204, 206, 222, 228, 229, 231, 473, 476, 490, 492, 494, 547, 548
Aphidius rhopalosiphii, 206, 225, 226, 687
Aphidius rosae, 241
Aphidius salicis, 207
Aphidius smithi, 207, 224
Aphidius stigmaticus, 207, 222
Aphidius tanacetarius, 208, 222, 227
Aphidius testaceipes, 687, 689
Aphidius transcaspicus, 208, 225
Aphidius urticae, 208, 227
Aphidius uzbekistanicus, 208, 209, 225
Aphidius, 201, 202, 203, 204, 206, 207, 208, 209, 222, 224, 225, 226, 227, 228, 229, 230, 231, 241, 543, 546, 547, 548, 553, 556
Aphidoletes aphidimyza, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293
Aphis acetosae, 203, 209, 214
Aphis affinis, 203, 204, 209, 212, 214, 218, 416
Aphis alexandrae, 215
Aphis althaeae, 215
Aphis anthemidis, 215
Aphis craccivora, 163, 168, 201, 202, 203, 204, 209, 210, 212, 214, 215, 216, 218, 219, 227, 283, 284, 285, 286, 287, 288, 289, 291, 293, 476, 688
Aphis crepidis, 204
Aphis dlabolai, 204, 219
Aphis epilobiara, 209
Aphis epilobii, 215
Aphis eunymi, 215
Aphis euphorbiae, 204, 209
Aphis euphorbicola, 215
Aphis fabae, 163, 202, 203, 204, 207, 209, 210, 212, 213, 214, 215, 219, 229, 290, 291, 292, 476
Aphis farinosa, 209, 214
Aphis gossiper, 97
Aphis gossypii, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 160, 169, 201, 202, 203, 204, 209, 210, 212, 214, 215, 218, 219, 230, 231, 652, 687, 689
Aphis hederiae, 209
Aphis idaei, 209, 214, 215
Aphis illinoisensis, 683, 684, 685, 686, 687, 688, 689, 690
Aphis intybi, 202, 205, 214, 215
Aphis nasturtii, 205, 215
Aphis nerii, 202, 203, 209, 212, 215, 218
Aphis pisum, 163
Aphis plantaginis, 203, 205, 212, 215
Aphis pomi, 93, 94, 205, 209, 212, 215, 219, 229, 284, 291
Aphis punicae, 202, 205, 210, 212, 215, 218
Aphis rumicis, 202, 210, 215
Aphis salviae, 213, 215
Aphis solanella, 203, 205, 210, 215, 219
Aphis spiraecola, 205, 209, 210, 215, 605, 687, 689
Aphis umbrella, 202, 205, 209, 210, 215
Aphis urticata, 209, 215, 219
Aphis verbasci, 214
Aphis, 201, 202, 203, 204, 207, 209, 210, 212, 213, 214, 216, 218, 226, 227, 229, 230, 231
Apis mellifera, 182, 185, 187, 324
Aprostocetus doronokianus, 370
Aprostocetus, 370
Aprutides, 66
Arabidopsis thaliana, 506
Areopraon lepellei, 209, 222, 225
Artemisia absinthium, 221
Artemisia princeps, 10
Artemisia sieberi, 137, 138, 139, 140, 141, 142, 143, 146
Artemisia, 221
Arthrocnodax vitis, 625, 626, 627, 628, 630
Arthroderma otae, 307, 308, 309
Artogeia, 553
Arundo donax, 208
Arytaina albizziae, 612
Asaphes lucens, 374
Asaphes suspensus, 369, 370, 371, 373, 376
Asaphes vulgaris, 371
Asaphes, 369, 370, 371, 373, 374, 376
Asiconops, 460
Asobara, 415
Aspergillus flavus, 620
Aspergillus niger, 188, 661
Aspergillus oryzae, 41
Aspergillus, 658, 659, 661
Aspilota delicata, 415
Aspilota, 413, 414, 415, 422, 423

- Astragalus*, 14, 663, 664, 671
Atanycolus ivanovi, 234, 236, 237, 238, 239
Atanycolus, 233, 234, 236, 237, 238, 239, 242, 243
Aulacaspis yabunikkei, 652
Aulacorthum circumflexum, 687
Aulacorthum solani, 489
Aulacorthum, 214
Austrogamasellus, 256
Avena ludoviciana, 77
Azadirachta indica, 47, 436, 330, 331, 332, 333
Bacillus cereus, 106, 110
Bacillus firmus, 106, 110, 111
Bacillus megaterium, 106, 109
Bacillus nematocida, 106, 109
Bacillus pumilus, 105, 106, 107, 108, 109, 110, 112
Bacillus subtilis, 106, 110, 111
Bacillus thuringiensis subsp. *kurstaki*, 456
Bacillus thuringiensis, 106, 450, 455, 456,
Bacillus, 105, 106, 107, 108, 109, 110, 111, 112, 510
Basiria breylla, 401
Batrachedra amydraula, 303
Beauveria bassiana, 163, 168, 425, 426, 427, 428,
429, 430, 431, 432, 433, 434
Beauveria, 425, 426, 427, 429, 430, 431, 432, 433, 434
Bemisia argentifolii, 439
Bemisia tabaci, 97, 168, 188, 303, 342, 440, 433,
435, 436, 437, 438, 439, 440
Bemisia tritici, 586
Betula, 554
Betuloxys hortorum, 209
Binodoxys acalephae, 209
Binodoxys angelicae, 209, 210
Binodoxys brevicornis, 210
Binodoxys heraclei, 210
Binodoxys, 476
Blattella germanica, 143
Boleodorus thylactus, 401
Bombus confuses, 365, 606
Bombus cryptarum, 364
Bombus griseocollis, 365
Bombus jonellus, 364
Bombus lucorum, 364, 365
Bombus mesomelas, 357, 358, 359, 360, 362, 363,
364, 366, 367
Bombus niveatus, 365
Bombus perplexus, 365
Bombus persicus, 357, 358, 359, 360, 361, 363, 364, 367
Bombus ruderarius, 357, 358, 359, 360, 361, 364,
366, 367
Bombus vorticosus, 365
Bombus, 357, 359, 361, 362, 363, 364, 365, 366,
367, 462
Bombyx mori, 182, 186, 251, 454, 455
Boophilus microplus, 134
Boscia senegalensis, 330, 333
Brachycaudus amygdalinus, 202, 205, 210, 212,
213, 215, 219
Brachycaudus cardui, 202, 205, 210, 212, 213, 214,
215, 217, 219
Brachycaudus divaricatae, 205
Brachycaudus helichrysi, 202, 203, 205, 209, 210,
212, 213, 214, 215, 219
Brachycaudus persicae, 205, 215, 219, 220
Brachycaudus tragopogonis setosus, 215
Brachycaudus tragopogonis, 203, 205, 215
Brachycaudus, 202, 203, 205, 209, 210, 212, 213,
214, 215, 216, 217, 219, 220
Brachyceraea brevicornis, 459
Brachyunguis harmalae, 215
Brachyunguis skafi, 214
Brachyunguis tamaricis, 212
Brachyunguis zygothylli, 215
Bracon (Glabrobracon) jenoii, 240
Bracon (Lucobracon) kuzguni, 240
Bracon breviradius, 240
Bracon urinator, 546, 547, 550
Bracon, 234, 236, 240, 241, 546, 547, 550, 554
Braconinae, 233, 234, 236, 237, 239, 240, 241, 242, 243
Bradyrhizobium, 510
Bradysia paupera, 586
Brasica juncea, 41
Brasica napus, 39, 40
Brassica campestris, 475
Brassica elongata, 663, 664, 671
Brassica juncea, 47, 475
Brassica napus, 31, 32, 34, 35, 38, 42, 44, 96, 138,
139, 420, 468
Brassica oleracea var. *capitata*, 44
Brevibacillus laterosporus, 109, 111
Brevicoryne brassicae, 96, 137, 138, 139, 141, 142,
144, 146, 210, 224, 290, 471, 473, 474, 475, 687,
Brochophagus roddi, 652
Bruchidius atrolineatus, 332
Busseola fusca, 549, 553
Cacopaurus pestis, 410
Cacopsylla pyricola, 597, 598, 599, 600, 601, 603,
605, 606, 609
Cactoblastis cactorum, 634
Calliopum aeneum, 524
Calliopum caucasicum, 523, 524, 525, 529
Calliopum, 523, 524, 525, 527, 528, 529
Callitris glaucophylla, 8, 10
Callitula ferrierei, 125, 126, 127, 128
Callitula, 125, 126, 127, 128
Callosobruchus chinensis, 253, 329, 330, 331, 332,
333, 439, 590, 594

- Callosobruchus maculatus*, 145, 327, 328, 329, 330, 331, 332, 333, 334, 440, 589, 594
Callosobruchus subinnotatus, 330, 331, 333
Callosobruchus, 327, 330, 331, 332, 333, 334
Calotropis procera, 8, 9, 440
Campoletis grioti, 292
Camptotylus reuteri, 440
Candidatus, 377, 380, 382, 383, 384, 385, 386, 387, 388
Capitophorus elaeagni, 202, 207
Capitophorus similis, 205
Carduoideae, 667
Carica papaya, 384
Carum copticum, 589, 590, 591, 592, 593, 594, 595
Catharanthus roseus, 378
Cavariella aegopodii, 207, 210
Cavariella aquatica, 207, 211
Cavariella aspidaphoides, 207, 210
Cavariella theobaldi, 207
Celatoblatta quinque maculata, 157
Ceratitidis capitata, 420
Chaitaphis tenuicauda, 221
Chaitophorus euphraticus, 201
Chaitophorus leucomelas, 201
Chaitophorus populeti, 201, 211
Chaitophorus populialbae, 201
Chaitophorus remaudierei, 201
Chaitophorus salijaponicus, 201
Chaitophorus truncatus, 201
Chaitophorus vitellinae, 201
Chamaecypris nootkatensis, 8, 10
Chartolobus, 543, 546, 547, 556
Cheilosia aerea, 638
Cheilosia cumanica, 638, 642
Cheilosia nigripes, 638
Cheilosia, 638, 641, 642, 643
Chelonus basalis, 543, 547, 556
Chelonus blackburni, 543, 547, 548, 556
Chelonus curvimaaculatus, 546, 547, 549, 552
Chelonus oculator, 543, 556
Chelonus, 543, 546, 547, 548, 552, 556
Chenopodium album, 210, 211
Chenopodium ambrosioides, 145
Chilo diffusilineus, 549
Chilo partellus, 549, 553
Chilo suppressalis, 154, 155, 197, 251, 253, 426, 427, 429
Chilo zacconius, 549
Chilocorus nigritus, 340, 342
Chlamydosporum, 308, 309, 310
Chloridea, 550
Chorebus (Chorebus) gracilipes, 417
Chorebus (Chorebus) nigrigidiremptus, 417
Chorebus (Chorebus) nixonii, 417
Chorebus (Phaenolexis) compressiventris, 416
Chorebus (Phaenolexis) femoratus, 416
Chorebus (Phaenolexis) iridis, 417
Chorebus (Phaenolexis) leptogaster, 417
Chorebus (Phaenolexis) ornatus, 417
Chorebus (Phaenolexis) tamsi, 418
Chorebus (Stiphocera) cubocephalus, 416
Chorebus (Stiphocera) groschkei, 417
Chorebus (Stiphocera) diremtus, 416
Chorebus (Stiphocera) misellus, 417
Chorebus (Stiphocera) mucronatus, 417
Chorebus (Stiphocera) uliginosus, 418
Chorebus (Stiphocera) venustus, 418
Chorebus asphodeli, 416
Chorebus axillaris, 416
Chorebus bathyzonus, 416
Chorebus longicornis, 416
Chorebus stilifer, 418, 420
Chorebus, 413, 414, 416, 417, 418, 420, 421, 423
Chortoicetes terminifera, 157
Chromaphis juglandicola, 221
Chromatomyia horticola, 135, 420, 421
Chrysanthemum grandiflorum, 592
Chrysanthemum, 592, 594
Chrysogaster virescens, 638
Chrysogaster, 638, 641, 643
Chrysopa carnea, 495, 625, 626, 627, 630
Chrysoperla carnea, 341, 479, 480, 481, 482, 483, 484, 485, 490, 491, 493
Chrysoperla externa, 484
Chrysoperla rufilabris, 342, 607
Chrysorrhoea, 461
Cicer arietinum, 328, 331, 384
Cichorium intybus, 663, 664, 671
Cinara (Cupressobium) tujafilina, 217
Cinara atlantica, 169
Cinara pini, 159, 161, 162, 163, 164, 165, 166, 167, 169, 171
Cinara, 159, 161, 162, 163, 164, 165, 166, 167, 168, 169, 171, 217
Cinnamomum camphora, 10
Cirsium arvense, 663, 664, 666, 667, 671
Citrus aurantifolia, 345, 346, 347, 348, 355
Citrus macrophylla, 346
Citrus paradisi, 345, 346, 347, 348, 350, 355
Citrus, 345, 350, 351, 352, 353, 355
Cladosporium cladosporioides, 658, 659
Cladosporium, 565, 566, 658, 659
Clavidourus, 19
Clematis, 70
Cnaphalocrocis medinalis, 303
Coccidoxenoides peregrinus, 290
Coccinella novemnotata, 490, 491

- Coccinella septempunctata*, 474, 489, 491, 493, 625, 626, 627, 630
Coccinella transversalis, 607
Coccinella undecimpunctata, 490, 491
Coccygidium melleum, 547, 548
Coelinidea gracilis, 418
Coelinidea, 413, 414, 418, 423
Coleomegilla maculate lengi, 433
Coleophoma, 61
Coleus, 290
Colletothericum, 658, 659
Colletotrichum gloeosporioides, 307, 308, 309
Colletotrichum, 660
Colomerus vitis, 625, 627, 628, 629, 630
Coloradoa absinthii, 221
Coloradoa achilleae, 202
Coloradoa heinzei, 221
Coloradoa, 202, 215, 221
Compsothrips albosignatus, 100
Compsothrips, 99, 100, 103
Cononedys bituberculata, 271
Conops insignis, 460, 462
Conops longiventris, 459, 460, 462, 465
Conops vesicularis, 460, 461, 462
Conops, 459, 460, 461, 462, 465
Coptotermes formosanus, 2, 8, 9, 10
Corcyra cephalonica, 480, 484
Cordilura rufipes, 389, 390, 391, 396
Cordilura, 389, 390, 391, 396
Cornus, 70
Corylobium avellanae, 217
Coslenchus costatus, 401
Cosmoclopius nigroannulatus, 291
Cosmolaelaps, 255
Cossus cossus, 635
Cotesia glomerata, 543, 547, 548, 549, 553, 556
Cotesia plutellae, 47
Crataegus, 70
Creontiades pallidus, 483
Crepis, 487
Criconemella, 399, 410
Criconemoides xenoplax, 401
Criconemoides, 399, 401, 409, 410
Croton tiglium, 8, 9
Crypaccarus promecus, 446
Cryptolaemus montrouzieri, 290
Cryptolestes ferrugineus, 144
Cryptophlebia leucotreta, 549
Cryptoriopsis criptocandina, 655
Cryptotermes brevis, 8
Cryptotermes heimi, 8
Cucumis sativus, 90
Cuminum cyminum, 589, 590, 591, 592, 593, 595
Cupress obium, 217
Curvularia lunata, 40
Curvularia akaii, 655, 657, 658, 659, 662
Cuscuta campestris, 378, 388
Cyanopterobracon, 554
Cycloneda sanguinea, 144
Cydia pomonella, 157, 342
Cylindrocopturus adspersus, 157
Cyloneda sanguinea, 143
Cymbopogon winterianus, 143
Cystotheca, 668
Dacnusa (Aphanta) hospita, 418
Dacnusa (Dacnusa) gentiana, 418
Dacnusa (Pachysema) sibirica, 419, 420
Dacnusa alpestris, 418
Dacnusa confinis, 418
Dacnusa, 413, 414, 418, 419, 420, 423
Deladenus andrassy, 61, 62
Deladenus apopkaetus, 63
Deladenus aridus, 62
Deladenus durus, 59, 60, 61, 62, 65, 67
Deladenus durus, 65
Deladenus indicus, 62, 63
Deladenus ipini, 62, 63
Deladenus nevexii, 63
Deladenus obesus, 62, 63
Deladenus paradurus, 61, 62
Deladenus ulani, 62, 63
Deladenus, 59, 60, 61, 62, 65, 67
Delia radicum, 154, 156
Dendrocerus carpenteri, 374
Dendrocerus, 490
Dendroctonus adjunctus, 61
Dendroctonus monticolae, 708
Dendrolimus sibiricus, 373
Dendrolimus spectabilis, 373, 374
Dermanyssus gallinae, 143, 144
Diadegma insulare, 48
Diaeretiella rapae, 210, 211, 222, 224, 229, 230, 290, 467, 468, 469, 470, 471, 473, 474, 475, 476, 477, 490, 494, 687, 689
Diagnosis, 256
Diaretiella, 553
Diaretus, 553
Diathraea saccharalis, 186
Dicondylus indianus, 291
Diglyphus isaea, 420
Dinocampus coccinellae, 543, 547, 548, 556
Dinotrema concinnum, 415
Dinotrema concolor, 415
Dinotrema cratocerus, 415
Dinotrema intermissum, 415, 420
Dinotrema significarium, 415

- Dinotrema*, 413, 414, 415, 420, 423
Disaphis plantaginea, 178
Discocriconemella surinamensis, 398, 409
Discocriconemella yossifovichii, 410
Discoppia cylindrical, 446
Discotylenchus brevicaudatus, 401
Dispersion parameter K, 648
Ditylenchus dipsaci, 110
Ditylenchus myceliophagus, 401
Diuraphis noxia, 202, 205, 206, 208, 210, 212, 219, 220, 223, 229, 230, 231, 476
Donacia, 72
Dorsal idiosoma, 256, 259, 316, 675
Drechslera tetrarrhenae, 659
Drechslera biseptata, 616
Drepanosiphum platanoidis, 220
Drimys winteri, 592, 594
Drosophila, 252, 455
Duraphis noxia, 223
Dysaphis crataegi, 212, 213
Dysaphis devector, 178, 205, 212
Dysaphis lappae, 215
Dysaphis plantaginea, 173, 174, 176, 177, 178, 179, 180, 205, 211, 212, 215
Dysaphis pulverina ssp. *iranica*, 203
Dysaphis pulverina, 203
Dysaphis pyri, 205, 212, 213, 219
Dysaphis radicola, 203, 215
Dysaphis reaumurii, 212
Dysdercus peruvianus, 431
Dysmicoccus brevipes, 290
Elaeagnus angustifolia, 386, 579
Encarsia formosa, 476
Encarsia inarum, 476
Enosima leucotaeniella, 154, 156
Eoseristalis, 639
Ephedraphis ephedrae, 214
Ephedrus californicus, 608
Ephedrus cerasicola, 211
Ephedrus chaitophori, 211
Ephedrus helleni, 211
Ephedrus niger, 211
Ephedrus persicae, 547
Ephedrus plagiator, 543, 546, 547, 548, 556
Ephedrus salicicola, 211
Ephedrus, 211, 212, 213, 224, 231, 543, 546, 547, 553, 556
Ephestia cautella, 302, 549
Ephestia kuehniella, 449, 450, 452, 451, 452, 453, 454, 455, 456, 458, 475, 549
Epicriopsis horridus, 674
Epilohmannia cylindrical, 446
Epilohmannia inexpectata, 446
Episyrphus balteatus, 489, 491, 493
Epitrix foscua, 133
Eretmocerus rui, 439
Eriophyes vitis, 629
Eriopsis connexa, 291, 468, 476
Eriosoma lanuginosum, 209
Eristalinus aeneus, 638
Eristalinus megacephalus, 638
Eristalinus sepulchralis, 638
Eristalinus, 638
Eristalis arbustorum, 639
Eristalis tenax, 639
Eristalis, 639, 641
Erwinia amylovora, 346
Erwinia herbicola, 353
Erwinia, 346, 352, 353
Erysiphaceae, 663, 668, 669, 670, 671
Erysiphales, 663, 668, 669, 670, 671
Erysiphe astragali, 663, 664, 671
Erysiphe crucifearum, 663, 664, 671
Erysiphe ligustri, 665
Erysiphe pisi, 664
Erysiphe polygoni, 663, 664, 671
Erysiphe rayssiae, 663, 664, 665, 671
Erysiphe robini, 582, 585, 586
Erysiphe robiniae, 663, 664, 665, 666, 671
Erysiphe syringae japonicae, 663, 664, 665, 671
Erysiphe syringae, 663, 664, 665, 671
Erysiphe trifoliorum, 664, 666
Erysiphe, 663, 664, 665, 666, 668, 669, 670, 671
Erythrophleum suaveolus, 330
Escherichia coli, 32, 40, 107108, 656, 660, 379
Euaphidius cingulatus, 213
Euaphidius setiger, 213
Eucalipterus tilliae, 220
Eucalyptus camaldulensis, 1, 2, 10
Eucalyptus, 1, 2, 4, 9, 10, 11
Eucarazzia elegans, 205
Eumerus falsus, 639
Eumerus sogdianus, 639
Eumerus strigatus, 639
Eumerus transcaspicus, 637, 638, 639, 640, 642, 644
Eumerus tricolor, 640
Eumerus, 637, 638, 639, 640, 641, 642, 643, 644
Euneura, 374
Euoidium agerati, 663, 664, 666, 671
Euoidium, 663, 664, 666
Eupelmus, 370
Eupeodes corollae, 489, 493
Eupeodes nuba, 489, 491
Euphyllura pakistanica, 289, 474
Eurosta solidaginis, 157

- Eurygaster integriceps*, 645, 646, 648, 649, 650, 651, 652, 653, 654
Eurygaster maura, 251, 253
Euseius concordis, 629
Euseius hibisci, 289
Evodia rutaecarpa, 593, 594
Exoprosopa altaica, 265, 266, 267, 268, 269, 270, 272
Exoprosopa efflatounbeyi, 265, 266, 267, 269, 270, 272
Exoprosopa grandis, 266, 267
Exoprosopa minos, 265, 266, 267, 269, 270, 272
Exoprosopa, 265, 266, 267, 268, 269, 270, 271, 272
Fagus orientalis, 2
Female, 693, 694, 695, 696, 697, 701, 703
Fergusobia indica, 59
Ferula assafoetida, 436, 440
Filenchus andrassyi, 401
Filenchus vulgaris, 401
Filenchus, 401, 409
Foeniculum vulgare, 593
Frankliniella occidentalis, 134, 135
Franklinothrips orizabensis, 606
Fusarium acuminatum, 658
Fusarium chlamydosporum, 305, 308
Fusarium culmorum, 113, 114, 115, 116, 118, 123
Fusarium equiseti, 308, 309, 310, 658
Fusarium graminearum s. lato, 118
Fusarium graminearum s. str., 118
Fusarium graminearum s. stricto, 114
Fusarium graminearum sensu lato, 114
Fusarium graminearum sensu stricto, 118
Fusarium graminearum, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123
Fusarium incarnatum, 305, 308, 309, 310, 313
Fusarium javanicum, 658
Fusarium lateritium, 658
Fusarium moniliforme, 616
Fusarium oxysporum, 305, 307, 308, 309, 310, 311, 312, 313, 658, 659
Fusarium reticulatum, 657, 658
Fusarium solani f. sp. phaseoli, 518
Fusarium subglutinans, 655, 657, 658, 662
Fusarium verticilloides, 308, 309, 310, 619, 622
Fusarium xylarioides, 121
Fusarium, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 305, 306, 307, 308, 309, 310, 311, 312, 313, 621, 655, 657, 658, 659, 662
Fusicoccum amygdali, 570
Gaeolaelaps aculeifer, 322, 581, 582, 583, 584, 585, 587
Gaeolaelaps angusta, 321
Gaeolaelaps angustiscutatus, 322
Gaeolaelaps arabicus, 317, 318
Gaeolaelaps deinos, 322
Gaeolaelaps farajii, 315, 321
Gaeolaelaps gillespiei, 322
Gaeolaelaps glabrosimilis, 322
Gaeolaelaps intricans, 313
Gaeolaelaps iranicus, 315, 322
Gaeolaelaps jondishapouri, 315, 320, 322, 325
Gaeolaelaps kargi, 322
Gaeolaelaps latopuga, 317, 319
Gaeolaelaps loksai, 317, 319
Gaeolaelaps minor, 322
Gaeolaelaps mossadeghi, 316, 317, 318, 319, 320, 321, 325
Gaeolaelaps nolli, 317, 320, 321
Gaeolaelaps orbiculatus, 315, 321
Gaeolaelaps oreithyiae, 322
Gaeolaelaps praesternalis, 321, 322
Gaeolaelaps queenslandicus, 322
Gaeolaelaps similisetae, 317, 320
Gaeolaelaps, 255, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325
Galleria mellonella, 168, 252, 426, 432
Galuma iranensis, 446
Geocenamus, 13
Geocoris, 342
Geolaelaps, 316, 323
Gibberella intricans, 305, 308, 309, 310
Gibberella moniliformis, 308, 309, 310
Gibberella zeae, 114, 119
Gibberella, 305, 308, 309, 310
Gimnomera montana, 389, 390, 391, 396
Gimnomera, 389, 390, 391, 396
Glabrobracon, 240, 241, 554
Gliocladium, 40, 621
Glycaspis brimblecombei, 613
Glyphodes pyloalis, 182, 186, 187, 450, 457
Glyptomorpha baetica, 240
Glyptomorpha kaspariyani, 233, 234, 236, 237, 238, 239, 243
Glyptomorpha pectoralis, 234, 236, 237, 238, 239
Glyptomorpha, 233, 234, 235, 236, 237, 238, 239, 240, 243
Gnathopleura, 414, 421
Golovinomyces, 669
Golovinomyces cichoracearum, 663, 664, 667, 669, 671
Golovinomyces circumfusus, 666
Golovinomyces montagnei, 663, 664, 666, 667
Golovinomyces orontii, 663, 664, 667, 671
Golovinomyces sordidus, 663, 664, 671
Golovinomyces, 663, 664, 666, 667, 669, 671
Gonatocerus ashmeadi, 289
Gossypium hirsutum, 96
Gracilacus bilineata, 279
Gracilacus vera, 279
Gracilarzcea, 708

- Grapholita libertina*, 635
Gryllus firmus, 341
Gymnotylenchus zeae, 59, 65
Habrobracon hebetor, 295, 302, 474, 475, 476, 543, 546, 547, 550, 556
Habrobracon, 240
Haplothrips aculeatus, 558
Haplothrips andresi, 558
Haplothrips caespitis, 558
Haplothrips cahirensis, 558
Haplothrips clarisetis, 558
Haplothrips eragrostidis, 558
Haplothrips flavicinctus, 558
Haplothrips ganglbaueri, 558
Haplothrips globiceps, 558
Haplothrips herajius, 558
Haplothrips kermanensis, 558
Haplothrips knechteli, 558
Haplothrips kurdjumovi, 558
Haplothrips leucanthemi, 558
Haplothrips longipes, 558
Haplothrips maroccanus, 558
Haplothrips minutus, 558
Haplothrips phyllophilus, 558
Haplothrips rabinovitchi, 558
Haplothrips reuteri, 558
Haplothrips subtilissimus, 558
Haplothrips tamaricinus, 558
Haplothrips tritici, 558
Haplothrips verbasci, 558, 557, 558, 559, 561
Haplothrips vuilleti, 558
Haplothrips, 99, 557, 558, 559, 561
Harizanum, 622
Harmonia axyridis, 291, 340, 342, 343
Harmonia, 625, 626, 627, 630
Hattena, 673
Hayhurstia atriplicis, 202, 210, 211, 212, 215
Helianthus annuus, 52, 55, 56
Helianthus, 52, 53, 55, 56
Helicotylenchus exallus, 401
Helicoverpa armigera, 46, 47, 135, 191, 192, 193, 194, 195, 196, 197, 198, 300, 302, 303, 432, 433, 549
Helicoverpa zea, 550
Heliothis virescens, 135
Heliothis zea, 186, 196
Heliothis, 197
Helophilus pendulus, 640
Helophilus trivittatus, 640
Hemerobius, 490, 491, 493
Hemicycliophora sturhani, 401
Herodera, 85
Heterodera avenae, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88
Heterodera filipjevi, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88
Heterodera hordecalis, 76
Heterodera latipons, 75, 76, 85, 86, 87
Heterodera schachtii, 85
Heterodera, 75, 78, 80, 81, 82, 83, 84, 85, 86, 87, 88
Heterotermes indicola, 8, 9
Hexatylus mulveyi, 59, 65
Hippodamia variegata, 290, 335, 336, 337, 338, 339, 340, 341, 342, 344, 625, 626, 630, 627
Hirschmanniella, 708
Homalodisca coagulata, 97, 289
Homolobus (Apatia) truncator, 547, 552
Homolobus (Chartolobus) infumator, 543, 546, 547, 548, 550, 556
Homolobus truncator, 550
Homolobus, 543, 546, 547, 550, 552, 556
Homoneura, 528
Homoporus, 126
Homoptera: Aphididae, 144
Hoplocallis pictus, 221
Hoplolaelaps, 256
Hordeum spontaneum, 77
Hordeum, 178
Hura crepitans, 331
Hyacinthus, 581
Hyadaphis coriandri, 212, 215
Hyadaphis foeniculi, 143, 144, 207
Hyadaphis, 207, 210, 212, 215
Hyalopterus amygdali, 202, 205, 208, 212, 215, 219
Hyalopterus pruni, 205, 208, 211, 215, 219, 292
Hyalopterus, 202, 205, 208, 211, 212, 215, 219, 225
Hygrophila auriculata, 8, 9
Hyperomyzus lactucae, 205, 214, 218, 219
Hyphantria cunea, 154, 156, 450, 457
Hypoaspis aculeifer, 585, 586
Hypoaspis miles, 586
Hypoaspis, 255, 262, 322, 323
Hypocrea stellata, 307, 308, 309
Hypsipyla robusta, 431
Hyptis spicigera, 330
Hyptis suaveolens, 143
Idiasta picticornis, 415
Idiasta, 413, 414, 415, 421, 423
Illicium difengpi, 593, 594
Insemination structures, 258, 317
Ipomoea batatas, 385
Ips typographus, 156
Irantylenchus, 19
Ivy Geranium, 653
Jasminum SP, 663, 664, 665, 669, 671
Kermania pistaciella, 242
Khaya senegalensis, 331

- Kleemannia*, 674
Lachnus, 159
Lactuca sativa, 487, 492
Laelaps aculeifer, 316
Laelaps meridionalis, 256
Laelapsoides, 256
Lantana camara, 8, 10
Lasiobelba neonominata, 446
Lathyrrophthalmus, 638
Laurelia sempervirens, 592, 594
Lavandula officinalis, 436, 440
Lecanicillium longisporum, 159, 160, 161, 162, 163, 164, 165, 166, 167, 169, 171
Lecanicillium muscarium, 426
Lecanicillium, 159, 160, 164, 165, 166, 167, 168, 169, 170, 171
Lejogaster metallina, 640, 641
Lejogaster tarsata, 640
Leopoldius pontifex, 459, 464
Leptinotarsa decemlineata, 129, 132, 134, 136, 181, 182, 183, 184, 185, 186, 187, 189, 251, 252, 433
Leptinotarsa, 181, 183, 184, 187, 189
Leptomastix dactylopii, 290
Leptosphaeria lindquistii, 56
Leveilulla taurica, 664
Lilium, 581
Liothrips, 99
Lipaphis erysimi, 205, 210, 215, 467, 468, 469, 470, 472, 473, 477
Lipaphis fritzmuelleri, 215
Lipaphis lepidii, 205, 210, 215
Lipaphis pseudobrassicae, 205, 210
Lipaphis, 467, 475, 476, 477
Lipolexis gracilis, 213, 228
Lippia rugosa, 330
Liriomyza sativae, 133
Liriomyza trifolii, 420, 549, 652
Liriomyza, 549, 551
Lisyphlebus, 553
Lobesia botrana, 341
Lobesia, 341
Lohmannia turcmenica, 446
Lolium multiflorum, 56
Lolium prene, 77
Lomatia, 271
Longistyleta, 409
Lonicera xylosteum, 70
Lucobracon, 240, 241, 554
Lygus hesperus, 185, 188
Lymantria dispar, 47, 197
Lysiphlebus ambiguus, 214, 546, 547, 687, 688
Lysiphlebus cardui, 214, 222
Lysiphlebus confusus, 214
Lysiphlebus desertorum, 214
Lysiphlebus fabarum, 214, 216, 222, 223, 228
Lysiphlebus testaceipes, 216, 222, 226, 683, 684, 685, 686, 687, 688, 689, 690
Macrocentrus, 240
Macrophomina phaseolina, 509, 510, 511, 512, 513, 514, 516, 517, 519, 520, 521
Macroposthonia, 398, 399, 409, 410
Macrosiphoniella abrotani, 201, 211
Macrosiphoniella artemisiae, 201
Macrosiphoniella helichrysi, 201
Macrosiphoniella nr. macrura, 201
Macrosiphoniella oblonga, 201, 217
Macrosiphoniella pulvera, 201
Macrosiphoniella riedeli, 201
Macrosiphoniella sanborni, 212, 215, 217, 218
Macrosiphoniella tanacetaria, 207
Macrosiphoniella tuberculata, 201
Macrosiphoniella, 201, 202, 206, 207, 211, 212, 214, 215, 217, 218, 219, 221, 228
Macrosiphum euphorbiae, 95, 160, 202, 203, 489, 687
Macrosiphum rosae, 202, 207, 215, 218, 219, 226, 241
Macrosiphum, 202, 203, 207, 215, 218, 219, 226
Macrotermes herus, 8
Macrotermes natalensis, 8
Macrotermes subhyalinus, 8
Macrotylechus hylophilus, 13, 19, 708
Macrotylechus, 13, 19, 708
Magnicellulatae, 669
Mallochomyza, 528
Malus domestica, 40, 173, 178, 180
Mamestra brassicae, 154, 156
Manduca sexta, 454, 456
Mariaella lambersi, 210
Material examined, 126
Mayetiola destructor, 145
Medicago sativa, 415, 417, 418, 543, 556
Megabombus pascuorum, 365
Megabombus sylvarum, 364, 366
Megathrips flavipes, 100, 416, 460
Megathrips inermis, 100
Megathrips, 99, 100, 103
Meiodorus, 708
Melanaphis donacis, 208
Melanogaster nuda, 640
Melanogaster, 455, 641
Melanoplus sanguinipes, 431
Melanosoma bella, 459
Melia azedarach, 439, 440
Meloidoderita, 410
Meloidogyne graminicola, 109
Meloidogyne incognita, 110, 111, 505, 506, 622

- Meloidogyne javanica*, 105, 106, 107, 108, 109, 110, 111, 112, 499, 500, 501, 502, 503, 504, 505, 507, 508
Meloidogyne, 105, 106, 109, 110, 111, 112, 499, 502, 503, 504, 505, 506, 507, 508
Merlinius brevidens, 14, 15
Merlinius camelliae, 13, 19
Merlinius microdorus, 401
Merlinius, 13, 14, 15, 19, 20
Mesocriconema antipolitanum, 399
Mesocriconema surinamense, 397, 398, 399, 402, 403, 407, 410, 411
Mesocriconema yossifovichi, 399
Mesocriconema, 397, 398, 399, 401, 402, 403, 407, 409, 410, 411
Metarhizium anisopliae, 426, 431, 432, 433
Metarhizium flavoviride, 432, 433
Meteorus pendulus, 547
Meteorus rubens, 547
Meteorus, 547, 552
Metopeurum fuscoviride, 208
Metopolophium dirhodum, 203, 205, 206, 208, 210, 212, 216, 219
Metopolophium, 203, 205, 206, 208, 210, 212, 216, 219
Microcerotermes beelsoni, 8
Microcerotermes diversus, 1, 2, 5, 6, 7, 9, 10, 11
Microchelonus, 547, 552
Microlophium carnosum, 203, 208
Micromus tasmaniae, 491, 496
Micropopia minus longisetosa, 446
Microsphaera, 668, 669, 670
Milesia bombylans, 70
Milesia excentrica, 70
Milesia waggae, 70
Millettia ferruginea, 8, 10
Minettia bulgarica, 525, 526
Minettia fasciata, 528
Minettia hyrcanica, 526
Minettia longipennis, 528
Minettia lupulina, 523, 524, 525, 527, 529
Moculoachnus, 159
Moghaddam, 105, 106, 109, 110
Moment estimate of 'K', 646
Monoctonia pistaciaecola, 373
Monoctonia vesicarii, 216, 222, 224, 369, 370, 373, 374, 375, 376
Monoctonia, 369, 370, 373, 374, 375, 376
Monoctonus mali, 216
Monoctonus paludum, 492, 495
Multioppia wilsoni, 446
Musca domestica, 143
Myathropa florea, 641
Mysus persicae, 228
Myzus ascalonicus, 205, 687
Myzus beybienkoi, 205, 210, 215, 219
Myzus cerasi, 205, 211, 212, 213
Myzus certus, 205
Myzus dirhodum, 163
Myzus ornatus, 205
Myzus persicae, 95, 96, 160, 163, 166, 187, 202, 203, 205, 210, 211, 212, 216, 218, 219, 231, 291, 489, 606, 687
Nagelus hexageramus, 401
Nagelus leptus, 14, 19
Nagelus obscurus, 14, 15, 19
Nagelus, 13, 14, 15, 19, 20, 692, 706, 707
Nasonovia ribisnigri, 204, 218, 487, 488, 489, 490, 491, 492, 495, 496, 497
Nasonovia, 204, 218
Nasutitermes, 8, 9
Nearctaphis bakeri, 207, 217
Neobellieria bullata, 450, 455
Neodolichorhynchus judithae, 13, 16, 17, 18, 20
Neodolichorhynchus microphasmis, 18
Neodolichorhynchus, 13, 16, 17, 18, 20
Neoheegeria, 560
Neopronematus, 625, 626, 627, 628, 630
Neopsilenchus magnidens, 401
Neoseiulus anonymus, 629
Neoseiulus californicus, 476
Neoseiulus cucumeris, 291
Neosmerinthothrips formosensis, 100
Neosmerinthothrips, 100, 102
Neotermes koshunensis, 182, 185, 187, 188
Nepeta cataria, 137, 138, 139, 140, 141, 142, 143, 146
Nerium oleander, 212, 436, 440
Nesothrips brevicollis, 99, 100, 101, 103
Nesothrips, 99, 100, 101, 102, 103
Neuquenaphis, 178
Nicotiana tabacum, 330
Nilaparvata lugens, 651
Nippolachnus, 159
Nomen nudum, 267
Nomuraea rileyi, 433
Norbanus, 126
Norellisoma spinimana, 389, 390, 391, 396
Norellisoma, 389, 390, 391, 396
Nothofagus, 178
Nothrus anauniensis, 446
Nuphar, 72
Nymphaea alba, 70
Nymphaeaceae, 72
Ocimum basilicum, 145
Ocimum gratissimum, 332
Ocimum suave, 145
Ocneria terebinthina, 340, 341
Odontotermes obesus, 8, 9, 143

- Oedemothrips*, 100
Oenopia conglobata, 292
Oidium jasmini, 665
Oidium, 663, 665, 670
Ololaelaps, 255
Onychiurus fimatus, 584, 585
Ooencyrtus, 373
Ootheca mutabilis, 431
Opius lugens, 543, 546, 547, 548, 549, 556
Oribatula connexa ucrainica, 446
Orius albidipennis, 295, 302, 601, 602, 606, 608, 625, 627, 630
Orius insidiosus, 302, 601, 607
Orius laevigatus, 602
Orius majusculus, 602
Orius niger, 625, 626, 627, 630
Orius sauteri, 601
Orius tristicolor, 342
Orthonevra brevicornis, 641
Orthonevra nobilis, 641
Orthonevra, 641
Orthostigma beyarslani, 415, 420
Orthostigma laticeps, 415
Orthostigma maculipes, 415
Orthostigma, 413, 414, 415, 420, 423
Osculobracon, 554
Osculobraconsubgen, 241
Ostrinia nubilalis, 632
Ovatus insitus, 205
Pachnoda interrupta, 8
Pachyneuron leucopscida, 373
Pachyneuron solitarium, 369, 371, 372, 373, 376
Pachyneuron solitarius, 375
Pachyneuron spyrothecae, 369, 370, 371, 376
Pachyneuron, 369, 370, 371, 372, 373, 374, 375, 376
Pachysema, 418, 419
Paecilomyces fumosoroseus, 431
Paecilomyces lilacinus, 505
Pandora neoaphidis, 169
Panonychus citri, 292
Panonychus ulmi, 601, 606, 607
Pantoea agglomerans pvs. *gypsophilae*, 353
Pantoea agglomerans, 345, 346, 348, 349, 351, 352, 353, 354, 355, 510
Pantoea ananatis, 346
Pantoea betae, 353
Pantoea stewartii, 346, 351, 353
Pantoea, 345, 346, 350, 351, 352, 353, 354, 355
Papaver nudicaule, 70
Papilacarus chamartinensis, 446
Papilio demoleus, 450, 456
Parallelomma albipes, 389, 390, 391, 396
Parallelomma, 389, 390, 391, 396
Paramerlinius hexagrammus, 13, 14, 16
Paramerlinius, 13, 14, 16, 19, 20
Paramerlinius, 708
Paramicroprosopa hoberlandti, 389
Paraphelenchus pseudoparietinus, 66
Paratylenchus amundseni, 278
Paratylenchus arcuatus, 279, 280
Paratylenchus breviculus, 278
Paratylenchus colbrani, 278
Paratylenchus goldeni, 278
Paratylenchus italiensis, 66, 273, 278, 279, 281
Paratylenchus labiosus, 273, 274, 275, 276, 277, 278, 279, 281
Paratylenchus microdorus, 278, 279
Paratylenchus minutus, 278
Paratylenchus nainianus, 280
Paratylenchus nanus, 279
Paratylenchus obtusicaudatus, 279
Paratylenchus pernoxius, 278
Paratylenchus recisus, 278
Paratylenchus serricaudatus, 278
Paratylenchus similis, 273, 274, 278, 279, 281, 401
Paratylenchus tateae, 273, 278, 279, 280, 281
Paratylenchus variabilis, 278, 400, 691, 692, 704, 705, 706, 709
Paratylenchus veruculatus, 278, 279
Paratylenchus vexans, 278
Paratylenchus, 273, 274, 275, 276, 277, 278, 279, 280, 281
Pauesia antennata, 216, 227
Pauesia hazratbalensis, 217, 222
Pauesia, 216, 217, 222, 227, 228
Pediculus humanus capitis, 144
Pemphigus californicus, 371
Pemphigus fuscicornis, 374, 416
Pemphigus matsumurai, 370, 375
Pemphigus muscarum, 371, 373
Pemphigus spyrothecae, 216, 369, 371, 375, 376
Pemphigus, 216, 224, 369, 370, 371, 373, 374, 375, 376
Penicillium chrysogenum, 41
Penicillium, 565
Periphyllus testudinaceus, 213
Periphyllus, 213
Perovskia abrotanoides, 593
Pestalotiopsis microspore, 655, 661
Phaenocarpa ruficeps, 415, 420
Phaenocarpa, 413, 414, 415, 420, 423
Phaenolexis, 416, 417, 418
Phanerotoma leucobasis, 543, 547, 556
Phaseolus aconitifolius, 332
Pheropsophus aequinoctialis, 185
Phlebotomus duboscqi, 432
Phoma macdonaldii, 51, 52, 53, 54, 55, 56, 57

- Phoma macdonaldii*, 53
Phoma pereupyrena, 658
Phoma pimpinellae, 658, 659
Phoma selaginellicola, 659
Phoma valerianae, 658
Phoma, 658, 659
Phomopsis, 569, 570
Phorodon humuli, 202, 205, 208, 211, 212, 216, 219
Phthorimaea operculella, 549, 552, 555
Phyllactinia, 669, 670
Phyllanthus, 670
Physocephala chrysoorrhoea, 460, 463
Physocephala laticincta, 459, 460, 461, 463, 465
Physocephala rufipes, 459, 464
Physocephala vittata, 459, 460, 461, 463
Physocephala zaitzevi, 459
Physocephala, 459, 460, 461, 462, 463, 464, 465
Physoclypeus farinosus, 528
Phytophthora infestans, 41
Phytoplasmas, 377, 379, 380, 382, 383, 384, 385, 386, 387
Phytophthora infestans, 145
Phytoptus, 629
Phytoseiulus macropilis, 476
Phytoseiulus persimilis, 291, 608
Pichia pastoris, 40
Picris echoides, 383, 384
Pieris brassicae, 47, 48
Pieris rapae, 549, 552
Pieris, 302, 549, 552, 553
Pigeria, 241, 554
Pinus mugo, 161
Pinus radiata, 520
Pinus sylvestris, 641
Pinus, 161, 162, 641
Piper guineense, 330, 331, 332, 333
Pipiza accola, 643
Pistacia atlantica, 59, 61, 67
Plagioderia versicolora, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254
Planococcus citri, 290
Planococcus ficus, 290
Plantago, 173, 663, 664, 671
Platycheirus stegnus, 491
Platytenomus hylas, 474
Plesiodorus, 708
Pleurotus, 60
Plodia interpunctella, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 455, 475, 589, 594
Plutella xylostella, 43, 45, 46, 47, 48, 49, 95, 240, 241, 450, 456, 549, 551, 553
Podisus nigrispinus, 290
Podosphaera erigerontis-canadensis, 663, 664, 668, 671
Podosphaera fusca, 663, 668, 671
Podosphaera, 663, 664, 668, 669, 671
Polychrosis, 341
Polyphagotarsonemus latus, 629
Pontia daphidice, 552
Populus frenonti, 60
Populus maximowiczii, 370, 375
Populus nigra, 370, 371, 373
Populus, 245, 369, 370, 371, 375
Postia placenta, 8
Praon abjectum, 217
Praon absinthii, 217
Praon aguti, 687, 689
Praon barbatum, 217
Praon dorsale, 217, 230
Praon exoletum, 218, 217
Praon flavinode, 218
Praon gallicum, 218, 223
Praon longicorne, 230
Praon necans, 218, 543, 547, 548, 556
Praon orpheusi, 218
Praon pubescens, 492
Praon rosaecola, 218
Praon unitum, 218
Praon volucre, 218, 224, 490, 494, 547, 548
Praon yomenae, 217, 220
Praon, 217, 218, 220, 223, 224, 225, 227, 230, 241, 543, 547, 553, 556
Pratylenchoides alkani, 692, 706
Pratylenchoides batatae, 708
Pratylenchoides crenicauda, 397, 398, 399, 404, 411, 691, 692, 693, 694, 695, 696, 705, 706, 708, 709
Pratylenchoides heathi, 400
Pratylenchoides ivanovae, 708
Pratylenchoides leiocauda, 692
Pratylenchoides magnicauda, 691, 692, 696, 697, 698, 699, 705, 706
Pratylenchoides megalobatus, 706
Pratylenchoides ritteri, 692, 706
Pratylenchoides variabilis, 400, 692, 697, 700, 701, 702, 703, 704, 705, 706
Pratylenchoides, 13, 397, 398, 399, 400, 401, 404, 405, 407, 409, 410, 411, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 704, 705, 706, 707, 708, 709
Pratylenchus penetrans, 401
Pratylenchus thornei, 401
Pratylenchus, 708
Primoseius, 674
Prodenia litura, 48
Prostephanus truncates, 143, 250, 253
Protaphis elongata, 215
Protaphis terricola, 214, 216

- Protaphis*, 209, 214, 215
Prothallonema asymmetricum, 60, 65, 66
Prothallonema intermedium, 60, 65
Prothallonema mucronatum, 60
Prothallonema obtusum, 59, 60, 63, 64, 65, 67
Prothallonema, 59, 60, 63, 64, 65, 67
Protodacnusa aridula, 419
Protodacnusa litoralis, 419
Protodacnusa, 413, 414, 419, 423
Prunus amygdalus, 565
Prunus armeniaca, 565
Prunus cerasus, 565
Prunus domestica, 565
Prunus, 563, 565, 568, 569, 570
Pseudocryptothrips, 99, 100, 103
Pseudomonas aeruginosa, 510, 520
Pseudomonas putida, 351, 506
Pseudomonas savastanoi, 351, 353
Pseudomonas, 105, 111, 351, 352, 353, 621
Pseudoparasitus denatus, 258
Pseudoparasitus indicus, 256
Pseudoparasitus jilinensis, 256
Pseudoparasitus oblongus, 258
Pseudoparasitus talebii, 255, 256, 258, 259, 260, 261, 263
Pseudoparasitus, 255, 256, 258, 259, 260, 261, 262, 263
Pseudopezomachus masii, 415, 420
Pseudopezomachus, 413, 414, 415, 420, 423
Pseudopiusia includens, 454, 455
Pseudovipio castrator, 234, 235, 236, 237, 239
Pseudovipio inscriptor, 234, 235, 236, 237, 239
Pseudovipio, 233, 234, 235, 236, 237, 239, 243
Psilechus klingleri, 409
Psilechus, 409
Psilenchus aestuarius, 397, 398, 400, 401, 406, 407, 408, 411
Psilenchus hilarulus, 401, 408
Psilenchus iranicus, 408
Psilenchus, 397, 398, 400, 401, 406, 407, 408, 409, 410, 411
Psithyrus, 365
PstI, 34, 36, 38, 83
Psylla jamatonica, 612
Psylla, 605, 606, 607
Psyllaephagus zdeneki, 289, 474
Psytalia concolor, 543, 547, 556
Psytalia nilotica, 543, 547, 548, 556
Pterocallis alni, 221
Pterocarpus macrocarpus, 8, 10
Pterochloroides persicae, 216, 227
Pterochloroides, 159
Pterocomma pilosum, 213
Pterocomma populeum, 213
Pterocomma, 213
Pyrearinus termitilluminans, 185
Pyricola pyri, 605, 606, 607, 609
Pyrobombus, 365
Pyrrhocoris apterus, 156
Pyrus communis, 597, 598
Pythium aphanidermatum, 506, 621
Pythium, 619, 621
Quercus prinus, 60, 61
Radopholus similis, 110
Ranunculus, 70, 641
Reticulitermes santonensis, 8
Reticulitermes speratus, 8
Reticulitermes virginicus, 8
Rhaebothrips, 100
Rhizobium meliloti, 510, 518
Rhizoctonia solani, 39, 110, 512
Rhizoglyphus echinopus, 581, 582, 583, 584, 586, 587
Rhizoglyphus robini, 581
Rhizoglyphus, 581, 582, 583, 584, 585, 586, 587
Rhodnius prolixus, 185, 188, 450, 455
Rhodobombus, 366
Rhopalomyzus, 205
Rhopalosiphum maidis, 202, 203, 205, 206, 208, 211, 212, 219
Rhopalosiphum nymphaeae, 205, 208, 211, 216, 218
Rhopalosiphum padi, 169, 202, 203, 205, 206, 208, 211, 212, 213, 216, 218, 219
Rhynchophorus ferrugineus, 652
Rhynchophorus palmarum, 182, 188
Rhyzopertha dominica, 133, 250, 253, 593, 594
Ricinus communis, 8, 9
Robinia pseudoacacia, 284, 663, 664, 665, 671
Rosa, 245
Rostrobracon, 547
Rubus idaeus, 70
Rumex, 663, 664, 671
Saccharopolyspora spinosa, 130
Salix aegyptica, 245, 246
Salix alba, 245
Salix babylonica, 245
Salix, 245, 246, 641
Salmonella typhi, 331
Saltusaphis scirpus, 211, 216
Salvia bracteata, 436
Sambucus, 70
Sapromyza biordinata, 523, 526, 527
Sarcodexia lambens, 421
Scaptotrigona bipunctata, 185
Scathophaga jezeki, 389, 390, 392, 393
Scathophaga kaszabi, 389, 390, 392, 393, 396
Scathophaga lutaria, 389, 390, 392, 394, 396
Scathophaga stercoraria, 389, 390, 392, 394, 396

- Scathophaga taeniopa*, 389, 390, 393, 394, 396
Scathophaga, 389, 390, 392, 393, 394, 396
Scheloribates, 443, 446, 448
Schizaphis graminum, 202, 205, 206, 208, 211, 213, 219, 468, 475, 688
Schizotetranychus smirnovi, 290
Sclerotinia sclerotiorum, 31, 32, 34, 36, 37, 38, 39, 42, 53, 55
Sclerotinia, 31, 32, 42
Scolothrips longicornis, 290
Scolothrips takahashii, 290, 605
Scutylenchus, 13
Scymnus levaillanti, 489, 491, 493
Scymnus subvillosus, 605
Scymnus syriacus, 291, 605
Seius echinatus, 674
Seius muricatus, 674
Senecio, 70
Sertitypanum aegyptiacus, 673, 674, 682
Sesamia nonagrioides, 474
Sesamia, 549
Sesbania sesban, 330, 331
Simplicillium, 170
Sinapis alba, 616
Sipha elegans, 200
Sipha flava, 200
Sipha maydis, 200, 209, 213, 606
Sipha, 200, 209, 213
Siringa, 669
Sitobion avenae, 202, 203, 205, 206, 207, 208, 211, 213, 218, 219, 224, 687
Sitobion fragariae, 205
Sitophilus granarius, 2, 143, 330, 331, 589, 590, 591, 592, 594, 595
Sitophilus oryzae, 330, 331, 589, 590, 593, 594
Sitophilus zeamais, 143, 144, 145, 251, 330, 332, 333, 593, 594
Sitophilus granarius, 589, 590, 591, 592, 593
Sitotroga cerealella, 479, 480, 482, 483, 485
Smicronyx fulvus leconte, 157
Smynthuodes betae, 373, 375
Solanum lycopersicum, 378, 499, 500, 573
Solanum melongena, 378
Solanum tuberosum, 39
Solanum, 39, 41
Sorbus, 70
Spalax ehrenbergi, 262
Spartium junceum, 663, 664, 671
Spartocera dentiventris, 291
Sphaerophoria bengalensis, 489, 491
Sphaerophoria sulfuripes, 491
Sphaerotheca fuliginea, 169
Sphaerotheca fusca, 169
Sphaerotheca, 668, 669
Sphecomyia, 69
Spilomyia sericomylaeforme, 70
Spilomyia sibiricum, 70
Spilomyia, 69, 70
Spinola, 127
Spodoptera eridania, 47
Spodoptera exempta, 549
Spodoptera exigua, 147, 148, 150, 152, 154, 155, 156, 158, 196, 197, 457, 549, 550, 632, 635
Spodoptera frugipedra, 134, 454, 455, 550, 632, 634, 635
Spodoptera littoralis, 8, 197, 343, 549
Spodoptera litura, 47, 48, 456, 457, 302, 341, 342, 343
Spodoptera, 341, 342, 343, 632, 634, 635
Stemphylium, 566
Stethorus gilvifrons, 625, 626, 627
Stethorus punctum picipes, 342
Stethorus punctum, 340, 341, 342, 455
Stethorus, 625, 626, 627, 628, 630
Stictylus hastatus, 64
Stictylus intermedius, 65, 66
Stictylus obtusus, 63, 64
Stictylus, 63, 64, 65, 66
Stigmia carpophila, 570
Stiphocera, 416, 417
Stiphocera, 416, 417, 418
Stomoxys calcitrans, 340, 342
Stratiolaelaps, 255
Striga hermonthica, 305, 306, 307, 308, 309, 310, 311, 312, 313, 331, 332
Striga, 305, 306, 307, 308, 310, 311, 312, 313
Synaldis distracta, 415, 420
Synaldis maxima, 416
Synaldis megastigma, 416
Synaldis, 413, 414, 415, 416, 420, 421, 423
Synanthedon tipuliformis, 632
Synzygium aromaticum, 330
Syrirta pipiens, 641
Syrirta, 641
Syrphus frequens, 70
Tagetes minuta, 137, 138, 139, 140, 141, 142, 143, 146
Tanytrichophorus petiolaris, 220, 222
Taraxacum, 663, 664, 668, 671
Tarsohomoneura, 528
Taxomyces andreanae, 658, 661
Taxus brevifolia, 658, 661
Taxus wallichiana, 661
Tectocephus velatus, 446
Telenomus busseolae, 474
Telenomus dendrolimi, 373
Temnostoma aequale, 70
Temnostoma strigosum, 70

- Temnostoma vespiforme*, 69, 70, 71, 72
Temnostoma, 69, 70, 71, 72, 73
Tenebrio molitor, 143, 144, 182, 185, 186, 250, 252, 332, 341
Tephritis pulchra, 550
Terrestribombus, 364
Tetranuchus urticae, 652
Tetranychus bioculatus, 292
Tetranychus cinnabarinus, 145
Tetranychus urticae, 144, 145, 289, 426, 427, 429, 476, 601, 602, 606, 608, 629, 652, 653
Tetranychus viennensis, 290, 605
Tetranychus, 426, 427
Thaumetopoea pityocampa, 651, 652
Thelaxes suberi, 201
Therioaphis khayami, 220
Therioaphis riehi, 217, 220
Therioaphis trifolii, 552
Therioaphis, 217, 220
Thoracobombus, 357, 360, 361, 362, 363, 364, 366, 367
Thrips palmi, 601, 606
Thrips tabaci, 650, 653
Thuja plicata, 8, 10
Thymus daenensis, 656, 658, 659
Thymus eriocalyx, 656, 658, 659
Thymus fallax, 656, 658, 659
Thymus foetida, 616
Thymus kotschyanus, 656, 658, 659
Thymus lancifolius, 656, 658, 659
Thymus vulgaris, 656, 659, 660
Thymus, 655, 656, 657, 658, 659, 660
Thysanoptera, 99, 100, 102, 103
Tilletia caries, 621
Tilletia controversa, 622
Tilletia foetida, 621
Tilletia laevis, 615, 616, 617, 618, 621, 624
Tilletia, 615, 616, 618, 620, 621, 622, 623, 624
Tinocallis nevskyi, 218
Tinocallis saltans, 209
Titanosiphon bellicosum, 204
Titanosiphon neoartemisiae, 204, 221
Tithonia diversifolia, 8, 9
Toxares deltiger, 220
Toxares, 220
Toxomerus marginatus, 491
Toxomerus occidentalis, 491
Toxoptera aurantii, 213, 214, 216
Trachyspermum ammi, 137, 138, 140, 141, 142, 143, 146
Trialeurodes maculata, 163
Trialeurodes vaporariorum, 431, 439, 440, 476, 602
Tribolium castaneum, 143, 251, 436, 439, 440, 589, 590, 592, 593, 594
Tribolium confusum, 455, 589, 590, 591, 592, 593, 594, 595, 601
Tribolium, 341
Trichoderam laevis, 617, 619
Trichoderam, 619
Trichoderma atroviride, 38, 39, 40, 519
Trichoderma brevicompactum, 619
Trichoderma harzianum, 32, 34, 39, 40, 507, 509, 510, 511, 512, 5013, 514, 515, 516, 517, 518, 519, 520, 521, 615, 616, 617, 619, 620, 621, 622, 624
Trichoderma koningii, 619
Trichoderma virens, 31, 32, 34, 38, 39, 40, 42, 619
Trichoderma viride, 40, 519, 520, 616, 619, 620, 621
Trichoderma, 31, 32, 38, 39, 40, 41, 42, 509, 510, 511, 513, 514, 515, 516, 517, 518, 519, 520, 521, 615, 616, 619, 620, 621, 622, 624
Trichogramma brassicae, 295, 302, 342, 474
Trichogramma chilonis, 471
Trichogramma dendrolimi, 373
Trichogramma, 373
Trichoplusia ni, 197, 432
Trichothrips femoralis, 558
Trioxys (Binodoxys) indicus, 476
Trioxys asiaticus, 220
Trioxys cirsii, 220
Trioxys complanatus, 220
Trioxys curvicaudus, 220, 222
Trioxys metacarpalis, 221
Trioxys pallidus, 221, 227, 230, 476
Trioxys pannonicus, 221
Trioxys tanaceticola, 221
Trioxys, 220, 221, 222, 224, 227, 228, 230, 476
Trissolcus grandis, 473, 475
Trissolcus semistriatus, 476
Triticum aestivum, 113, 114, 415, 417, 418, 622, 645
Trogoderma granarium, 425, 427, 428, 429, 430, 434
Trogoderma, 425, 427, 430, 434
Tropidomyia aureifacies, 459
Tropilaelaps, 255
Troxis persicus, 206, 221,
Tuberolachnus, 159
Tychius aureolus, 652
Tylenchorhynchus dubius, 16, 18
Tylenchorhynchus maximus, 16, 19, 401
Tylenchorhynchus, 13, 16, 18, 19, 707
Tylenchus durus, 60, 61
Tylenchus, 19, 60, 61, 65
Typhlodromus bagdasarjani, 625, 626, 627, 628, 630
Typhlodromus khosrovensis, 625, 626, 627, 630
Typhlodromus talebii, 628
Typhlodromus, 625, 626, 627, 628, 630
Tyrophagus putrescentiae, 584, 585
Tyrophagus similis, 584, 585

- Tyrophagus*, 581, 585
Tyrophagus, 582
Ulocladium atrum, 659
Uncinula, 668
Uroleucon acroptilidis, 204, 212, 218, 220
Uroleucon bielawskii, 206, 212
Uroleucon carthami, 206, 220
Uroleucon chondrillae, 204, 206, 220
Uroleucon cichorii, 204, 212, 219, 220
Uroleucon compositae, 204, 206, 212, 219, 220
Uroleucon erigeronense, 204, 212
Uroleucon jaceae, 204, 212, 217, 218, 219, 220
Uroleucon ochropus, 206
Uroleucon sonchi, 203, 204, 206, 211, 212, 218, 219, 220
Uroleucon tortuosissimae, 220
Uroleucon, 203, 204, 206, 211, 212, 214, 217, 218, 219, 220, 227, 230
Urtica, 14
Ventral idiosoma, 257, 259, 316, 675, 677
Venturia canescens, 295, 303
Venturia inaequalis, 39, 40, 177
Verbascum cheiranthifolium, 331
Verbascum sinuatum, 327, 328, 329, 330, 331, 334
Verbascum speciosum, 331
Verbascum thapsus, 557, 560, 561
Vernonia amygdalina, 332
Verticillium lecanii, 163, 166, 168, 169, 170, 426
Verticillium, 160, 163, 168, 169, 170
Vetiveria zizanioides, 8
Vicia faba, 436
Vicia, 384
Vigna radiata, 519
Vigna unguiculata, 86, 283, 284, 332, 333
Vipio mlokoszewiczii, 234, 235, 236, 237, 239
Vipio nomioides, 234, 235, 236, 237, 238, 239
Vipio striolatus, 233, 234, 235, 236, 237, 239, 243
Vipio, 233, 234, 235, 236, 237, 238, 239, 243
Vitex grandifolia, 331
Vitex pseudo-negundo, 594
Vitis vinifera, 626, 628, 629, 683, 684, 690
Volucella bombylans, 641
Volucella inanis, 641
Volucella, 641
Wahlgreniella nervata, 204, 205, 218
Wilsonomyces carpophilus, 563, 564, 565, 566, 567, 568, 569, 570, 571
Withania somnifera, 8, 9, 660
Wolbachia, 474
Xanthomonas alfalfae subsp. *citrumelonis*, 346
Xanthomonas alfalfae, 346
Xanthomonas campestris 21, 27, 28, 29
Xanthomonas campestris pv. *bilvae*, 353
Xanthomonas citri, 345, 346, 347, 350, 353, 354, 355
Xanthomonas fuscans, 346
Xanthomonas oryzae pv. *oryzae*, 56
Xanthomonas translucens pv. *graminis*, 56
Xanthomonas, 21, 27, 28, 29, 345, 347, 349, 352, 353, 354, 355
Xenocriconemella, 410
Xerobion cinae, 214
Xiphinema, 410
Xylocopa, 262
Xylocoris flavipes, 601, 605, 607, 608
Xylopiia aethiopica, 8, 9, 333
Zataria multiflora, 137, 138, 139, 140, 141, 142, 143, 146
Zelus longipes, 290
Zercon pavidus, 674
Zercoseius macauleyi, 674
Zetomotrichus lacrimans, 446
Zetzelia mali, 625, 626, 627, 628, 630
Zeuzera pyrina, 631, 634, 635, 636
Zonocerus variegatus, 433
Zygotylenchus guevara, 401

Subject index for Volume 3, 4236

- 16SrDNA, 345, 377, 381, 382, 384, 577
16SrRNA, 378
18S rDNA, 228, 691, 707
20-hydroxyecdysone, 336, 450, 455
28S rDNA, 669, 691, 692, 705, 706, 707
520, 655, 659
Abundance, 173, 175, 176, 177, 178, 179, 443, 444, 446, 447, 454, 480, 489, 490, 491, 492, 495, 543, 544, 546, 548, 550, 626, 628
Acari, 134, 144, 145, 255, 262, 263, 289, 290, 291, 292, 315, 322, 323, 324, 325, 426, 443, 447, 448, 478, 476, 581, 587, 606, 607, 608, 625, 627, 628, 629, 630, 653, 673, 682
Acizziinae, 611, 614
Agrochemical, 445, 446, 468, 531, 532, 533, 534, 535, 538,
Aleyrodidae, 97, 431, 435, 439, 440, 441, 607
Alfalfa, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 554
Alysiini, 413, 414, 420, 421, 422, 423
Ameroseiid mites (Ameroseiidae), 673, 680, 681, 682
Amplification, 32, 33, 34, 38, 111, 119, 168, 188, 306, 347, 378, 380, 386, 573, 574, 575, 578, 692
Amylase activity, 193-197, 245-253, 302, 655, 656, 659, 661
Amyolytic, 191, 192, 193, 197, 657
Anamorphs, 56, 663, 666
Antagonist, 119, 168, 188, 306, 347, 378, 380, 386, 450, 510, 512, 573, 574, 575, 578, 692
Anthocoris, 597, 598, 601, 603, 604, 605, 606, 607, 609
Antifeedant, 10, 44, 47, 96, 138, 186, 431, 440
Antifungal, 31, 32, 34, 36, 38, 40, 41, 106, 510, 519, 520, 589, 620, 621, 622, 655
Aphid parasitoids, 199, 200, 222, 225, 226, 227, 229, 230, 231
Aphidiinae, 199, 200, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 369, 371, 373, 374, 375, 376
Apple aphid, 96, 173, 174, 175, 176, 177, 178, 179, 291
Apple cultivars, 173, 174, 175, 176, 177, 178
Approximate digestibility, 43, 45, 46, 49
Armyworm, 147, 152, 153, 154, 155, 156, 303, 431, 549, 632, 635
Artificial diets, 192, 295, 296, 297, 298, 299, 300, 301, 479, 480, 481, 484
Asaphes, 369, 370, 371, 373, 374, 376
Asparaginase, 655, 657, 658, 660, 661
Attack rate, 469, 473, 474
AUDPC, 51, 53, 54, 57
Bahariya, 543, 544, 545, 546, 547, 548, 549, 550, 551
Banana wilt disease, 21
Banana, 21, 23, 25, 27, 28
Bayesian, 691, 693, 705, 706, 708
Beet armyworm, 147, 152, 153, 154, 155, 156
Belonolaim, 13, 14, 19, 20
Bioassay, 1, 34, 40, 90, 91, 94, 96, 97, 106, 107, 109, 111, 119, 129, 130, 131, 132, 143, 162, 168, 170, 337, 427, 428, 433, 451, 456, 469, 470, 589, 590, 593
Biocontrol, 31, 40, 48, 59, 106, 109, 110, 111, 112, 159, 160, 167, 168, 169, 178, 179, 200, 224, 227, 229, 287, 290, 292, 305, 306, 307, 309, 312, 431, 432, 433, 439, 475, 507, 509, 510, 514, 518, 52, 553, 605, 607, 608, 615, 616, 619, 620, 621
Biodiversity, 102, 168, 366, 395, 413, 422, 443, 444, 447, 551, 553, 660, 668, 680
Biofungicide, 518, 615, 619
Biological control, 335, 336, 413, 414, 420, 421, 425, 429, 430, 487, 488, 492, 495, 509, 517, 518, 519, 597, 598, 600, 606, 608, 615, 622, 688, 689
Biological parameters, 295, 296, 297, 299, 301, 336, 479, 480, 482, 483
Biopesticide, 303, 615, 619
Biorational, 97, 133, 134, 450
Biplot analysis, 52, 54, 55, 56
Black stem, 51, 52, 54, 55, 56
Blast, 307, 308, 349, 377, 379, 382, 384, 537, 538, 634, 692
Bombus, 357, 359, 361, 362, 363, 364, 365, 366, 367, 462
Bombyliidae, 265, 271, 272
Botanical, 9, 10, 235, 328, 333, 342, 431, 433, 435, 456, 506, 668
Braconidae, 199, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 369, 371, 373, 374, 375, 376, 413, 414, 420, 421, 422, 423, 543
Braconinae, 233, 234, 236, 237, 239, 240, 241, 242, 243, 543, 544, 546, 547, 550, 551, 552, 553, 554, 555, 556
Bulb mite, 581, 582, 584, 585
Bumblebees, 357, 360, 364, 365, 366
Cabbage aphid, 96, 137, 138, 143, 144, 145, 471, 473, 474,
Cacopsylla, 597, 603, 605, 606, 607, 609
Callitula, 125, 126, 127, 128
Canola, 31, 32, 33, 34, 35, 36, 37, 38, 39, 43, 44, 46, 48, 420, 421, 467, 468, 469, 471, 473, 470
Carbamate, 89, 90, 129, 247, 437
Catalase, 499, 500, 501, 502, 505
CATMOD procedure, 469, 599
Cecidomyiidae, 283, 291
Charcoal rot disease, 509, 510, 511, 514, 517, 518, 519, 520, 582,

- Checklist, 102, 199, 127, 200, 223, 224, 240, 375, 413, 414, 421, 528, 555, 560, 680, 707,
Chemical communication, 357, 364, 365
Chemical control, 85, 89, 105, 327, 336, 468, 473, 505, 512, 515, 518
Chemical pesticides, 9, 160, 191, 251, 425, 626
Chemotaxonomic, 358
Chemotaxonomy, 357
Chemotype, 113, 114, 118, 119, 120, 121
Chickpea, 327, 328, 329, 330, 331, 333
Chilling, 148
Chitinases, 31, 425, 429
Chromatography, 115, 138, 144, 149, 338, 357, 358
Citrus canker-like disease, 345
Citrus, 223, 225, 292, 330, 333, 342, 345, 346, 349, 350, 351, 352, 353, 354, 355, 483, 532, 535, 541, 689
Cloning, 31, 32, 34, 40, 41, 111, 186, 253, 379, 386, 431, 432
Coccinellid, 177, 290, 291, 292, 335, 336, 340, 341, 342, 343, 344, 377, 433, 455, 468, 476, 489, 490, 495, 598, 605, 607, 625, 626, 627, 628, 630
COI gene, 159, 160, 161, 163, 225
Cold hardiness, 147, 148, 150, 152, 154, 155, 156, 157
Colorado potato beetle, 129, 130, 131, 132, 133, 134, 135, 181, 182, 185, 187
Conopidae, 459, 462, 464, 465
Conventional, 1, 32, 134, 191, 328, 439, 447, 449, 450, 533, 536, 538, 540, 620
Cowpea aphid, 283, 291
Cryoprotectants, 147, 154, 155, 156, 157
Cucumber, 90, 91, 94, 97, 110, 169, 435, 436, 438, 506, 519, 520, 602, 653
Cyclorrhaphous, 413, 422
Cyhalothrin, 435, 436, 437, 438, 439
Cyst nematodes, 75-87, 410, 506
Cytochrome, 159, 160, 198, 169
Dacnusiini, 413, 414, 416, 420, 423
Damage, 9, 75, 79, 85, 89, 133, 137, 149, 154, 173, 174, 175, 176, 177, 245, 251, 305, 327, 328, 329, 331, 346, 467, 475, 487, 499, 544, 546, 569, 590, 597, 607, 623, 625, 628, 629, 645, 683
Date Palm, 443, 445
Defense, 31, 109, 144, 174, 191, 197, 449, 454, 456, 499, 500, 501, 505, 506, 507, 520, 607, 6022, 683, 684, 685, 687, 688
Delta traps, 631, 634
Deltamethrin, 436, 476
Demograph, 46, 89, 90, 95, 97, 156, 192, 195, 229, 302, 336, 582,
Deoxynivalenol, 113, 119, 120, 121
Description, 14, 17, 19, 60, 62, 63, 65, 70, 84, 99, 102, 113, 115, 127, 226, 227, 228, 230, 240, 241, 242, 255, 256, 271, 273, 274, 315, 316, 322, 358, 370, 371, 373, 375, 395, 397, 398, 399, 400, 408, 409, 410, 459, 528, 545, 552, 557, 560, 565, 612, 648, 673, 674, 693, 696, 697, 704, 706, 707, 708
Deterrency, 8, 143, 144, 186, 333
Developmental period, 683, 685
Diamondback moth, 43, 47, 48
Diet, 94, 97, 185, 192, 193, 195, 246, 247, 295, 296, 297, 298, 299, 300, 301, 302, 303, 337, 427, 479, 480, 481, 482, 483, 484, 506, 586, 629
Differential hemocyte count, 449, 451, 454
Digestive, 46, 191, 192, 193, 195, 197, 245, 246, 251, 252, 253
Dimethoate, 435, 471
Disease incidence, 21, 22, 23, 24, 26, 27
Dispersion, 577, 645, 646, 647, 648, 649, 650, 651
Distribution, 75, 76, 77, 80, 84, 85, 86, 125, 645, 646, 647, 648, 650, 651, 652, 653
DNA Barcode, 159
DON, 113, 114, 115, 116, 117, 118, 119, 123
Dung flies, 389
ECD, 43, 45, 46, 49, 195
ECI, 43, 45, 46, 49, 195, 296, 298, 300, 302
Ectoparasitoids, 233, 255, 369, 475, 476, 549
Electrophoresis, 33, 169, 182, 347, 378, 379, 381
Endemic species, 420
Endoparasite, 47, 199, 303, 369, 413, 456, 462, 464, 499, 550, 684
Endophyte, 351, 352, 655, 656, 657, 68, 660, 661
Entomopathogenic, 59, 66, 85, 159, 160, 162, 163, 165, 167, 168, 169, 170, 425, 426, 426, 427, 428, 429, 430, 431, 432, 433
Epistome, 316, 319, 320, 321, 322
Equitability, 443
Eristalinae, 69
Erysiphaceae, 663, 668, 669, 670, 671
Erysiphales, 663, 668, 669, 670, 671
Essential oil, 1-10, 137, 138, 139, 141, 142, 143, 144, 145, 330, 506, 589, 590, 591, 592, 593, 594
Evenness, 444, 445
Exoprosopa, 265, 266, 267, 268, 269, 270, 271, 272
Extracellular enzymes, 659
Extreme temperatures, 447
Facultative anaerobic, 346, 349, 351
Fauna, 125, 199, 223, 229, 389, 390, 391, 392, 394, 413, 420, 637, 642, 643
Faunistic, 220, 234, 265, 324, 395, 414, 420, 421, 459, 552, 554, 637, 642, 643
Fecundity, 327, 328, 479, 481, 482, 483, 484, 581, 582, 583, 584, 585
Fenitrothion, 436, 475, 476
Fenprothrin, 435, 436, 437
Fenthion, 436

- Fertility, 96, 97, 177, 196, 306, 327, 328, 329, 330, 331
First record, 14, 69, 85, 240, 271, 410, 548, 611, 612, 613, 643, 663
First report, 28, 99, 102, 105, 106, 127, 154, 159, 169, 345, 352, 377, 384, 385, 386, 397, 399, 408, 492, 523, 528, 575, 664, 680
Flower flies, 69, 459, 495, 637, 642
Fluorescence microscopy, 573
Foraging, 9, 224, 229, 283, 284, 285, 286, 287, 288, 289, 291, 364, 468, 474, 476, 553, 602, 606
Formulation, 90, 94, 111, 129, 131, 132, 133, 333, 337, 519, 615, 616, 617, 618, 619, 620, 621, 622
Freeze intolerant, 147, 148, 150, 152
Freeze tolerant, 147, 148, 152
Fructose, 349, 479, 480
Fumigant, 7, 137, 143, 145, 332, 499, 589, 592, 593, 594
functional response, 283, 284, 285, 286, 287, 289, 290, 291, 292, 467, 468, 469, 470, 471, 473, 474, 475, 476, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608
Fungicide, 32, 175, 510, 515, 516, 517, 518, 541, 564, 569, 615, 616, 619
Fungivorous, 673
Gaeolaelaps, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325
Galactose, 349
Gall, 60, 99, 102, 105, 106, 107, 108, 109, 143, 144, 168, 178, 218, 223, 224, 252, 346, 352, 354, 364, 369, 370, 371, 372, 373, 374, 375, 426, 432, 499, 501, 502, 503, 505, 538, 557, 623, 628
GC/Mass, 137, 140, 143
GenBank, 34, 107, 161, 379, 382, 383, 692
Gene expression, 39, 41, 196
Gene, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 51, 52, 54, 77, 111, 118, 120, 121, 161, 161, 163, 169, 186, 196, 197, 228, 253, 279, 346, 351, 352, 353, 426, 432, 456, 578
Genetic recombination, 657
Genomic, 31, 32, 33, 34, 37, 38, 352, 353, 578, 691, 706
Genotype-focused biplot, 51
Glucanase, 31, 32, 34, 37, 38, 39, 40, 41, 506
Glucosamine, 340
Glucosidase, 31, 40, 181, 182, 183, 184, 185, 186, 187, 188
Glycerol, 107, 147, 150, 153, 154
Glycogen, 147, 149, 150, 152, 154, 156, 245, 246, 335, 337, 339, 340
Glyptomorpha, 233, 234, 235, 236, 237, 238, 239, 240, 243
Granulocyte, 449, 450, 452, 454,
Grape erineum mite, 625, 629
Grapefruit, 345, 346, 349
Grapevine aphid, 683, 686, 688, 689
Grapevine, 539, 625, 626, 628, 629, 683, 686, 688, 689
Grasslands, 13, 14, 18, 19
Handling time, 283, 284, 285, 286, 287, 467, 469, 470, 471, 473, 597, 599, 600, 602, 604
Hexaflumuron, 335, 338, 339, 340, 341, 343, 457
Hexatylinia, 59, 60
Holling, 291, 468, 469, 475, 600, 606
Homeostasis, 336
Honeydew, 89, 173, 435
Hormones, 47, 336, 341, 342, 343, 449, 450, 455, 456, 457
Host association, 199, 200, 226, 227, 228, 229, 241, 373, 420, 495
Host plant resistance, 43, 44, 173, 174, 181, 191, 192, 303, 597, 598, 602
Hoverflies, 73, 487, 488, 489, 490, 492, 626, 637, 641, 642, 643
HPLC, 113, 115, 116, 117, 118, 123, 149
Humoral immunity, 450
Hydroxyecdysone, 336m 450m 455
Hyperparasitoids, 369, 370, 373, 374, 375, 487, 489
Hypoaspidinae, 255
Idolothripinae, 99, 100, 102, 103
IGRS, 440, 449, 450, 451, 452, 454, 455
Imidacloprid, 89, 90, 91, 92, 93, 94, 95, 96, 97, 435, 436, 437, 438, 440
Immune responses, 449, 450
immunosuppressive, 449, 455
Improvement biocontrol ability, 509
Incidence, 21, 22, 23, 24, 26, 27, 77, 79, 108, 113, 114, 120, 154, 386, 570, 5877, 615, 617, 618, 619
Indian meal moth, 295, 296, 298, 300, 301, 302, 303
Induced Systemic Resistance, 504
Insect growth regulators, 336, 449, 450, 455
Insect pathology, 66, 159
Insecticide, 90, 91, 92, 93, 94, 95, 96, 97, 137, 139, 144, 145, 331, 332, 435, 440, 435, 436, 437, 438, 439, 440
Integrated control, 144, 145, 228, 374, 375, 449, 484, 652
Integrated management, 47, 173, 177, 196, 331, 519
Integrated pest management, 1, 44, 89, 95, 137, 143, 174, 178, 191, 333, 336, 422, 450, 468, 492, 507, 510, 554, 598, 604, 631
IPM, 44, 46, 89, 133, 174, 191, 336, 422, 435, 436, 439, 440, 468, 469, 631, 634, 636
Isolate-focused biplot, 51
Iwao's patchiness regression, 645, 647, 648, 650, 651
Juvenile hormone, 336, 341, 450, 455, 456, 457
Kairomones, 468, 635
Khapra beetle, 425, 427, 429, 430
koinobiont, 303, 413
Labial glands, 357

- ladybird beetles, 179, 335, 342, 487, 489, 490, 492, 494, 628
Laelapidae, 255, 258, 262, 263, 315, 322, 323, 324, 325, 581
Lauxaniidae, 523, 524, 525, 526, 527, 528, 529
leafminer, 135, 420, 421, 651, 652
lectin, 191
Leopard moth, 631, 632, 633, 634
lettuce aphid, 487, 488, 489, 491, 492, 494, 495, 496
lipases, 106, 107, 108, 110, 340, 341, 425, 429, 432
Lloyd's index, 645, 647, 648, 651
Logistic regression, 467, 469, 470
longevity, 89, 91, 92, 93, 94, 297, 298, 299, 301, 302, 303, 336, 340, 341, 342, 479, 480, 481, 482, 483, 581, 582, 583, 585
Long-legged flies, 389
Low molecular weight carbohydrates, 338
Malathion, 97, 436, 437
Management strategies, 24, 77, 114, 192, 246, 450, 598
Mannitol, 349
Mass rearing, 295, 296, 301, 302, 303, 328, 480, 483, 484
Maximum likelihood, 162, 285, 312, 387, 469, 599, 601, 691, 693, 709
Mealybugs, 289, 335
Medicinal plants, 137, 138, 140, 141, 145, 229, 331, 332, 333, 557, 589, 594, 655, 656, 657, 658, 660, 661
Mediterranean flour moth, 449, 450, 456
Melon, 89, 91, 97, 169, 509, 510, 511, 512, 514, 516, 517, 518, 519, 621, 683
Merliniidae, 691, 706, 707, 708, 709
Merliniinae, 13, 19, 691, 706, 707, 708, 709
Mesosoma, 126, 371, 372
Mesostigmata, 315, 322, 323, 324, 325, 673, 680, 681, 682
Metamorphosis, 336, 450
Methoprene, 340, 341, 342, 450, 456
Methoxyfenozide, 449, 450, 451, 452, 453, 454, 455, 457
Microdontinae, 69
Microhabitats, 443, 444, 445, 446, 447
Midgut, 181, 183, 184, 185, 186, 187, 188, 245, 246, 247, 248, 249, 250, 252, 253
Milesiinae, 637, 638, 642, 643, 644
Molecular analysis, 31, 33
Molecular characterization, 306, 307, 309, 312, 385, 386, 387, 431, 519, 554, 578, 579, 691, 705
Molting, 138, 336, 450, 456, 684
Monoclonia, 369, 370, 373, 374, 375, 376
Monoterpenoids, 9, 145
Morisita index, 645, 647, 648, 651
Morphometric, 14, 17, 59, 60, 62, 273, 358, 397, 398, 399, 692, 706
Mullein plant, 327, 328, 329, 331
Multiple regressions, 487
Mummified, 369, 370, 371
Muscoidea, 389
Mutagenesis, 509, 510, 512, 518
Mutants, 252, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519
Mycoherbicide, 305, 311, 312
Mycophagous, 557
Myo-inositol, 147, 150, 153, 154
Nematicide, 79, 105, 107, 109, 110, 111, 499
Neonicotinoid, 89, 90, 97, 439, 440, 471, 476
Neotylenchidae, 59, 60, 65
Nesothrips, 99, 100, 101, 102, 103
Neurotoxic insecticides, 138, 341, 342, 450, 468, 592
New host, 240, 386, 547, 579, 663, 664, 665, 667
New record, 13, 59, 69, 125, 127, 233, 240, 265, 266, 369, 271, 389, 390, 459, 523, 543, 546, 548, 557, 558, 637, 639, 642, 663
New species, 255, 262, 315, 317, 322, 323, 324
Non-chemical strategies, 425
Non-volatile inhibitors, 509, 511, 514
Nutritional indices, 43, 44, 45, 46
Oil based treatment, 331
Optimize pesticide application, 531
Organic wheat, 615, 616
Oribatid mites, 443, 444, 445, 446, 447, 448
Overwintering, 147, 148, 150, 152, 154, 155, 156, 157, 563, 564, 565, 566, 568
Ovicidal effect, 129, 131, 133, 330, 331, 333, 340
Pachyneuron, 369, 370, 371, 372, 373, 374, 375, 376
Parasitism, 39, 40, 97, 207, 223, 224, 289, 302, 312, 373, 374, 375, 462, 467, 469, 470, 471, 473, 474, 475, 476, 489, 491, 494, 496, 510, 552, 607, 683, 684, 685, 687, 688, 689
Parasitoids, 199, 200, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 295, 301, 369, 370, 371, 373, 413, 420, 421, 422
Pathogenesis, 31, 40, 113, 114, 118, 120, 160, 431
Pathogenicity, 51, 54, 110, 114, 119, 159, 160, 161, 168, 169, 170, 312, 345, 346, 347, 349, 351, 352, 353, 431, 432, 433, 456, 563, 565, 566, 568, 569, 570
PCR, 31, 32, 33, 34, 35, 36, 37, 38, 39, 42, 118, 120, 306, 347, 348, 353, 354, 377, 378, 379, 380, 381, 382, 384, 386, 387
PDA, 34, 52, 115, 162, 306, 307, 510, 511, 563, 564, 565, 571, 616, 656, 657
Pear psylla, 597, 598, 600, 604, 605, 606, 607
Pear varieties, 597, 598, 599, 600, 601, 602, 603, 604, 606
Pemphigus, 216, 224, 369, 370, 371, 373, 374, 375, 376
Peroxidase, 499, 500, 501, 502, 503, 505

- Pest control, 145, 168, 181, 229, 230, 246, 251, 413, 439, 450, 496, 537, 553, 589, 626, 629, 631, 646, 688
Pharyngeal glands, 60, 63, 279, 397, 398, 400, 408, 691, 693, 694, 695, 697, 698, 700, 702, 704
Phenolics, 177, 178, 500, 505, 506
Phenthoate, 436
Phenylalanine ammonia lyase, 499, 501, 503
Pheromone, 357, 358, 360, 364, 365, 366, 631, 634, 635
Phlaeothripidae, 99, 100, 102, 103
Phyllody diseases, 379, 380, 382, 385, 386
phylogenetic, 13, 159, 160, 163, 169, 170, 350, 351, 358, 377, 379
Phylogeny, 19, 169, 199, 224, 225, 228, 352, 353, 406, 410, 464, 663, 667, 668, 669, 691, 707, 708
Physiological adaptations, 147, 337
Phytoalexins, 500
Phytopathogens, 32, 36, 40, 106, 387, 399, 518, 573, 578, 615
Phytoplasma, 377, 379, 380, 382, 383, 384, 385, 386, 387, 388, 573, 574, 575, 576, 577, 578, 579
Pirimicarb, 89, 90, 91, 92, 93, 94, 95, 96, 97, 467, 468, 469, 470, 471, 473
Pistachio psylla, 335, 337
Plasmacyte, 450, 452, 453, 454, 449
Plasmids, 32, 33, 37, 346, 352
Polo PC, 91, 96, 139, 145, 162, 451
Polo Plus, 428, 469, 475
Polyhydroxy alcohols, 147
Poplar spiral gall, 369
Poplar, 60, 227, 230, 241, 245, 369, 370, 375
Population fluctuations, 487, 488
Population management, 431
Powdery mildew, 663, 667, 668, 669
PPA, 306
Pratylenchoides crenicauda, 397, 398, 399, 401, 404, 405, 407, 411, 691, 693, 694, 695, 696, 705, 708
Pratylenchoidinae, 691, 706, 707, 708, 709
Predation, 597, 598, 602, 604, 606, 607
Predator, 581, 583, 585, 586
Predator–prey dynamics, 284
Predatory species, 625
Preimaginal development, 581
Prevalence, 21, 86, 621
Procorpus, 399, 400
Protease, 106, 107, 108, 109, 110, 111, 191–197, 253, 302, 425, 426, 428, 429, 430, 431, 432
Proteinase inhibitors, 191, 196, 197
Proteolytic, 105, 109, 156, 191, 192, 193, 194, 195, 196, 197, 246, 253, 425, 426, 428, 429, 430
Prothallonema, 60, 61, 63, 65, 66
Pruning, 21, 26, 27
Pseudoparasitus, 255, 256, 258, 259, 260, 261, 262, 263
Psyllidae, 335, 344, 611, 612, 613, 614
Pteromalids, 125, 127, 128, 396, 370, 374, 375, 376
Pycnidiospore, 52
Pyrethrum, 435, 436, 437, 439
Pyriproxyfen, 341, 343, 436, 449, 450, 451, 452, 453, 454, 455, 456, 605
RCR, 43, 45, 46, 49, 296, 297, 298, 300
rDNA sequencing, 347, 349
Rehabilitation, 21, 23, 24
RFLP, 377, 379, 380, 381, 382, 384, 385, 386, 388, 573, 574, 575, 577, 578, 580
RGR, 43, 45, 46, 49, 296, 298, 300
Rhizosphere, 60, 61, 63, 66, 105, 109, 274, 398, 399, 400, 408, 410
Richness, 444, 447
Root knot disease, 105
Root-knot nematode, 105, 106, 110, 111, 499, 503, 505, 506, 507
Rosy apple aphid, 173, 174, 175, 176, 177, 178, 179
Salicylic acid, 193, 246, 499, 500, 503, 505, 506
Saprophagous, 523, 527, 637
Scathophagidae, 389, 390, 394, 395, 396
Searching efficiency, 283, 286, 287, 288, 291, 597, 599, 600, 604
Seed weight loss, 327, 328, 330
Sequence analysis, 347, 349, 352, 353
Sequencing, 32, 34, 35, 160, 161, 186, 345, 347, 348, 349, 353, 379, 705
Shannon-Wiener index, 443, 444, 445
Shot-hole disease, 563, 568
Silverleaf whitefly, 435, 438
Single-tube nested PCR, 573, 574, 577
Soft bodied insects, 479
Soil borne plant pathogens, 509, 510, 518
Soil-borne, 51, 615
Soil-living, 315
Sorbitol, 147, 150, 153, 349
Southern dot blotting, 31
Spatial distribution, 645, 646, 651, 653
Species diversity, 271, 443, 444, 445, 447, 492, 554
Spermatheca, 17, 60, 63, 271, 274, 279, 398, 399, 400, 693, 695, 697, 702, 706
Sphaerulariidae, 59, 60, 67
Spinosad, 47, 129, 130, 131, 132, 133, 134, 135
Spirodiclofen, 335, 337, 339, 340, 341, 342, 343
Stone fruit, 225, 226, 227, 397, 563, 565, 568, 569, 570
Stored products, 133, 135, 144, 145, 295, 302, 303, 327, 329, 333, 449, 450, 581, 589, 590, 593, 594, 607, 635
Sublethal, 89, 90, 91, 94, 95, 97, 336, 338, 341, 342, 449, 457, 467, 468, 469, 471, 474, 476
Sucrose, 33, 187, 349, 479, 480
Sunflower, 51, 52, 53, 54, 55, 56, 157, 192, 410, 471
Sunn pest, 186, 473, 645, 646, 648, 650, 651, 652, 653

- Supercooling point, 147, 155
Syrphid, 69, 72, 73, 637, 642, 643, 644, 489, 491, 492, 496
SYSTAT, 428
Taylor's power law, 645, 647, 648, 650, 651, 653
Teleomorphic, 663
Telotylenchidae, 13, 707
Temnostoma, 69, 70, 71, 72, 73
Termite, 1-10, 85, 143, 187, 188, 324
Termiticide, 1, 2
Thiamethoxam, 134, 435, 436, 437, 438, 439, 467, 468, 469, 470, 471, 473
Thoracobombus, 357, 360, 361, 362, 363, 364, 366, 367
Thymus, 655, 656, 657, 658, 659, 660
Thysanoptera, 99, 100, 102, 103, 134, 135, 169, 290, 557, 560, 561
Tomato diseases, 377, 387, 577, 579
Tomato Witches' Broom, 377, 378, 380, 382, 383, 384, 578,
Tomato, 105, 106, 107, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 573, 574, 575, 576, 577, 578, 579
Topical application, 159, 162, 589, 590, 592, 593
Total hemocyte count, 449, 451, 453
Transformation, 31-41, 91, 660
Transgene, 31, 33, 35, 36
Transgenic plants, 31, 32, 33, 34, 35, 36, 37, 38, 39, 246, 251, 432
Transmission, 28, 170, 352, 377, 378, 379, 384, 385, 386, 534, 537, 573, 577, 578, 597, 689
Trapezoidal traps, 631, 632, 634
Trehalose, 147, 150, 152, 154, 156, 338, 339, 340, 341, 342, 349
Tylenchids, 13, 19, 59, 60, 95, 66, 86, 279, 280, 409, 410, 691, 692, 703, 706, 707, 708
Tylenchulidae, 273, 279, 280, 281
Ultrasonic sensors, 531, 532, 535, 536, 537
Ungal isolates, 305, 306, 307, 308, 309, 310, 311, 425, 426, 427, 656
Urban landscapes, 420
Vipio, 233, 234, 235, 236, 237, 238, 239, 243
Virulence assays, 427
Virulence, 39, 51, 56, 118, 121, 162, 163, 167, 170, 305, 307, 309, 346, 352, 425, 426, 427, 428, 429, 430, 431, 432, 433, 563
Volatile inhibitors, 509, 511, 512, 514,
Walnut pest, 631
Walnut, 9, 226, 230, 273, 274, 279, 295, 401, 631, 632, 634
Whiteflies, 90, 167, 169, 188, 335, 341, 433, 435, 436, 437, 438, 439, 440, 557, 607
Willow leaf beetle, 245, 252, 253
Witches'- broom, 377, 378, 379, 380, 381, 382, 383, 384, 386
Zymogram, 182, 184
 β -glucanase gene (*bgn13.1*), 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 42