

Contributors Names and Addresses

Preface

Opening Address	p. 3
Welcoming Remarks	p. 5
Welcoming Remarks	p. 7
Keynote Address: Message from a Non-Pest Fruit Fly	p. 9
Overview of Research on the Behavior of Fruit Flies	p. 19
Behaviors of California Fruit Flies and the Evolution of Tephritid Mating Systems	p. 27
Acoustical Comparisons of Calling Songs from Anastrepha Species in Brazil	p. 37
Comparative Mating Systems of Two Rhagoletis Species: The Adaptive Significance of Mate Guarding	p. 43
Sexual Behavior and Signals Used for Mating of Bactrocera correcta	p. 51
Influence of Some Visual Stimuli on the Selection of Oviposition Site by Ceratitis (Pterandrus) rosa	p. 59
Ovipositional Responses to Apple in a Caged Tree by Anastrepha fraterculus in Southern Brazil	p. 67
Olfactory Semiochemicals of Tephritids	p. 73
Pheromones of Mediterranean Fruit Fly: Presumed Mode of Action and Implications for Improved Trapping Techniques	p. 91
Morphology of Adult Male Rectum of Seven Species of Anastrepha from Brazil and Mating Behavior Correlations	p. 101
Volatile Components from the Salivary Glands of Calling Males of the South American Fruit Fly, Anastrepha fraterculus: Partial Identification and Behavioral Activity	p. 107
Attraction of Female Mediterranean Fruit Flies to Identified Components of the Male-Produced Pheromone: Qualitative Aspects of Major, Intermediate, and Minor Components	p. 115
Plant Volatiles Evoke and Modulate Tephritid Behavior	p. 123
Trap Utilization by Mediterranean Fruit Fly Populations in Citrus Groves in Portugal	p. 135
Mark-Recapture Studies of Walnut Husk Flies Attracted to Food-Based Lures	p. 141
Sex Pheromone and Mating Competition after Methyl Eugenol Consumption in the Bactrocera dorsalis Complex	p. 147
Tephritidae in the Biological Control of Weeds	p. 157
Reduction of Seed Set in Nodding Thistle (Carduus nutans) by the Seed-Fly, Urophora solstitialis, in Australia	p. 165
Tephritid Flies in the Biological Control of Yellow Starthistle	p. 171
Towards the Application of Genetic Sexing in Tephritid Fruit Fly SIT Programs	p. 179
Development and Application of Genetic Sexing Systems for the Mediterranean Fruit Fly Based on a Temperature Sensitive Lethal	p. 185
Assessment of Irradiation Doses for TSL (Thermal Sensitive Lethal) Strain Vienna 42	p. 193
Review of Session VI, Genetics/Biochemistry	p. 199
Mapping an Isozymic Gene Expressed in Pupae with Respect to Adult Markers in Ceratitis capitata	p. 205

Sequence from Eye Color Genes, Chorion Gene and Mariner-like Transposable Elements in the Queensland Fruit Fly, <i>Bactrocera tryoni</i>	p. 209
An Analysis of the hobo Transposable Element for Gene-Vector Development	p. 221
Linkage Analysis of Genetic Markers in the Oriental Fruit Fly	p. 231
Genetic Studies of the Melon Fly, <i>Bactrocera cucurbitae</i>	p. 237
Heterosis in <i>Ceratitis capitata</i>	p. 243
Fruit Fly Taxonomy: Recent Advances and New Approaches	p. 253
<i>Anastrepha</i> Species from the Brazilian Amazon: Distribution, Hosts, and Lectotype Designations	p. 259
Population Genetic Studies of Tephritid Flies of Economic Importance	p. 267
Genetic and Morphological Differentiation in the Specialist Species <i>Anastrepha pickeli</i> and <i>A. montei</i>	p. 273
Genetic Variability in <i>Anastrepha pseudoparallela</i> : A Specialist Species	p. 277
Genetic and Statistical Analysis of Colonization	p. 281
Distribution of Mitochondrial DNA Haplotypes Among <i>Ceratitis capitata</i> Populations Worldwide	p. 291
Demography of Fruit Flies and Implications to Action Programs	p. 299
Future Trends in Fruit Fly Management	p. 309
Population Dynamics of Fruit Flies in Itaguaí County, State of Rio de Janeiro, Brazil. I - Survey of the Species	p. 321
Susceptibility of Different Mango Varieties (<i>Mangifera indica</i>) to the Attack of the Fruit Fly, <i>Anastrepha obliqua</i>	p. 325
Cyromazine: Effects on Three Species of <i>Anastrepha</i>	p. 333
Relative Resistance of Avocado Germplasm to Caribbean Fruit Fly	p. 339
Hosts for <i>Ceratitis capitata</i> and <i>Anastrepha fraterculus</i> in the Northeastern Province of Entre Ríos, Argentina	p. 343
Life Cycle of <i>Anastrepha grandis</i>	p. 347
The Natural Host Plants of <i>Anastrepha</i> in the State of Amazonas, Brazil	p. 353
Comparison of the Biology of <i>Anastrepha obliqua</i> Reared in Mango (<i>Mangifera indica</i> L.) and in Mombin (<i>Spondias mombin</i>) Infested Under Field Conditions	p. 359
Status and Needs of Biological Control Research for Tephritid Flies	p. 365
The Past and Potential of Biological Control of Fruit Flies	p. 369
Inundative Release of the Parasitoid <i>Diachasmimorpha longicaudata</i> for the Control of the Caribbean Fruit Fly, <i>Anastrepha suspensa</i>	p. 377
Quality Control and SIT Field Testing with Genetic Sexing Mediterranean Fruit Fly Males	p. 385
Problems Encountered During Long-Term SIT Programs in Japan	p. 391
Implementation of Technical and Managerial Systems for Quality Control in Mediterranean Fruit Fly (<i>Ceratitis capitata</i>) Sterile Release Programs	p. 399
Competitive Behavior of Males of Mediterranean Fruit Fly, <i>Ceratitis capitata</i> , Genetic Sexing Strain Vienna-42	p. 405
Movement of Sterile Melon Flies in Okinawa, Japan	p. 415
Ethological Analysis of Medfly Courtship: Potential for Quality Control	p. 425
The Influence of Four Phenols on the Olive Fruit Fly	p. 433
Artificial Selection Experiments in the Melon Fly: The Status Quo and Problems	p. 437

Metamorphosis in the Mediterranean Fruit Fly, <i>Ceratitis capitata</i>	p. 445
Quality Assessment of Mass-Reared <i>Bactrocera zonata</i>	p. 459
Suppression of Mediterranean Fruit Fly Populations with SIT in Two Habitats: A Coffee Agroecosystem with a Braconid Parasitoid and a Forest with Scattered Patches of Understorey Coffee	p. 467
Synopsis of Postharvest Quarantine Treatment Research	p. 473
Irradiation as a Quarantine Treatment Against Fruit Flies	p. 479
Postharvest Fruit Fly Disinfestation of Papaya	p. 485
Cold Treatment, the Caribbean Fruit Fly, and Carambolas	p. 489
Mortality of Caribbean Fruit Fly in Coated Fruits	p. 495
Fruit Fly Larval Mortality from Thermal Treatments Varies with Substrate Type	p. 499
A Rapid Test for Distinguishing Irradiated from Unirradiated Mediterranean Fruit Fly, <i>Ceratitis capitata</i> Larvae	p. 505
Action Programs Against Fruit Flies of Economic Importance: Session Overview	p. 513
Advances in the National Fruit Fly Control and Eradication Program in Argentina	p. 521
California Industry Comments	p. 531
Role of the Private Sector in Action Program Research Needs	p. 533
Queensland Fruit Fly (<i>Bactrocera tryoni</i>): Eradication from Western Australia	p. 535
The Successful Eradication Programs of the Melon Fly in Okinawa	p. 543
California's 1993/1994 Mediterranean Fruit Fly Eradication Program	p. 551
Behavioral Control of Apple Maggot Flies	p. 555
The Mexican National Fruit Fly Eradication Campaign: Largest Fruit Fly Industrial Complex in the World	p. 561
Eulogy for G. Gregor Rohwer	p. 565
Fourth International Symposium on Fruit Flies of Economic Importance: Final Program	p. 567
Taxonomic Index	p. 577
Author Index	p. 581
Subject Index	p. 583
Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.	