

Contributions to a
MANUAL OF PALAEARCTIC DIPTERA
(with special reference to flies of economic importance)

Volume 1

General and Applied Dipterology

László Papp and Béla Darvas
(Editors)

Published by
Science Herald, Budapest

2000

Contents

General and Applied Dipterology

| | | |
|-------|--|-----|
| 1.0. | Introduction – L. Papp and B. Darvas | 7 |
| 1.1. | Morphology and terminology of adult Diptera (other than terminalia) – B. Merz and J.-P. Haenni | 21 |
| 1.2. | Morphology and terminology of Diptera male genitalia – B. J. Sinclair | 53 |
| 1.3. | Morphology and terminology of the female postabdomen – M. Kotrba | 75 |
| 1.4. | Morphology and terminology of Diptera larvae – G. W. Courtney, B. J. Sinclair and R. Meier | 85 |
| 1.5. | Key to families – adults – L. Papp and H. Schumann | 163 |
| 1.6. | Key to families – larvae – K. G. V. Smith and P. Ferrar | 201 |
| 1.7. | Genetic systems in Palaearctic Diptera – M. Ashburner | 241 |
| 1.8. | Postembryonic and imaginal development of Diptera – B. Darvas and A. Fónagy | 283 |
| 1.9. | Phenology and diapause in Diptera – D. S. Saunders | 365 |
| 1.10. | Communication in Diptera (including semiochemicals) – G. E. Haniotakis | 405 |
| 1.11. | Ecology of Diptera – K. Hövemeyer | 437 |
| 1.12. | Beneficial Diptera and their role in decomposition – I. F. G. McLean | 491 |
| 1.13. | Entomophthorales on Diptera – J. Eilenberg | 519 |
| 1.14. | Review of the Diptera palaeontological records – W. Krzemiński and N. L. Evenhuis | 535 |
| 1.15. | Agricultural dipteran pests of the Palaearctic region – B. Darvas, M. Skuhrová and A. Andersen | 565 |
| 1.16. | Palaearctic dipteran forest pests – M. Skuhrová and A. Roques | 651 |
| 1.17. | Exotic dipteran pests in Europe – B. Darvas and L. Papp | 693 |
| 1.18. | Traumatic myiasis of humans and animals – M. J. R. Hall and R. Farkas | 751 |
| 1.19. | Secretophagous and haematophagous higher Diptera – J. A. Hogsette and R. Farkas | 769 |
| 1.20. | Forensic dipterology – F. Introna and C. P. Campobasso | 793 |
| 1.21. | Biological control of aquatic Diptera – E. F. Legner | 847 |
| 1.22. | Principles of control of phytophagous Diptera – L. Pap | 871 |
| 1.23. | Control possibilities of filth-breeding flies in livestock and poultry production – R. Farkas and J. A. Hogsette | 889 |
| 1.24. | Insect development and reproduction disrupters – B. Darvas and R. Weaver | 905 |
| | Index – L. Peregovits, Zs. Forgács and B. Darvas | 949 |