

List of contents

| | | | | | |
|-------|--|-----|-------|---|-----|
| 1. | Brief Description, Collecting and Rearing Archaeognatha | 1 | 8.9 | Reproductive System and Reproduction | 132 |
| 1.1 | Main External Characteristics | 1 | 8.10 | Circulatory System and Circulation | 140 |
| 1.2 | Collecting | 2 | 8.11 | Tracheal System and Respiration | 142 |
| 1.3 | Rearing | 3 | 8.12 | Sense Organs and Sensilla | 144 |
| 2. | Historical Review | 5 | 9. | Embryonic Development | 153 |
| 3. | Fossil Record | 9 | 9.1 | Eggs | 153 |
| 4. | Systematics | 17 | 9.2 | Early development | 153 |
| 4.1 | General remarks | 17 | 9.3 | External features of development | 156 |
| 4.2 | Key to generic groups of Machiloidea using phylogenetic characters | 21 | 9.3.1 | Morphogenesis | 156 |
| 4.3 | Machiloidea incertae sedis | 24 | 9.3.2 | Migration and growth of the embryo, and hatching | 160 |
| 4.4 | Familia Machilidae (restr.) | 25 | 9.4 | Embryonic membranes and related phenomena | 162 |
| 4.4.1 | Subfamilia Machilinae (restr.) | 28 | 9.4.1 | Amnioserosal fold | 162 |
| 4.4.2 | Subfamilia Petrobiinae | 30 | 9.4.2 | Embryonic membranes after the withdrawal of amnioserosal fold | 165 |
| 4.4.3 | Subfamilia Petrobiellinae (restr.) | 31 | 9.4.3 | Yolk folds | 165 |
| 4.5 | Familia Meinertellidae, Verhoeff (1910) | 31 | 9.4.4 | Blastokinesis | 166 |
| 5. | Behaviour | 37 | 9.4.5 | Serosal cuticle | 166 |
| 6. | Biogeography | 55 | 9.5 | Ectodermal derivatives | 166 |
| 7. | Ecology | 63 | 9.5.1 | Nervous system | 167 |
| 8. | Morphology, Anatomy, Physiology | 73 | 9.5.2 | Ectodermal invaginations | 168 |
| 8.1 | Introduction and Head | 73 | 9.5.3 | Stomodaeum and proctodaeum | 169 |
| 8.2 | Thorax | 87 | 9.6 | Mesodermal derivatives | 169 |
| 8.3 | Abdomen and Genital Appendages | 99 | 9.7 | Endodermal derivatives | 171 |
| 8.4 | Sexual Dimorphism of Non-genital Parts | 112 | 9.8 | Metamerism | 173 |
| 8.5 | Somatic Musculature | 115 | 9.9 | Concluding remarks | 173 |
| 8.6. | Nervous System | 121 | 10. | Postembryonic Development | 175 |
| 8.7 | Digestive Tract and Excretory Organs | 124 | 11. | Evolutionary Aspects | 187 |
| 8.8 | Neurosecretory Cells, Neurohemal and Endocrine Organs | 129 | 12. | Literature | 193 |
| | | | | Index | 211 |