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Bibliography of Phasmida (Insecta) VI. 1980–1984

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Abstract

The literature on the stick- and leaf-insects (order Phasmida) published during the period 1980–1984 has been reviewed. 198 scientific papers, chapters in books, theses etc. are listed. A systematic index is included.

1. Introduction

The stick- and leaf-insects (order Phasmida) contain some 2500 described species. Of those species only a few have been studied and therefore the number of publications are few in relation to the number of species. From the period 1930–1979 only ca. 1280 papers have been found¹⁾, i. e. ca. 26 papers annually. Even if all papers are not included, the number is small. Therefore, in order to assist new workers on this group, it was necessary to continue this series of bibliographies. This sixth part covers the period 1980–1984 and contains 198 references, i. e. ca. 40 papers annually.

The literature has been found by searching in reference journals, from the references found in the papers listed therein, and from reprints, theses and reports obtained from individual scientists as well as institutions. Papers not seen in original are marked with a star (*) and followed by the source in brackets (). The references are listed in alphabetical order for the whole five year period, followed by a systematic index. References dealing with ten or more species, or of general nature, have been classified as “general and/or multispecies works“. Furthermore, references dealing with the common laboratory stick *Carausius morosus* (de Sinéty) have been omitted in the systematic index since they are to numerous.

If some papers are not included which have been published during the period cover in this, or any other works, I should appreciate receiving a reprint of that paper.

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2. Literatur

ADLER, V. E. & E. C. UEBEL 1984: Antifeedant bioassays of neem extract against the Carolina grasshopper, walkingstick, and field cricket. – J. Environ. Sci. Health. A 19: 393–403

¹⁾ Previous parts covering the following periods have appeared as follows:

Part I. 1970–1979. – Spixiana 6 (1983): 27–43

Part II. 1960–1969. – Beitr. Ent., Berlin 35 (1985): 3–12

Part III. 1950–1959. – Beitr. Ent., Berlin, 36 (1986): 255–260

Part IV. 1940–1949. – Beitr. Ent., Berlin, 37 (1987): 197–202

Part V. 1930–1939. – Beitr. Ent., Berlin, in print

- Natura (N. S.) 12: 1–45
-- 1984b: Preparação e preservação de insectos: Sinopse dos métodos a seguir. – Arq. Mus. Boc. (Série D), vol. II n° 2: 25–40
Amateur Entomologist's Society (AES) 1980: Rearing stick insects. – AES leaflet 30: 1–27
ASHCROFT, F. M. 1980: The electrical constants of the skeletal muscle fibres of the stick insect, *Carausius morosus*. J. exp. Biol. 86: 249–258
-- 1981: Calcium action potentials in the skeletal muscle fibres of the stick insect *Carausius morosus*. – J. exp. Biol. 93: 257–267
-- & P. R. STANFIELD 1980: Inactivation of calcium currents in skeletal muscle fibres of an insect dependent on calcium entry. – J. Physiol. 308: 36 P
-- & -- 1981: Calcium dependence of the inactivation of calcium currents in skeletal muscle fibres of an insect. – Science 213: 224–226
-- & -- 1982: Calcium and potassium currents in muscle fibres of an insect (*Carausius morosus*). – J. Physiol. 223: 93–116
BACCETTI, B. 1982: The evolution of the sperm tail. In: Amos, W. B. & J. G. Duckett (Eds.) Prokaryotic and Eukaryotic Flagella. – Soc. Exp. Biol. Symp. 35: 521–532
-- , BURRINI, A. G., GABBIANI, G. & P. LEONCINI 1984: Prekeratin like filaments in insect tracheal taenidia. – J. Submicrosc. Cytol. 16: 89–91
-- , -- , -- , -- & E. RUNGER-BRANDLE 1984: Filamentous structures containing a keratin-like protein in spermatozoa of an insect, *Bacillus rossius*. – J. Ultrastruc. Res. 86: 86–92
-- & R. DALLAI 1980: Regressive spermiogenesis in insects. – XVI Int. Congr. Entomol., Kyoto, 3–9 August 1980, Abstract no. 2R–2, 13, p. 54
BÄSSLER, U. 1983a: Neural basis of elementary behaviour in stick insects. – Studies in brain function 10: 1–169 (Springer Verlag)
-- 1983b: The neural basis of catalepsy in the stick insect *Cuniculina impigra*. 3. Characteristics of the extensor motor neurons. – Biol. Cybern. 46: 159–165
-- 1984: A movement generated in the peripheral nervous system: Rhythmic flexion by autotomized legs of the stick insect *Cuniculina impigra*. – J. exp. Biol. 111: 191–199
-- & E. FOTH 1982: The neural basis of catalepsy in the stick insect *Cuniculina impigra*. 1. Catalepsy as a characteristic of the femur-tibia control system. – Biol. Cybern. 45: 101–105
-- & J. STORRER 1980: The neural basis of the femur-tibia-control-system in the stick insect *Carausius morosus*. 1. Motorneurons of the extensor tibiae muscle. – Biol. Cybern. 38: 107–114
-- , -- & K. SAXER 1982: The neural basis of catalepsy in the stick insect *Cuniculina impigra*. 2. The role of the extensor motor neurons and the characteristics of the extensor tibiae muscle. – Biol. Cybern. 46: 1–6
-- & U. WEGNER 1983: Motor output of the denervated thoracic ventral nerve cord in the stick insect *Carausius morosus*. – J. exp. Biol. 105: 127–145
BERTHOLD, G. 1980a: Microtubules in the epidermal cells of *Carausius morosus* (Br.). Their pattern and relation to pigment migration. – J. Insect Physiol. 26: 421–425
-- 1980b: Potassium urate deposition in extracellular spaces of the fat body of *Carausius morosus* (Orthopteroidea: Phasmatidae). – Zool. Jb. Phys. 84: 100–106
-- 1982: Histochemical localization of Mg²⁺-activated ATPases on microtubule bundles in epidermal cells of *Carausius morosus*: Possible significance to pigment migration. – J. Insect Physiol. 28: 137–141
BAYER, R. 1980: Zur Biologie der Indischen Stabheuschrecke *Carausius morosus* Br. (Phasmatodea) bei Zucht und Haltung unter Laborbedingungen. – Beiträge trop. Landwirtschaft. Veterinärmed. 18: 69–75
BIRKET-SMITH, S. J. R. 1981: A wing of Phasmida from the Cretaceous period (Insecta). – Ent. Scand. 12: 245–249
BRÄUNING, P. 1982: Strand receptors with central cell bodies in the proximal leg joints of orthopterous insects. – Cell Tissue Res. 222: 647–654
BULLINI, L. 1981: Nicchia trofica dei fasmidi mediterranei *Clonopsis gallica*, *Bacillus rossius* e *Bacillus atticus* (Cheleoptera, Bacillidae). – Ecologia, atti I Congr. Naz. Soc. Ital. Ecol.: 263–264
-- 1982: Genetic, ecological, and ethological aspects of the speciation process. In: Barigozzi, C. (Ed.) Mechanisms of Speciation, pp 241–264, New York (Alan R. Liss Inc.)
-- 1983: Taxonomic and evolutionary inferences from electrophoretic studies of various animal groups. In: Oxford, G. S. & D. Rollinson (Eds.) Protein Polymorphism: Adaptive and Taxonomic significance, pp 179–192, London, New York etc (Academic Press)

- , NASCETTI, G. & A. P. B. BULLINI 1984: A new stick-insect of hybrid origin: *Bacillus lynceorum* n. sp. (Cheleoptera: Bacillidae). – Atti Acc. Naz. Lincei, Rend. Cl. Sc. Fis. Mat. e Nat. 73: 1–9
- CAPRA, F. & R. POGGI 1980: Sul neotipus di *Bacillus rossius* (Rossi, 1788) (Insecta: Phasmida). – Doriana (Suppl. Ann. Mus. Civ. Storia Naturale “G. Doria”) vol. 5, no. 235: 1–4
- CARLBERG, U. 1980a: Some long-antenna'd specimens of *Extatosoma tiaratum* (MacLeay) (Phasmida) described by W. W. Froggatt, 1905. – Entomol. mon. Mag. 115: 29–30
- 1980b: Number of nymphal instars in *Extatosoma tiaratum* (MacLeay) (Phasmida: Tropidoderinae) with notes on biology. – Entomol. mon. Mag. 116: 59–65
- 1981a: Contribution to the knowledge of Phasmida III. Diapause in the eggs of *Extatosoma tiaratum* (MacLeay). – Ent. Rec. J. Var. 92: 180–181
- 1981b: Defensive behaviour in adult female *Extatosoma tiaratum* (MacLeay) (Phasmida). – Entomol. mon. Mag. 116: 133–138
- 1981c: Nymphal mortality in *Extatosoma tiaratum* (MacLeay) (Phasmida). – Biol. Zbl. 100: 67–69
- 1981d: The reproduction rate of *Extatosoma tiaratum* (MacLeay) (Phasmida). – Biol. Zbl. 100: 71–74
- 1981e: An analysis of the secondary defence reactions in stick insects (Phasmida). – Biol. Zbl. 100: 295–303
- 1981f: Defensive secretion of stick insects. – J. Chem. Ecol. 7: 905–906
- 1981g: Development period of eggs of a *Baculum* species (Phasmida: Phasmatidae). – Entomol. mon. Mag. 117: 31–34
- 1981h: Shape and asymmetry of hatching peaks in Phasmida (Insecta). – Biol. Zbl. 100: 641–645
- 1981i: Spermatophores of *Baculum extradentatus* (Brunner von Wattenwyl), and other Phasmida. – Entomol. mon. Mag. 117: 125–127
- 1981j: Storage of sperms in Phasmida (Insecta). – Zool. Jb. Anat. 106: 568–571
- 1982a: Defensive behaviour in females of the stick insect *Sipylodea sipylus* (Westwood) (Phasmida). – Zool. Anz. 207: 117–180
- 1982b: A gynandromorph specimen of *Extatosoma tiaratum* (MacLeay) (Insecta: Phasmida). – Zool. Anz. 207: 320–322
- 1982c: Postembryonic development in *Sipylodea sipylus* (Westwood) (Insecta: Phasmida). – Zool. Garten N. F. 51: 382–384
- 1982d: Notes on the postembryonic development of Phasmida (Insecta). – Zool. Anz. 208: 74–81
- 1982e: Hatching-time of *Extatosoma tiaratum* (MacLeay). – Entomol. mon. Mag. 117: 199–200
- 1982f: Chitin contents of different development stages of stick insects (Phasmida). – Zool. Jb. Phys. 86: 413–418
- 1982g: Egg production and adult mortality of *Extatosoma tiaratum* (MacLeay) (Insecta: Phasmida). – Zool. Jb. Phys. 86: 527–533
- 1983a: Bibliography of Phasmida (Insecta). I. 1970–1979. – Spixiana 6: 27–43
- 1983b: Vandrande pinnar och vandrande blad – en översikt (Stick- and leaf-insects [Phasmida] – a review.) – Ent. Tidskr. 104: 66–74 (In Swedish with English summary)
- 1983c: Copulation in *Extatosoma tiaratum* (MacLeay) (Insecta: Phasmida). – Zool. Anz. 210: 340–356
- 1983d: Diversity in the genus *Baculum* Saussure (Insecta: Phasmida). – Zool. Jb. Syst. 10: 127–140
- 1983e: An analysis of variations in postembryonic development of Phasmida (Insecta). – Biol. Zbl. 102: 445–450
- 1983f: A review of the different types of egg-laying in the Phasmida in relation to the shape of the eggs and with a discussion on their taxonomic importance (Insecta). – Biol. Zbl. 102: 587–602
- 1983g: External morphological postembryonic development in *Extatosoma tiaratum* (MacLeay) (Insecta: Phasmida). – Zool. Jb. Anat. 110: 365–372
- 1984a: Flight in female *Sipylodea sipylus* (Westwood) (Insecta: Phasmida). – Zool. Jb. Phys. 88: 9–14
- 1984b: Variations in the egg-size of *Extatosoma tiaratum* (MacLeay). (Insecta: Phasmida). – Zool. Anz. 212: 61–67
- 1984c: Survival of first instar nymphs of *Extatosoma tiaratum* (MacLeay) (Insecta: Phasmida). – Zool. Anz. 212: 68–72
- 1984d: Walking velocity vs. temperature in first instar nymphs of *Extatosoma tiaratum* (MacLeay) (Insecta: Phasmida). – Zool. Anz. 212: 223–225
- 1984e: Sizes of eggs and oviposition females of *Extatosoma tiaratum* (MacLeay) (Insecta: Phasmida). – Zool. Anz. 212: 226–228

- 1984f: Quiescent periods around the imaginal ecdysis of *Extatosoma tiaratum* (MacLeay) (Insecta: Phasmida). – Zool. Jb. Anat. 111: 401–407
- 1984g: Oviposition behaviour in the Australian stick insect *Extatosoma tiaratum*. – Experientia 40: 888–889
- 1984h: Hatching rhythms in *Extatosoma tiaratum* (MacLeay) (Insecta: Phasmida). – Zool. Jb. Physiol. 88: 441–446
- 1984i: Non-induced extra moulting in *Extatosoma tiaratum* (MacLeay) (Insecta: Phasmida). – Zool. Jb. Anat. 112: 365–367
- , LINDQVIST, B. A. R. & A.-K. PALMHEDEN 1982: Mineral contents of the egg shells of stick insects (Phasmida). – Zool. Anz. 208: 68–73
- CRUSE, H. 1980a: A quantitative model of walking incorporating central and peripheral influences. I. The control of the individual leg. – Biol. Cybern. 37: 131–136
- 1980b: A quantitative model of walking incorporating central and peripheral influences. II. The connections between the different legs. – Biol. Cybern. 37: 137–144
- 1981: Is the position of the femur-tibia joint under feedback control in the walking stick insect? I. Force measurements. – J. exp. Biol. 92: 87–95
- , DEAN, J. & M. SUILMANN 1984: The contributions of diverse sense organs to the control of leg movement by a walking insect. – J. Comp. Physiol. A 154: 695–705
- & S. EPSTEIN 1982: Peripheral influences on the movement of the legs in a walking insect *Carausius morosus*. – J. exp. Biol. 101: 161–170
- & H.-J. PFLÜGER 1981: Is the position of the femur-tibia joint under feedback control in the walking stick insect? II. Electrophysiological recordings. – J. exp. Biol. 92: 97–107
- & G. SAXLER 1980a: Oscillations of force in the standing legs of a walking insect (*Carausius morosus*). – Biol. Cybern. 36: 159–163
- & -- 1980b: The coordination of force oscillations and of leg movement in a walking insect (*Carausius morosus*). – Biol. Cybern. 36: 165–171
- & J. SCHMITZ 1983: The control system of the femur-tibia joint in the standing leg of a walking stick insect *Carausius morosus*. – J. exp. Biol. 102: 175–185
- DEAN, J. 1984: Control of leg protraction in the stick insect: a targeted movement showing compensation for externally applied forces. – J. Comp. Physiol. A 155: 771–781
- & G. WENDLER 1982: Stick insect walking on a wheel: Perturbations induced by obstruction of leg protraction. – J. Comp. Physiol. 138: 195–207
- & -- 1983: Stick insect locomotion on a walking wheel: Interleg coordination of leg position. – J. exp. Biol. 103: 75–94
- & -- 1984: Stick insect locomotion on a wheel: Patterns of stopping and starting. – J. exp. Biol. 110: 203–216
- * DEBRODT, B. 1980: Untersuchungen über die Innervation des flexor tibiae an *Carausius morosus*. – Diplomarbeit, Universität Kaiserslautern, Kaiserslautern, Federal Republic of Germany (CRUSE, H. & J. SCHMITZ 1983)
- EPSTEIN, S. & D. GRAHAM 1983: Behaviour and motor output of stick insects walking on a slippery surface. I. Forward walking. – J. exp. Biol. 105: 215–229
- FERWERDA, M. A. & L. P. PIJNACKER 1983: Synaptonemal complexes of the endomeiosis in the stick insect *Carausius morosus* Br. – Kew Chromosoma Conference II, 340
- FINLAYSON, L. H., ORCHARD, I. & N. DAY 1983: A factor in the haemolymph of the stick insect that depresses the activity of extraganglionic neurosecretory cells. – J. Comp. Physiol. 152: 283–288
- Forest Commission – Victoria 1980: Annual Report 1979–80: 28
- FOTH, E. & D. GRAHAM 1983a: Influence of loading parallel to the body axis on the walking coordination of an insect. I. Ipsilateral effects. – Biol. Cybern. 47: 17–23
- & -- 1983b: Influence of loading parallel to the body axis on the walking coordination of an insect. II. Contralateral changes. – Biol. Cybern. 48: 149–157
- GÄDE, G. 1980: Further characteristics of adipokinetic and hyperglycaemic factor(s) of stick insect. – J. Insect Physiol. 26: 351–360
- 1981a: Studies on a phosphorylase-activating factor in the corpora cardiaca of stick insects: Characterization and preliminary purification. – Zool. Jb. Phys. 85: 266–277
- 1981b: Activation of fat body glycogen phosphorylase in *Locusta migratoria* by corpus cardiacum extract and synthetic adipokinetic hormone. – J. Insect Physiol. 27: 155–161

- 1984: Adipokinetic and hyperglycaemic factors of different insect species: Separation with high performance liquid chromatography. — *J. Insect Physiol.* 30: 729–736
- & P. LOHR 1982: Restricted specificity of a hyperglycaemic factor from the corpus cardiacum of the stick insect *Carausius morosus*. — *J. Insect Physiol.* 28: 805–811
- GASPERI, G., MALACRIDA, A. & V. SCALI 1983: Variabilità enzimatica in popolazioni Italiane e Nord-Africane del genere *Bacillus* (Insecta Phasmatodea Bacillidae). — *Atti XIII Congr. Naz. It. Ent., Sestriere – Torino*, 469–474
- GIORGI, F. & F. MACCHI 1980: Vitellogenesis in the stick insect *Carausius morosus* I. Specific protein synthesis during ovarian development. — *J. Cell Sci.* 46: 1–16
- & M. MAZZINI 1984: Vitellogenesis in the stick insect *Bacillus rossius* (Rossi) (Insecta Phasmatodea Bacillidae). 2. Ultrastructural observations on developing oocytes. — *Monitore zool. ital. (N. S.)* 18: 259–273
- GODAY, C., BULLINI, A. P. B., NASCETTI, G. & L. BULLINI 1981: Chromosome studies on *Bacillus atticus*, *B. rossius* and their hybrids (Cheleutoptera, Bacillidae). — *Atti Acc. Naz. Lincei Rd. Cl. Fis., Mat. e Nat.* 71: 126–133
- GODDEN, D. H. & D. GRAHAM 1983: “Instant” analysis of movement. — *J. exp. Biol.* 107: 505–508
- & — 1984: A preparation of the stick insect *Carausius morosus* for recording intracellularly from identified neurons during walking. — *Phys. Ent.* 9: 275–286
- GODEKE, J. & L. P. PIJNACKER 1984: Structure of the micropyle in the eggs of the parthenogenetic stick insect *Carausius morosus* Br. (Phasmatodea, Phasmatidae). — *Netherl. J. Zool.* 34: 407–413
- GRAHAM, D. 1981: Walking kinetics of the stick insect using a lowinertia counter-balanced, pair of independent treadwheels. — *Biol. Cybern.* 40: 49–57
- 1983: Insects are both impeded and propelled by their legs during walking. — *J. exp. Biol.* 104: 129–137
- & U. BÄSSLER 1981: Effects of efference sign reversal on motor activity in walking stick insects (*Carausius morosus*). — *J. exp. Biol.* 91: 179–193
- & H. CRUSE 1981: Coordinated walking of stick insects on a mercury surface. — *J. exp. Biol.* 92: 229–241
- & G. WENDLER 1981 a: The reflex behaviour and innervation of the tergo-coxal retractor muscles of the stick insect *Carausius morosus*. — *J. Comp. Physiol.* 143: 81–91
- & — 1981 b: Motor output to the protractor and retractor coxae muscles in stick insect walking on a tread wheel. — *Phys. Ent.* 6: 161–174
- GREVEN, H. & H. ROBENEK 1982: Filipin-induced lesions in plasma membranes of the malpighian tubules in *Carausius morosus* Br. (Phasmatodea, Phasmatidae). — *J. Submicrosc. Cytol.* 14: 123–130
- HAGET, A., RESSOUCHES, A. & J. ROGUEDA 1981: Chronological and ultrastructural observations on the activities of the embryonic corpus allatum in *Carausius morosus* Br. (Phasmida: Lonchodidae). — *Int. J. Insect Morphol. & Embryol.* 10: 65–81
- HANZELY, L. & D. A. SCHJEIDE 1984: Oocyte maturation in the stick insect (*Carausius morosus*): ultrastructural and biochemical aspects. — *Cytobios.* 41: 135–150
- HARZ, K. 1983: Zur Verbreitung von *Bacillus atticus* Br. (Phasmoptera). — *Articulata* 2: 40
- HAUSLEITHNER, B. 1983: Kritische Bemerkungen zu *Phyllium bioculatum* Gray und *Ph. pulchrifolium* Serville, zwei Vertreter der „Wandelnden Blätter“ (Phasmatodea: Phyllidae). — *Ent. Z.* 93: 278–280
- 1984 a: Eine neue *Phyllium*-Art aus Malaysia (Phasmatodea: Phyllidae). — *Ent. Z.* 94: 39–43
- 1984 b: Zur Systematik der Gattung *Lonchodes* Gray und die Erstbeschreibung des Weibchens von *L. haematomus* Westwood (Phasmatodea). — *Ent. Z.* 94: 157–160
- 1984 c: Eier der Gattung *Phyllium* (Phasmatoptera: Phyllidae). Ein Beitrag zur Systematik der „Wandelnden Blätter“. — *Ent. Z.* 94: 241–245
- HILL, D. S., HORE, P. M. & I. W. B. THORNTON 1982: Insects of Hong Kong. Hong Kong (Hong Kong Univ. Press), pp. 41, 49, 120–121 deals with Phasmida
- HINSULL, S. M., EVANS, G. S., BELLAMY, D. & E. L. HEAD 1983: Effects of negative air ions on growth and regeneration in the Indian stick insect. — *Int. J. Biometeor.* 27: 165–171
- HINTON, H. E. 1981: Biology of Insect Eggs, vol. 1–3. Oxford, New York etc. (Pergamon Press), pp 533–545 deals specific with Phasmida: pp 243–249, 333–333 (= pl. 15–17) general data but includes Phasmida
- HOFMANN, T. & U. BÄSSLER 1982: Anatomy and physiology of trochanteral campaniform sensilla in the stick insect, *Cuniculina impigra*. — *Phys. Ent.* 7: 413–426
- HONOMICHL, K. 1984: Feinstruktur einer Nerv-Muskel-Synapse bei *Carausius* (Insecta, Phasmatodea). — *Zool. Jb. Anat.* 112: 85–93

- JAROS, P. P. & G. GADE 1982: Evidence for a crustacean hyperglycemic hormone-like molecule in the nervous system of the stick insect, *Carausius morosus*. — *Cell. Tissue Res.* **227**: 555–562
- JORDAN, T. W., CHANG, C. K. & J. N. SMITH 1980: Factors affecting the metabolism, distribution and excretion of aromatic acids in *Periplaneta americana* and *Acanthoxyla intermedia*. — *Insect Biochem.* **10**: 265–271
- KADIRI, Z. & J.-P. LOUVET 1982: Ultrastructural study of midgut embryonic cytodifferentiation in the Phasmid *Clitumnus extradentatus* Br. — *J. Morphol.* **172**: 323–334
- KAMATH, M. K., LAL, S. N. & P. PRASAD 1982: Coconut pests. — Ecological studies on coconut stick-insect, *Graeffea crouanii* (Le Guillou) (Phasmatodea: Phasmatidae). — *Ann. Res. Rept.* 1981: Dept. Agric. Fiji; 72–74
- , — & D. N. SINGH 1981: Coconut pests. — Coconut stick-insect, *Graeffea crouanii* (Le Guillou) (Phasmatodea: Phasmatidae). — *Ann. Res. Rept.* 1979, Dept. Agric. Fiji; 76–77
- , SINGH, S. R., LAL, S. N. & P. PRASAD 1981a: Coconut pests. — Chemical control of coconut stick insect *Graeffea crouanii* (Le Guillou) (Phasmatodea: Phasmatidae). — *Ann. Res. Rept.* 1980, Dept. Agric. Fiji; 58
- , —, — & — 1981b: Coconut pests. — Ecological studies on coconut stick insect *Graeffea crouanii* (Le Guillou). — *Ann. Res. Rept.* 1980, Dept. Agric. Fiji; 58–59
- KAYSER, H. 1981: Carotenoids in the stick insect, *Ectatosoma tiaratum*. Isolation of β , ϵ -caroten-2-ol and β , ϵ -caroten-2-one. — *Z. Naturforsch.* **36c**: 755–764
- 1982a: Caretenoid biogenesis in the stick insect, *Carausius morosus*, during a larval instar. — *Z. Naturforsch.* **37c**: 13–18
- 1982b: Carotenoids in stick insects (Phasmids). A quantitative comparison of six species at major developmental stages. — *Comp. Biochem. Physiol.* **72 B**: 427–432
- 1982c: Caretenoids in insects. In: Britton, G. & T. W. Goodwin (Eds.) I.U.P.A.C. Caretenoid Chemistry and Biochemistry, pp. 195–210, Oxford & New York (Pergamon Press)
- KEMMERLING, S. & D. VARJÚ 1981: Regulation of the body-substrate-distance in the stick insect: Responses to sinusoidal stimulation. — *Biol. Cybern.* **39**: 129–137
- & — 1982: Regulation of the body-substrate-distance in the stick insect: Step responses and modelling the control system. — *Biol. Cybern.* **44**: 59–66
- KEVAN, D. K. MCE. 1980: The Orthopteroid insects of the Bermudas. — *Mem. Lyman Ent. Mus. Res. Lab.* **8** (Spec. Publ. 16): i–vi, 1–182 [The following pages deal with Phasmida: 2–3, 116–117, 148–149, 153]
- 1982: Phasmatoptera. In: Parker, S. P. (Ed.) *Synopsis and Classification of Living Organisms*, pp. 379–383, pl. 116, New York etc. (McGraw-Hill)
- 1984: Corrigenda to *Mem. Lyman Ent. Mus. Res. Lab.* 13 vol. I & II. — *Lyman Ent. Mus. Res. Lab.*; pp 1–8
- KITTMANN, R. 1981: Habituation der Verstärkung des Femur-Tibia-Regelkreises der Stabheuschrecke (*Carausius morosus*). — *Verh. Dtsch. Zool. Ges.* **1981**: 243
- KRISTENSEN, N. P. 1981: Phylogeny of insect orders. — *Ann. Rev. Entomol.* **26**: 135–157
- LAU, D. 1980: Auswirkung niedriger Temperaturen auf den Schlupf der Eier der australischen Gespenstschrecke, *Ectatosoma tiaratum* MacLeay. — *Milu, Berlin* **5**: 37–48
- LODOS, N. 1983: Türkiye Entomolojisi (genel, uygulamali ve faunistik). Cilt I (Genisletilmis II. Basim), pp 294–299 deals with Phasmida. Ege Universitesi Ziraat Fakültesi Yayınlar No. 282 (Izmir)
- MARSHALL, J. A. 1983: The orthopteroid insects described by Linnaeus, with notes on the Linnaean collection. — *Zool. J. Linn. Soc.* **78**: 375–396
- MAZZINI, M. & F. GIORGI 1984: Vitellogenesis in the stick insect *Bacillus rossius* (Rossi) (Insecta Phasmatodea Bacillidae). 1. Ultrastructural observations on ovarian follicle cells. — *Monitore zool. ital.* (N. S.) **18**: 239–257
- , NASCETTI, G. & L. BULLINI 1982: The egg of the stick-insect *Bacillus atticus caprai* Nascetti & Bullini: A scanning electron microscope study (Cheleutoptera Bacillidae). — *Monitore zool. ital.* (N. S.) **16**: 93–103
- , — & — 1984: A scanning electron microscope study on the egg of a hybrid stick-insect (Cheleutoptera, Bacillidae). — *Int. J. Invert. Reprod. Develop.* **7**: 43–49
- & V. SCALI 1980: Ultrastructure and amino acid analysis of the eggs of the stick insects, *Lonchodes pterodactylus* Gray and *Carausius morosus* Br. (Phasmatodea: Heteronemiidae). — *Int. J. Insect Morphol. & Embryol.* **9**: 369–382
- & — 1983a: Le uova di quattro specie di Ramulini (Phasmatodea, Heteronemiidae) della Somali al microscopio elettronico a scansione. — *Atti XIII Congr. Nat. It. Ent., Sestriere – Torino*: 89–96
- & — 1983b: A scanning electron microscope study of the eggs of three stick insects species of *Ramulus* (Phasmatodea, Heteronemiidae) from Somalia. — *Monitore zool. ital.* (N. S.) **17**: 89–103
- MEDLER, J. T. 1980: Insects of Nigeria – Check list and bibliography. — *Mem. Amer. Ent. Inst.* **30**: i–vii, 1–919 [p 44 deals with Phasmida]

- MESNIER, M. 1980: Study of oöcyte growth within the ovariole in a stick-insect, *Clitumnus extradentatus*. — *J. Insect Physiol.* **26**: 59–65
- 1984: Interactions entre les ovocytes chez le Phasme *Clitumnus extradentatus* (Chel.). — *Bull. Soc. ent. Fr.* **89**: 867–875
- MESNIER-SABIN, M. 1980: Étude anatomique de la croissance des ovocytes terminaux au sein d'un ovariole chez le Phasme *Clitumnus extradentatus*. — *Bull. Soc. Zool. Fr.* **105**: 519–529
- NASCETTI, G. & L. BULLINI 1980: Differenziamento genetico e speciazione in fasmidi dei generi *Bacillus* e *Clonopsis* (Cheleutoptera, Bacillidae). — *Atti XII Congr. Naz. Ital. Entomol.*, Roma, vol. II: 215–223
- & — 1982a: A new Phasmid from Italy: *Bacillus atticus caprai* (n. subsp.) (Cheleutoptera, Bacillidae). — *Fragm. Entomol.* **16**: 143–159
- & — 1982b: *Bacillus grandii* n. sp. and *B. whitei* n. sp.: two new stick insects from Sicily (Cheleutoptera, Bacillidae). — *Boll. Inst. Ent Univ. Bologna* **36**: 245–258
- , BULLINI, A. P. B. & L. BULLINI 1982: Ricerche elettroforetiche e cariologiche su un fasmide partenogenetico di origine ibrida, *Bacillus whitei* e sui suoi progenitori bisessuati, *B. rossius* e *B. grandii*. — *Boll. Zool.* **49**: 133
- , — & — 1983: Speciazione per ibridazione nei fasmidi del bacino del Mediterraneo (Cheleutoptera: Bacillidae). — *Atti XIII Congr. Naz. It. Ent.*, Sestriere — Torino: 475–478
- PASSERIN D'ENTREVÈS, P. 1981: Cataloghi. IV — Collezioni Ortoterologiche del Museo di Zoologia dell'Università di Torino. — Museo Regionale di Scienze Naturali, Torino: 1–127
- PIJNACKER, L. P. & M. A. FERWERDA 1980: Sex chromosome and origin of males and sex mosaics of the parthenogenetic stick insect *Carausius morosus* Br. — *Chromosoma* **79**: 105–114
- & — 1982: Normal and BrdC-substituted chromosomes during spermatogenesis with an endomeiotic chromosome reduplication in *Carausius morosus* Br. — *Chromosoma* **85**: 67–82
- & J. GODEKE 1984: Development of ovarian follicle cells of the stick insect, *Carausius morosus* Br. (Phasmatodea), in relation to their function. — *Int. J. Insect Morphol. & Embryol.* **13**: 21–28
- & J. HARBOTT 1980: Structural heterozygosity and aneuploidy in the parthenogenetic stick insect *Carausius morosus* Br. (Phasmatodea: Phasmatidae). — *Chromosoma* **76**: 165–174.
- RAABE, M. 1982: *Insect Neurohormones*. New York & London (Plenum)
- 1983: Le controle neuroendocrine des changements de coloration chez les insectes: adaptation morphologiques et physiologique. — *Bull. Soc. Zool. Fr.* **108**: 185–195
- 1984: Endocriologie de la reproduction (ponte exceptée) chez les femelles d'Insectes. — *Bull. Soc. ent. Fr.* **89**: 840–854
- RENTZ, D. C. F. & D. B. WEISSMAN 1981: Faunal affinities, systematics, and bionomics of the Orthoptera of the California Channel islands. — *Univ. Calif. Publ., Ent.* **94**: i–xi, 1–240
- ROBERT, A., GRILLOT, J. P., GUILLEMINOT, J. & M. RAABE 1984: Experimental and ultrastructural study of the control of ovulation and marturition in the tsetse fly *Glossina fuscipes* (Diptera). — *J. Insect Physiol.* **30**: 671–684
- ROWLEY, A. F. & N. A. RATCLIFFE 1980: Insect erythrocyte agglutinins. In vitro opsonization experiments with *Clitumnus extradentatus* and *Periplaneta americana* haemocytes. — *Immunology* **40**: 483–492
- RUNHAAR, G. 1982: Neuroanatomie und Neurophysiologie des Abdomens der Stabheuschrecke (*Carausius morosus* Br.). — Doktor. Diss., Universität zu Köln, Köln, Federal Republic of Germany
- SCALI, V. 1982a: Evolutionary biology and speciation of the stick insect *Bacillus rossius* (Insecta Phasmatodea). In: Barigozzi, C. (Ed.) *Mechanisms of Speciation*, pp 393–410, New York (Alan R. Liss Inc.)
- 1982b: Gli insetti stecco italiani. — *Natura e montagna* **1**: 41–52
- & M. MAZZINI 1981: The eggs of stick insects, *Sipylodea sipylus* (Westwood) and *Orxines macklotti* de Haan (Phasmatodea, Heteronemiidae): A scanning electron microscopic study. — *Int. J. Invert. Reprod.* **4**: 25–38
- & — 1982: Interpopulation differences in egg sculpturing of the stick insect, *Clonopsis gallica* (Charp.) (Phasmatodea: Bacillidae). — *Int. J. Insect Morphol. & Embryol.* **11**: 189–195
- & — 1983: Egg capsule morphology of the stick insect *Burria longixipha* Brunner (Phasmatodea Heteronemiidae) from Somaliland. — *Monitore zool. ital. (N. S.)* **17**: 303–312
- , MONTANELLI, E., LANFRANCHI, A. & C. BEDINI 1980: Nuclear alterations in a baculovirus-like infection of midgut epithelial cells in the stick insect, *Bacillus rossius*. — *J. Invert. Path.* **35**: 109–118
- , PELLICCIARI, C., MONTANELLI, E. & G. BERNOCCHI 1980a: The Feulgen hydrolysis kinetics in the midgut cell classes of the stick insect *Bacillus rossius*: A computer analysis. — *Bas. Appl. Histochem.* **24**: 135–144
- , —, — & — 1980b: Nuclear classes and Feulgen-DNA contents of midgut epithelial cells in a Phasmid (Insecta Cheleutoptera). — *Biol. Cell.* **37**: 5–12

- , TOGNATO, G. & O. MARESCALCHI 1983: Dati ootassonomici e cariologici di entità Italiane e Nord Africane di *Bacillus rossius* (Insecta Phasmatodea). — Atti XIII Congr. Naz. It. Ent., Sestriere — Torino: 105–112
- SCHINDLER, G. 1981: Untersuchungen zur Regeneration bei der indischen Stabheuschrecke *Carausius morosus* Br. (Insecta: Phasmida). — Braunschw. Naturk. Schr. 13: 249–253
- SCHJEIDE, O. A. & L. HANZELY 1983: Resorption of microvilli by the maturing oocyte of the stick insect (*Carausius morosus*). — Cytobios. 38: 167–176
- * SCHMITZ, J. 1980: Der Kniesehenreflex“ der Stabheuschrecke *Carausius morosus* (Br.): Untersuchungen am stehenden Bein des laufenden Tieres. — Examensarbeit, Universität zu Kaiserslautern, Kaiserslautern, Federal Republic of Germany [CRUSE, H. & J. SCHMITZ 1983]
- SEITZ, K.-A., WOLF-NEIS, R. & P. KOCH 1980: Histochemische und feinstrukturelle Untersuchungen zur Vitellogenese von *Carausius morosus* Br. (Insecta, Phasmatodea). — Zool. Jb. Anat. 104: 1–24
- SELICK, J. T. C. 1980: A study of the eggs of the insect order Phasmida with particular reference to establishing the taxonomic value of egg structure in this group. — Ph. D. thesis, University of London, London, England
- SIVINSKI, J. 1980: The effects of mating on predation in the stick insect *Diaperomera veliei* Walsh (Phasmatodea: Heteronemiidae). — Ann. Entomol. Soc. Am. 73: 553–556
- 1983: Predation and sperm competition in the evolution of coupling durations, particularly in the stick insect *Diaperomera veliei*. In: Gwynne, D. T. & G. K. Morris (Eds.) Orthopteran Mating Systems: Sexual Competition in a Diverse Group of Insects, pp 147–162, Boulder, Colorado (Westview)
- SOLDÁN, T. 1982: Changes in eggs of *Dixippus morosus* (Dictyoptera, Phasmida) caused by a microsporidian infection of the ovaries. — Acta ent. bohemoslov. 79: 181–187
- STRATAKIS, E. 1980: Tryptophan metabolism during development of the stick insect, *Carausius morosus* Br. Tissue distribution and interrelationships of metabolites of the kynurenine pathway. — J. Comp. Physiol. 137: 123–130
- *SULMANN, M. 1981: Der Einfluß der Sinnesborsten des Mittelbeines auf die vordere Extremitätstellung des ipsilateralen Hinterbeines der Stabheuschrecke *Carausius morosus*. — Examensarbeit, Universität zu Kaiserslautern, Kaiserslautern, Federal Republic of Germany [CRUSE, H. et al. 1984]
- THOMAS, A. & D. GUILLAUMIN 1981: Un aspect inattendu de la fonction protectrice du chorion: L'oeuf de *Carausius morosus* (Insecte Chéleutoptère) reste viable après observation au microscope électronique à balayage. — Bull. Soc. Zool. Fr. 106: 483–487
- & M. MESNIER 1984: Déterminisme de la ponte chez les Insectes. — Bull. Soc. ent. Fr. 89: 855–865
- THOMAS, D. & J. GOURANTON 1980: Globular intranuclear inclusions in the midgut cells of *Carausius morosus*: Ultrastructure, composition and kinetics of growth. — J. Ultrastruct. Res. 70: 137–152
- TICHY, H. & R. LOFTUS 1983: Relative excitability of antennal olfactory receptors in the stick insect, *Carausius morosus* L.: in search of a simple, concentration-independent odor-coding parameter. — J. Comp. Physiol. 152: 459–473
- VANSCHUYTBROECK, P. & J. COOLS 1981: Catalogue et liste du matériel typique des Phasmatodea conserve dans les collections entomologiques de l'Institut Royal des Sciences Naturelles de Belgique — Orthopteroidea: Phasmatodea Jacobson & Bianchi, 1902 (= Cheleutoptera Crampton, 1915). — Bull. Inst. r. Sci. nat. Belg., Bruxelles 53 (23): 1–26
- VICKERY, V. R. 1983: Catalogue of Australian stick insects (Phasmida, Phasmatodea, Phasmatoptera, or Cheleutoptera). — C.S.I.R.O. Aust. Div. Entomol. Tech. Pap. 20: 1–19
- & D. K. McE. KEVAN 1983 a: A monograph of the Orthopteroid insects of Canada and adjacent regions. — Lyman Ent. Mus. Res. Lab. Mem. 13, vol. I: iv–xxii, 1–620, pl. I–VIII [pp 65, 75–80, 85, 92, 289–303, pl. III deals with Phasmida]
- & — 1983 b: A monograph of the Orthopteroid insects of Canada and adjacent regions. — Lyman Ent. Mus. Res. Lab. Mem. 13, vol. II: i–iv, 681–1462, pl IX–XII
- VISCUSO, R. & G. LONGO 1983 a: Morphology and fine structure of the chorion of the eggs of *Anchiale maculata* Oliver and *Eurycnema herculeana* Brunner (Phasmatodea, Phasmatidae). — Arch. Biol. (Bruxelles) 94: 413–439
- & — 1983 b: The egg of leaf insect, *Phyllium pulchrifolium* Serv. (Phasmatodea: Phyllidae): Morphology and ultrastructure. — Arch. Biol. (Bruxelles) 94: 441–457
- VISHNYKOVA, V. N. 1980: Otryad Phasmida Leach, 1815. — Trudy paleont. Inst. 175: 171–173 [In Russian]
- WALTHER, C. 1980: Small motor axons in Orthopteran insects. A reinvestigation of the innervation of the femoral retractor unguis muscle in a stick insect and two species of locust. — J. exp. Biol. 87: 99–119

3. Systematic index

- Acanthoxyla intermedia* Salmon: JORDAN et al. 1980
Acrophylla wuelfingi Redtenbacher: GÄDE 1984, KAYSER 1982b, 1982c
Anchiale maculata Olivier: VISCUSO & LONGO 1983a
Anisomorpha buprestoides (Houttuyn in Stoll): CARLBERG 1981f, KEVAN 1982
Bacillus spp.: BULLINI 1983, GASPERI et al. 1983, NASCETTI & BULLINI 1980, SCALI 1982b
B. atticus Brunner von Wattenwyl: BULLINI 1981, 1982, GODAY et al. 1981, HARZ 1983, MAZZINI et al. 1982, 1984, NASCETTI & BULLINI 1982a
B. gradii Nascetti & Bullini: NASCETTI & BULLINI 1982b, NASCETTI et al. 1982
B. lynceorum Bullini et al.: BULLINI et al. 1984, NASCETTI et al. 1983
B. rossius (Rossi): BACCETTI 1982, BACCETTI et al. 1984, BACCETTI et al. 1984, BACCETTI & DALLAI 1980, BULLINI 1981, 1982, CAPRA & POGGI 1980, CARLBERG et al. 1982, GÄDE 1984, GIORGI & MAZZINI 1984, GODAY et al. 1981, KAYSER 1982b, 1982c, MAZZINI & GIORGI 1984, MAZZINI et al. 1984, NASCETTI et al. 1982, SCALI 1982a, SCALI et al. 1980, SCALI et al. 1980a, 1980b, 1983
B. whitei Nascetti & Bullini: NASCETTI & BULLINI 1982b, NASCETTI et al. 1983
Baculum spp.: CARLBERG 1983d
B. extradentatum (Brunner von Wattenwyl): CARLBERG 1981i, KADIRI & LOUVET 1982, MESNIER 1980, 1984, MESNIER-SABIN 1980, ROBERT et al. 1984, ROWLEY & RATCLIFFE 1980
B. impigra (Brunner von Wattenwyl): BÄSSLER 1983a, 1983b, 1984a, BÄSSLER & FOTH 1982, BÄSSLER et al. 1982, GÄDE 1980, 1981a, 1984, HOFMANN & BÄSSLER 1982
Baculum sp. 1 (sensu Carlberg): CARLBERG 1981g, 1981h, CARLBERG et al. 1982
Baculum sp. 2 (sensu Carlberg): CARLBERG 1981j, CARLBERG et al. 1982
Burria longixipha Brunner von Wattenwyl: SCALI & MAZZINI 1983
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C. gallica (Charpentier): BULLINI 1981, SCALI & MAZZINI 1982
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Ctenomorphodes brievius Gray: KAYSER 1982b, 1982c
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D. veliei Walsh: SIVINSKI 1980, 1983
Didymuria violescens (Leach): Forest Commission, Victoria 1980
Entoria sp.: HILL et al. 1982
Extatosoma tiaratum (MacLeay): BÄSSLER 1983a, BRÄUNIG 1982, CARLBERG 1980a, 1980b, 1981a, 1981b, 1981c, 1981d, 1981e, 1982b, 1982d, 1982e, 1982f, 1982g, 1983c, 1983e, 1983g, 1984b, 1984c, 1984d, 1984e, 1984f, 1984g, 1984h, 1984i, CARLBERG et al. 1982, GÄDE 1984, KAYSER 1981, 1982b, 1982c, LAU 1980
Eurycantha (?) *goliath* (?): GÄDE 1984
Eurycnema herculeana Brunner von Wattenwyl: VISCUSO & LONGO 1983a
Graeffea crouanii (Le Guillou): CARLBERG 1981f, KAMATH et al. 1982, et al. 1981, et al. 1981a, 1981b
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Leptynia spp.: NASCETTI et al. 1983
Lonchodes spp.: HAUSLEITHNER 1984b
L. pterydactylus Gray: MAZZINI & SCALI 1980

Orxines macklotti de Haan: SCALI & MAZZINI 1981

Parabacillus hesperus Hebard: RENTZ & WEISMANN 1981

Phyllium spp.: HAUSLEITHNER 1983, 1984 a, 1984 c

P. pulchrifolium Audinet-Serville: VISCUSO & LONGO 1983 b

Pseudosermyle catalinae Rentz & Weismann: RENTZ & WEISMANN 1981

P. straminea (Scudder): RENTZ & WEISMANN 1981

Ramulus spp.: MAZZINI & SCALI 1983 a, 1983 b

R. aestuans (Saussure): MEDLER 1980

Sipyloidea sipylus (Westwood): CARLBERG 1981 e, 1982 a, 1982 c, 1982 d, 1982 f, 1984 a, CARLBERG et al. 1982, GADE 1984, KAYSER 1982 b, 1982 c, SCALI & MAZZINI 1981

Timema chumash Hebard: RENTZ & WEISMANN 1981

General and/or multispecies works: ALBERTO QUARTAU 1984 a, 1984 b, Amateur Entomologist's Society 1980, CARLBERG 1983 a, 1983 b, 1983 f, HINTON 1981, KEVAN 1982, 1984, KRISTENSEN 1981, LODOS 1983, MARSHALL 1983, PASSERIN D'ENTREVÈS 1981, RAABE 1982, SELICK 1980, VANSCHUYTBROECK & COOLS 1981, VICKERY 1983, VICKERY & KEVAN 1983 a, 1983 b, VISHNYKOVA 1980, WOOTTON 1981

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