

Publications by Bert Hölldobler

- 1 1960 B. Hölldobler
Über die Ameisenfauna in Finnland-Lappland
Waldhygiene **3**:229-238

- 2 1961 B. Hölldobler
Temperaturunabhängige rhythmische Erscheinungen bei
Rossameisenkolonien (*Camponotus ligniperda* LATR. und
Camponotus herculeanus L.) (Hym. Formicidae.)
Insectes Sociaux **8**:13-22

- 3 1962 B. Hölldobler
Zur Frage der Oligogynie bei *Camponotus ligniperda*
LATR. und *Camponotus herculeanus* L. (Hym. Formicidae).
Z. ang. Entomologie **49**:337-352

- 4 1962 B. Hölldobler
Über die forstliche Bedeutung der Rossameisen
Waldhygiene **4**:228-250

- 5 1964 B. Hölldobler
Untersuchungen zum Verhalten der Ameisenmännchen
während der imaginalen Lebenszeit
Experientia **20**:329

- 6 1964 W. Kloft, B. Hölldobler
Untersuchungen zur forstlichen Bedeutung der holzer-
störenden Rossameisen unter Verwendung der Tracer-
Methode
Anz. f. Schädlingkunde **37**:163-169

- 7 1964 I. Graf, B. Hölldobler
Untersuchungen zur Frage der Holzverwertung als Nahrung bei
holzerstörenden Rossameisen (*Camponotus ligniperda* LATR. und
Camponotus herculeanus L.) unter Berücksichtigung der Cellulase Aktivität
Z. Angew. Entomol. **55**:77-80

- 8 1965 W. Kloft, B. Hölldobler, A. Haisch
Traceruntersuchungen zur Abgrenzung von Nestarealen
holzerstörender Rossameisen (*Camponotus*
herculeanus L. und *C. ligniperda*).
Ent. exp. & appl. **8**:20-26

- 9 1965 B. Hölldobler, U. Maschwitz
Der Hochzeitsschwarm der Rossameise *Camponotus*
herculeanus L. (Hym. Formicidae).
Z. Vergl. Physiol. **50**:551-568

- 10 1965 B. Hölldobler
Das soziale Verhalten der Ameisenmännchen und seine
Bedeutung für die Organisation der Ameisenstaaten
Dissertation Würzburg, pp. 122

- 11 1965 B. Hölldobler, U. Maschwitz
Die soziale Funktion der Mandibeldrüsen der Rossameisenmännchen (*Camponotus herculeanus* L.) beim Hochzeitsschwarm. Verhandlg. der Deutschen Zool. Ges. Jena, 391-393
- 12 1966 B. Hölldobler
Futterverteilung durch Männchen im Ameisenstaat
Z. f. vergl. Physiol. **52**:430-455
- 13 1967 B. Hölldobler
Zur Physiologie der Gast-Wirt-Beziehung (Myrmecophilie bei Ameisen. I. Das Gastverhältnis der *Atemeles*- und *Lomechusa*- Larven (Col. Staphylinidae) zu *Formica* (Hym. Formicidae).
Z. vergl. Physiol. **56**:1-21
- 14 1967 B. Hölldobler
Verhaltensphysiologische Untersuchungen zur Myrmecophilie einiger Staphylinidenlarven
Zool. Anz. Verhandlg. Zool. Ges. Heidelberg, 428-434
- 15 1968 B. Hölldobler
Der Glanzkäfer als "Wegelagerer" an Ameisenstraßen
Naturwissenschaften **55**:397
- 16 1968 B. Hölldobler
Physiology of guest-host-relations in ant colonies
Internat. Congr. of Entomology Moskau, no reprints
- 17 1969 B. Hölldobler
Orientierungsmechanismen des Ameisengastes *Atemeles* (Coleoptera, Staphylinidae) bei der Wirtssuche
Zool. Anz. Suppl., Verh. Zool. Ges. **33**:580-585
- 18 1969 B. Hölldobler
Host finding by odor in the Myrmecophilic beetle *Atemels pubicollis* Bris. (Staphylinidae).
Science **166**:757-758
- 19 1970 U. Maschwitz, B. Hölldobler
Der Kartonnestbau bei *Lasius fuliginosus* Latr. (Hym. Formicidae)
Z. vergl. Physiol. **66**:176-189
- 20 1970 B. Hölldobler
Zur Physiologie der Gast-Wirt-Beziehungen (Myrmecophilie) bei Ameisen. II. Das Gastverhältnis des imaginalen *Atemeles pubicollis* Bris. (Col. Staphylinidae) zu *Myrmica* und *Formica* (Hym. Formicidae).
Z. vergl. Physiol. **66**:215-250
- 21 1970 B. Hölldobler
Chemische Verständigung im Insektenstaat
Umschau 70, **21**:663-669

- 22 1970 B. Hölldobler
Steatoda fulva (Theridiidae) a Spider that feeds on
harvester ants
Psyche **77**:202-208
- 23 1971 B. Hölldobler
Homing in the harvester ant *Pogonomyrmex badius*
Science **171**:1149-1151
- 24 1971 B. Hölldobler
Communication between ants and their guests
Scientific American, 86-93
- 25 1971 B. Hölldobler
Sex pheromone in the ant *Xenomyrmex floridanus*
J. Insect. Physiol. **17**:1497-1499
- 26 1971 B. Hölldobler
Recruitment behavior in *Camponotus socius*
(Hym. Formicidae)
Z. vergl. Physiol. **75**:123-142
- 27 1970 B. Hölldobler, E.O. Wilson
Recruitment trails in the harvester ant *Pogonomyrmex*
badius
Psyche **77**:385-399
- 28 1972 B. Hölldobler
Verhaltensphysiologische Adaptationen an ökologischen
Nischen in Ameisennestern. (Behavioral adaptations of
beetles to ecological niches in ant colonies).
Verhandlungsbericht der Deutsch. Zool. Ges., 65. Jahresvers.,
137-143
- 29 1973 B. Hölldobler, M. Wüst
Ein Sexualpheromon bei der Pharaoameise *Monomorium*
pharaonis (L.)
Z. Tierpsychol. **32**:1-9
- 30 1973 F.E. Regnier, M. Nieh, B. Hölldobler
The volatile Dufour's gland components of the harvester ants
Pogonomyrmex rugosus and *P. barbatus*
J. Insect Physiol. **19**:981-992
- 31 1973 B. Hölldobler
Chemische Strategie beim Nahrungserwerb der Diebsameise
(*Solenopsis fugax* LATR.) und der Pharaoameisen
(*Monomorium pharaonis* L.)
Oecologia (Berl.) **11**:371-380
- 32 1973 B. Hölldobler
Formica sanguinea (Formicidae) Futterbetteln
Film E 2013, Encyclopaedia Cinematographica, Göttingen, 3-11

- 33 1973 B. Hölldobler
Amphotus marginata (Nitidulidae) Futterbetteln bei
Lasius fuliginosus (Formicidae)
Film E 2014, Encyclopaedia Cinematographica, Göttingen, 3-5
- 34 1973 B. Hölldobler, M. Möglich, U. Maschwitz
Bothroponera tesserinoda (Formicidae) Tandemlauf beim
Nestumzug
Film E 2040, Encyclopaedia Cinematographica, Göttingen, 3-14
- 35 1973 B. Hölldobler
Zur Ethologie der chemischen Verständigung bei Ameisen
Nova Acta Leopoldina **37**:259-292
- 36 1974 B. Hölldobler, M. Möglich, U. Maschwitz
Communication by tandem running in the ant
Camponotus sericeus
J. Comp. Physiol. **90**:105-127
- 37 1974 M. Möglich, B. Hölldobler
Social carrying behavior and division of labor during nest
moving in ants
Psyche **81**:219-236
- 38 1974 B. Hölldobler
Chemische Verständigung bei sozialen Insekten
Grzimeks Tierleben, Ergänzungsband Verhaltensforschung
32:486-494
- 39 1974 B. Hölldobler
Home range orientation and territoriality in harvesting ants
Proc. Nat. Acad. Sci. USA, **71**:3274-3277
- 40 1974 M. Möglich, B. Hölldobler, U. Maschwitz
Camponotus sericeus (Formicidae) Tandemlauf beim Nestumzug
Film E 2039, Encyclopaedia Cinematographica, Göttingen, 3-18
- 41 1974 M. Möglich, U. Maschwitz, B. Hölldobler
Tandem calling: a new kind of signal in ant communication
Science **186**:1046-1047
- 42 1974 U. Maschwitz, B. Hölldobler, M. Möglich
Tandemlaufen als Rekrutierungsverhalten bei *Bothroponera*
tesserinoda FOREL (Formicidae: Ponerinae)
Z. Tierpsychol. **35**:113-123
- 43 1975 M. Möglich, B. Hölldobler
Communication and orientation during foraging and emigration in the
ant *Formica fusca*
J. Comp. Physiol. **101**:275-288
- 44 1976 B. Hölldobler
Recruitment behavior, home range orientation and
territoriality in harvester ants, *Pogonomyrmex*
Behav. Ecol. Sociobiol. **1**:3-44

- 45 1976 B. Hölldobler
Tournaments and slavery in a desert ant
Science **192**:912-914
- 46 1976 B. Hölldobler, R. Stanton, H. Engel
A new exocrine gland in *Novomessor* (Hymenoptera:
Formicidae) and its possible significance as a taxonomic
character
Psyche **83**:32-41
- 47 1977 B. Hölldobler, E.O. Wilson
The number of queens: an important trait in ant evolution
Naturwissenschaften **64**:8-15
- 48 1976 B. Hölldobler
The behavioral ecology of mating in harvester ants
(Hymenoptera: Formicidae: *Pogonomyrmex*)
Behav. Ecol. Sociobiol. **1**:405-423
- 49 1977 B. Hölldobler, C.P. Haskins
Sexual calling behavior in primitive ants
Science **195**:793-794
- 50 1977 B. Hölldobler, E.O. Wilson
Weaver ants: social establishment and maintenance
of territory
Science **195**:900-902
- 51 1976 B. Hölldobler
Chemische Verständigung in Ameisenstaaten
(Zusammenfassender Bericht).
Berichte der Physikalisch-Medizinischen Gesellschaft
Würzburg, 1-7
- 52 1977 B. Hölldobler, E.O. Wilson
Colony-specific territorial pheromone in the African
weaver ant *Oecophylla longinoda* (LATREILLE)
Proc. Nat. Acad. Sci. USA **74**:2072-2075
- 53 1977 H. Markl, B. Hölldobler, T. Hölldobler
Mating behavior and sound production in harvester ants
(*Pogonomyrmex*, Formicidae)
Insectes Sociaux **24**:191-212
- 54 1977 B. Hölldobler, E.O. Wilson
Weaver ants
Scientific American **237**:146-154
- 55 1977 B. Hölldobler
Communication in social Hymenoptera
In *Sebeok: How Animals Communicate*
Indiana University press, 418-471

- 56 1978 B. Hölldobler, E.O. Wilson
The multiple recruitment systems of the African weaver ant
Oecophylla longinoda (LATREILLE) (Hymenoptera:
Formicidae)
Behav. Ecol. Sociobiol. **3**:19-60
- 57 1978 B. Hölldobler
Ethological aspects of chemical communication in ants
Advances in the study of behavior **8**:75-115
- 58 1978 B. Hölldobler, R.C. Stanton, H. Markl
Recruitment and food-retrieving behavior in *Novomessor*
Formicidae, Hymenoptera). I. Chemical Signals
Behav. Ecol. and Sociobiol. **4**:163-181
- 59 1978 H. Markl, B. Hölldobler
Recruitment and food-retrieving behavior in *Novomessor*
(Formicidae, Hymenoptera). II. Vibration Signals
Behav. Ecol. Sociobiol. **4**:183-216
- 60 1979 B. Hölldobler
Territoriality in ants
Proc. Amer. Phil. Soc. **123**:211-218
- 61 1978 B. Hölldobler, H. Engel
Tergal and sternal glands in ants
Psyche **85**:285-330
- 62 1979 B. Hölldobler
Territories of the African weaver ant (*Oecophylla longinoda*
LATREILLE)
Z. Tierpsychol. **51**:201-213
- 63 1980 M.S. Blum, T.H. Jones, B. Hölldobler, H.M. Fales, T. Jaouni
Alkaloidal venom mace: offensive use by a thief ant
Naturwissenschaften **67**:144
- 64 1980 B. Hölldobler, J. Traniello
Tandem Running Pheromone in Ponerine Ants
Naturwissenschaften **67**:360
- 65 1980 B. Hölldobler, J. Traniello
The Pygidial Gland and Chemical Recruitment Communication
in *Pachycondyla* (=Termitopone) *leavigata*
Journal of Chemical Ecology **6**:883-893
- 66 1980 B. Hölldobler
Canopy Orientation: A New Kind of Orientation in Ants
Science **210**:86-88,
- 67 1980 B. Hölldobler, C.D. Michener
Mechanisms of Identification and Discrimination in
Social Hymenoptera
Evolution of Social Behavior: Hypotheses and Empirical Tests,
ed. H. Markl, Dahlem Konferenzen, 35-38

- 68 1980 B. Hölldobler, C. Lumsden
Territorial Strategies in Ants
Science **210**:732-739
- 69 1980 E.O. Wilson, B. Hölldobler
Sex Differences in Cooperative Silk-spinning by Weaver
Ant Larvae
Proc. Nat. Acad. Sci. **77**:2343-2347
- 70 1980 B. Hölldobler, M. Möglich
The Foraging System of *Pheidole militicida*
(Hymenoptera: Formicidae)
Insectes Sociaux **27**:237-264
- 71 1981 B. Hölldobler
Foraging and Spatiotemporal Territories in the Honey Ant
Myrmecocystus mimicus Wheeler (Hymenoptera: Formicidae)
Behav. Ecol. Sociobiol. **9**:301-314
- 72 1982 B. Hölldobler
Interference Strategy of *Iridomyrmex pruinosum*
(Hymenoptera: Formicidae) During Foraging
Oecologia (Berl.) **52**:208-213
- 73 1982 B. Hölldobler, H. Engel, R.W. Taylor
A New Sternal Gland in Ants and its Function in Chemical
Communication
Naturwissenschaften **69**:90
- 74 1982 B. Hölldobler
The Cloacal Gland, a New Pheromone Gland in Ants
Naturwissenschaften **69**:186
- 75 1982 S.H. Bartz, B. Hölldobler
Colony Founding in *Myrmecocystus mimicus* Wheeler
(Hymenoptera: Formicidae) and the evolution of foundress
associations
Behav. Ecol. Sociobiol. **10**:137-147
- 76 1981 B. Hölldobler
Trail Communication of the Dacetine Ant *Orectognathus*
versicolor (Hymenoptera: Formicidae)
Psyche **88**:245-257
- 77 1981 B. Hölldobler, M. Möglich, U. Maschwitz
Myrmecophilic Relationship of *Pella* (Coleoptera:
Staphylinidae) to *Lasius fuliginosus* (Hymenoptera: Formicidae)
Psyche **88**:347-374
- 78 1981 B. Hölldobler
Zur Evolution von Rekrutierungssignalen bei Ameisen
Nova Acta Leopoldina **54**:431-447

- 79 1982 B. Hölldobler
Chemical Communication in Ants: New Exocrine Glands and their Behavioral Function.
The Biology of Social Insects, Proc. of the Ninth Congr. of the Union for the Study of Social Insects, Boulder, Colorado, 312-317
- 80 1982 B. Hölldobler
Communication, Raiding Behavior and Prey Storage in *Cerapachys* (Hymenoptera: Formicidae)
Psyche **89**:3-23
- 81 1982 B. Hölldobler, H. Engel-Siegel
Tergal and Sternal Glands in Male Ants
Psyche **89**:113-132
- 82 1983 C. Lumsden, B. Hölldobler
Ritualized Combat and Intercolony Communication in Ants
J. Theoret. Biol. **100**:81-98
- 83 1983 J. Meinwald, D.F. Wiemer, B. Hölldobler
Pygidial Gland Secretions of the Ponerine Ant *Rhytidoponera metallica*
Naturwissenschaften **70**:46
- 84 1983 B. Hölldobler, E.O. Wilson
Queen Control in Colonies of Weaver Ants (Hymenoptera: Formicidae)
Ann. of the Ent. Soc. of America **76**:235-238
- 85 1983 B. Hölldobler, E.O. Wilson
The evolution of Communal Nest-Weaving in Ants
American Scientist, 490-499
- 86 1983 B. Hölldobler
Chemical Manipulation, Enemy Specification and Intercolony Communication in Ant Communities
Neuroethology and Behavioral Physiology (eds. F. Huber and H. Markl), 355-365
- 87 1984 N.F. Carlin, B. Hölldobler
Nestmate and Kin Recognition in Interspecific Mixed Colonies of Ants
Science **222**:1027-1029
- 88 1983 B. Hölldobler, R.W. Taylor
A Behavioral Study of the Primitive Ant *Nothomyrmecia macrops* CLARK
Insectes Sociaux **30**:384-401
- 89 1983 B. Hölldobler
Territorial behavior in the green tree ant *Oecophylla smaragdina*
Biotropica **15**:241-250

- 90 1984 J.F.A. Traniello, B. Hölldobler
Chemical Communication during tandem running in
Pachycondyla obscuricornis (Hymenoptera: Formicidae)
J. of. Chem. Ecol. **10**:783-794
- 91 1984 B. Hölldobler
Communication during foraging and nest-relocation in
the African stink ant, *Paltothyreus tarsatus* Fabr.
(Hymenoptera, Formicidae, Ponerinae)
Zeitschrift für Tierpsychologie **65**:40-52
- 92 1984 B. Hölldobler
The wonderfully diverse ways of the ant
National Geographic **165**:779-881
- 93 1984 B. Hölldobler
Evolution of insect communication
Insect Communication, the Royal Entomological Society
of London, 349-377
- 94 1985 B. Hölldobler, M. Lindauer (eds.)
Experimental Behavioral Ecology and Sociobiology
Fortschritte der Zoologie **31**:1-488
- 95 1985 B. Hölldobler, S. Bartz
Sociobiology of Reproduction in ants. Experimental
Behavioral Ecology and Sociobiology
B. Hölldobler and M. Lindauer (eds.),
Fortschritte der Zool. **31**:237-257
- 96 1985 B. Hölldobler
Karl von Frisch and the Beginning of Experimental
Behavioral Ecology
Experimental Behavioral Ecology and Sociobiology
B. Hölldobler and M. Lindauer (eds.),
Fortschritte der Zool. **31**:1-3
- 97 1985 B. Hölldobler
Territoriality Among *Oecophylla*
National Geographic Society Research Reports:
1977 Projects, 369-371
- 98 1984 B. Hölldobler, H. Engel-Siegel
On the Metapleural Gland of Ants
Psyche **91**:201-224
- 99 1984 B. Hölldobler
A New Exocrine Gland in the Slave Raiding Ant
Genus *Polyergus*
Psyche **91**:225-235
- 100 1985 E.O. Wilson, B. Hölldobler
Caste-specific techniques of defense in the polymorphic
ant *Pheidole embolopyx* (Hymenoptera: Formicidae)
Insectes Sociaux **32**:3-22

- 101 1985 T. Bellas, B. Hölldobler
Constituents of mandibular and Dufour's glands of an
Australian *Polyrhachis* weaver ant
J. Chemical Ecology **11**:525-538
- 102 1985 B. Hölldobler, N. Carlin
Colony founding, queen dominance and oligogyny in the
Austrian meat ant *Iridomyrmex purpureus*
Behav. Ecol. Sociobiol. **18**:45-58
- 103 1986 B. Hölldobler, E.O. Wilson
Nest Area Exploration and Recognition in Leafcutter
Ants (*Atta Cephalotes*)
J. Insect Physiol. **32**:143-150
- 104 1986 B. Hölldobler, E.O. Wilson
Soil-binding pilosity and camouflage in ants of the
tribes *Basicerotini* and *Stegomyrmecini* (Hymenoptera
Formicidae)
Zoomorphology **106**:12-20
- 105 1986 B. Hölldobler
Food robbing in ants, a form of interference competition
Oecologia **69**:12-25
- 106 1985 B. Hölldobler
Liquid food transmission and antennation signals in
ponerine ants
Israel Journal of Entomology **XIX**, 89-99
- 107 1986 N.F. Carlin, B. Hölldobler
The kin recognition system of carpenter ants
(*Camponotus* spp.) I. Hierarchical cues in small colonies
Behav. Ecol. Sociobiol. **19**:123-134
- 108 1985 D.E. Wheeler, B. Hölldobler
Cryptic phragmosis: the structural modifications
Psyche **92**:337-353
- 109 1986 B. Hölldobler
Konkurrenzverhalten und Territorialität in Ameisen-
populationen
In Information Processing in Animals **3**:25-70
- 110 1986 B. Hölldobler, E.O. Wilson
Ecology and Behavior of the Primitive Cryptobiotic Ant
Prionopelta Amabilis (Hymenoptera: Formicidae) (1)
Insectes Sociaux **33**:45-58
- 111 1986 E.O. Wilson, B. Hölldobler
Ecology and Behavior of the Neotropical Cryptobiotic Ant
Basiceros Manni (Hymenoptera: Formicidae: Basicerotini)
Insectes Sociaux **33**:70-84

- 112 1987 N.R. Franks, B. Hölldobler
Sexual competition during colony reproduction in army ants
Biol. J. Linnean Soc. **30**:229-243
- 113 1987 N.F. Carlin, B. Hölldobler
The recognition system of carpenter ants (*Camponotus* spp.)
II. Larger colonies
Behav. Ecol. Sociobiol. **20**:209-217
- 114 1987 N.F. Carlin, B. Hölldobler, D.S. Gladstein
The kin recognition system of carpenter ants
(*Camponotus* spp.) III. With-in colony discrimination
Behav. Ecol. Sociobiol. **20**:219-227
- 115 1987 B. Hölldobler, N.F. Carlin
Anonymity and specificity in the chemical communication
signals of social insects
J. Comp. Physiol. A **161**:567-581
- 116 1987 N.F. Carlin, R. Halpern, B. Hölldobler, P. Schwartz
Early learning and the recognition of conspecific cocoons
by carpenter ants (*Camponotus* spp.)
Ethology **75**:306-316
- 117 1988 E.O. Wilson, B. Hölldobler
Dense Heterarchies and Mass Communication as the Basis
of Organization in Ant Colonies
Trends in Ecology and Evolution **3**:65-68
- 118 1988 B. Hölldobler
Communication and Competition in Ant Communities
Evolution and Coadaptation in Biotic Communities
University of Tokyo Press, 95-124
- 119 1987 D.M. Gordon, B. Hölldobler
Worker Longevity in Harvester Ants (*Pogonomyrmex*)
Psyche **94**:341-346
- 120 1988 N.F. Carlin, B. Hölldobler
Influence of Virgin Queens on Kin Recognition in the
Carpenter Ant *Camponotus Floridanus* (Hymenoptera:
Formicidae)
Insectes Sociaux, Paris **35**:191-197
- 121 1989 B. Hölldobler, J.M. Palmer, K. Masuko,
W.L. Brown, Jr.
New exocrine glands in the legionary ants of the genus
Leptanilla (Hymenoptera, Formicidae, Leptanillinae)
Zoomorphology **108**:255-261
- 122 1988 B. Hölldobler
Chemical communication in *Meranoplus* (Hymenoptera:
Formicidae)
Psyche **95**:139-151
- 123 1989 P.S. Oliveira, B. Hölldobler

- Orientation and communication in the Neotropical ant
Odontomachus bauri Emery (Hymenoptera, Formicida,
Ponerinae)
Ethology **83**:154-166
- 124 1989 B. Hölldobler, J.M. Palmer
A new tarsal gland in ants and the possible role in
chemical communication
Naturwissenschaften **76**:385-386
- 125 1990 B. Hölldobler, E.O. Wilson
The Ants
Harvard University Press (Cambridge, USA) and
Springer Verlag (Heidelberg, Berlin) pp 732
- 126 1989 B. Hölldobler, J.M. Palmer
Footprint glands in *Amblyopone australis*
(Formicidae, Ponerinae)
Psyche **96**:111-121
- 127 1989 B. Hölldobler, E.O. Wilson
PATHS OF GLORY. Following Army Ants as They March
Through the Tropics
The Sciences **29**:18-23
- 128a 1989 B. Hölldobler
Festvortrag. Soziale Verständigung und territorialer Konflikt in
Ameisenpopulationen
Jahrbuch d. Bayer. Akademie d. Wissenschaften, 1-11
- 128b 1991 B. Hölldobler
Soziale Verständigung und territorialer Konflikt in
Ameisenpopulationen
Naturwissenschaftl. Rundschau **2**:43-52
- 129 1989 B. Hölldobler, N.F. Carlin
Colony Founding, Queen Control and Worker
Reproduction in the Ant *Aphaenogaster* (= *Novomessor*)
cockerelli (Hymenoptera: Formicidae)
Psyche **96**:131-151
- 130 1989 B. Hölldobler, H. Markl
Notes on Interspecific, Mixed Colonies in the Harvester
Ant Genus *Pogonomyrmex*
Psyche **96**:237-238
- 131 1990 B. Hölldobler, E.O. Wilson
Host Tree Selection by the Neotropical Ant
Paraponera clavata (Hymenoptera: Formicidae)
Biotropica **22**:213-214
- 132 1990 P.S. Oliveira, B. Hölldobler
Dominance orders in the ponerine ant *Pachycondyla*
apicalis (Hymenoptera, Formicidae)
Behav Ecol Sociobiol **27**:385-393

- 133 1990 B. Hölldobler, J.M. Palmer, M.W. Moffett
Chemical Communication in the Dacetine Ant *Daceton
amigerum* (Hymenoptera: Formicidae)
J. of Chemical Ecology **16**:1207-1219
- 134 1991 N.F. Carlin, B. Hölldobler
The role of the queen in ant nestmate recognition:
reply to Crosland
Anim. Behav. **41**:525-527
- 135 1991 B. Hölldobler
Soziobiologische Klammern und Barrieren im Superor-
ganismus Ameisenstaat (Bonding mechanisms and social
barriers in the superorganism ant society)
Verh. Dtsch. Zool. Ges. **84**:61-78
- 136 1992 B. Hölldobler
Gemeinsam sind sie stark - soziale Verständigung in
Ameisenpopulationen
Alexander von Humboldt-Stiftung Mitteilungen
58:3-14
- 137 1991 P.S. Oliveira, B. Hölldobler
Agonistic interactions and reproductive dominance in
Pachycondyla obscuricornis (Hymenoptera: Formicidae)
Psyche **98**:215-225
- 138 1992 K. Sommer, B. Hölldobler
Pleometrosis in *Lasius niger*
In: J. Billen (Ed.) *Biology and Evolution of Social Insects.*
Leuven University Press, 47-50
- 139 1992 N. Lipski, J. Heinze, B. Hölldobler
Social organization of three European *Leptothorax*
species (Hymenoptera: Formicidae)
In: J. Billen (Ed.) *Biology and Evolution of Social Insects.*
Leuven University Press, 287-290
- 140 1992 J. Heinze, N. Lipski, B. Hölldobler
Reproductive competition in colonies of the ant
Leptothorax gredleri
Ethology **90**:265-278
- 141 1992 B. Hölldobler
Biologie des Flirts: Zur Evolution der Sexualität
In: Mann und Frau - Frau und Mann, Hintergründe,
Ursachen und Problematik der Geschlechterrollen
(W. Böhm u. M. Lindauer, Ed.), 55-81

- 142 1992 F.N.S. Medeiros, L.E. Lopes, R.S. Moutinho, P.S. Oliveira, B. Hölldobler
Functional polygyny, agonistic interactions and reproductive dominance in the neotropical ant *Odontomachus chelifer* (Hymenoptera: Formicidae, Ponerinae)
Ethology **91**:134-146
- 143 1992 B. Hölldobler, M. Obermayer, E.O. Wilson
Communication in the primitive cryptobiotic ant *Prionopelta amabilis* (Hymenoptera: Formicidae)
J. Comp. Physiol. **170**:9-16
- 144 1992 K. Sommer, B. Hölldobler
Coexistence and dominance among queens and mated workers in the ant *Pachycondyla tridentata*
Naturwissenschaften **19**:470-472
- 145 1992 J. Heinze, B. Hölldobler, S.P. Cover
Queen polymorphism in the North American harvester ant, *Ephebomyrmex imberbiculus*
Insectes Sociaux **39**:267-273
- 146 1992 K. Fiedler, B. Hölldobler
Ants and *Polyommatus icaris* immatures (Lycaenidae)-sex-related developmental benefits and costs of ant-attendance
Oecologia **91**:468-473
- 147 1992 C. Peeters, B. Hölldobler
Notes on the morphology of the sticky "doorknobs" of larvae in an Australian *Hypoponera* Sp. (Formicidae; Ponerinae)
Psyche **99**:23-30
- 148 1992 B. Hölldobler, E.O. Wilson
Pheidole nasutoides, a new species of Costa Rican ant that apparently mimics termites
Psyche **99**:15-22
- 149 1992 E.D. Morgan, B. Hölldobler, T. Vaisar, B.D. Jackson
Contents of poison apparatus and their relation to trail-following in the ant *Daceton armigerum*
J. of Chemical Ecology **18**:2161-2168
- 150 1992 C. Peeters, J. Billen, B. Hölldobler
Alternative Dominance Mechanisms Regulating Monogyny in the Queenless Ant Genus *Diacamma*
Naturwissenschaften **79**:572-573
- 151 1993 J. Heinze, S. Kühnholz, K. Schilder, B. Hölldobler
Behavior of ergatoid males in the ant, *Cardiocondyla nuda*
Ins. Soc. **40**:273-282

- 152 1993 K. Sommer, B. Hölldobler, H. Rembold
Behavioral and Physiological Aspects of Reproductive
Control in a *Diacamma* Species from Malaysia
(Formicidae, Ponerinae)
Ethology **94**:162-170
- 153 1993 J. Heinze, T. Gübitz, C. Errard, A. Lenoir, B. Hölldobler
Reproductive competition and colony fragmentation in
the guest-ant, *Formicoxenus provancheri*
Experientia **49**:814-816
- 154 1993 J. Heinze, B. Hölldobler
Fighting for a harem of queens: Physiology of reproduction
in *Cardiocondyla* male ants
Proc.Natl.Acad.Sci. USA **90**:8412-8414
- 155 1993 F. Roces, J. Tautz, B. Hölldobler
Stridulation in Leaf-Cutting Ants
Naturwissenschaften **80**:521-524
- 156 1993 W. Gronenberg, J. Tautz, B. Hölldobler
Fast Trap Jaws and Giant Neurons in the Ant *Odontomachus*
Science **262**:561-563
- 157 1993 J. Heinze, B. Hölldobler
Queen Polymorphism in an Australian Weaver Ant
Polyrhachis cf. *Doddi*
Psyche **100**:1-2
- 158 1994 J. Heinze, J. Gadau, B. Hölldobler
Genetic Variability in the Ant *Camponotus floridanus*
Detected by Multilocus DNA Fingerprinting
Naturwissenschaften **81**:34-36
- 159 1994 B. Hölldobler, C. Peeters, M. Obermayer
Exocrine glands and the attractiveness of the ergatoid
queen in the ponerine ant *Megaponera foetens*
Ins.Soc. **41**:63-72
- 160 1994 F. Roces, B. Hölldobler
Leaf density and a trade-off between load-size selection
and recruitment behavior in the ant *Atta cephalotes*
Oecologia **97**:1-8
- 161 1994 C. Peeters, B. Hölldobler, M. Moffett, T.M. Musthak Ali
"Wall-papering" and elaborate nest architecture in the
ponerine ant *Harpegnathos saltator*
Ins.Soc. **41**:211-218
- 162 1994 J. Heinze, B. Hölldobler
Ants in the cold
Memorabilia Zoologica **48**:99-108

- 163 1994 B. Hölldobler, U. Braun, W. Gronenberg, W.H. Kirchner, C. Peeters
Trail Communication in the Ant *Megaponera foetens* (Fabr.) (Formicidae, Ponerinae)
J. Insect Physiol. **40**:585-593
- 164 1994 J. Heinze, D. Ortius, M. Kaib, B. Hölldobler
Interspecific aggression in colonies of the slave-making ant *Harpagoxenus sublaevis*
Behav. Ecol. Sociobiol. **35**:75-83
- 165 1994 J. Tautz, B. Hölldobler, T. Danker
The ants that jump: different techniques to take off
Zoology **98**:1-6
- 166 1994 U. Braun, C. Peeters, B. Hölldobler
The Giant Nests of the African Stink Ant *Paltothyreus tarsatus* (Formicidae, Ponerinae)
Biotropica **26**:308-311
- 167 1994 J. Heinze, B. Hölldobler, C. Peeters
Conflict and Cooperation in Ant Societies
Naturwissenschaften **81**:489-497
- 168 1995 J. Tautz, F. Roces, B. Hölldobler
Use of a Sound-Based Vibratome by Leaf-Cutting Ants
Science **267**:84-87
- 169 1995 J. Heinze, B. Hölldobler
Thelytokous Parthenogenesis and Dominance Hierarchies in the Ponerine Ant, *Platythyrea punctata*
Naturwissenschaften **82**:40-41
- 170 1994 K. Sommer, B. Hölldobler, K. Jessen
The Unusual Social Organization of the Ant *Pachycondyla tridentata* (Formicidae, Ponerinae)
J. Ethol. **12**:175-185
- 171 1995 B. Hölldobler
The chemistry of social regulation: Multicomponent signals in ant societies
Proc. Natl. Acad. Sci **92**:19-22
- 172 1995 J. Heinze, N. Lipski, B. Hölldobler, A.F.G. Bourke
Geographical variation in the social and genetic structure of the ant, *Leptothorax acervorum*
Zoology **98**:127-135
- 173 1994 B. Hölldobler, E.O. Wilson
Journey to the Ants
Belknap-Press of Harvard University Press, Cambridge, Mass., pp. 228

- 174 1995 H.J. Bestmann, U. Haak, F. Kern, B. Hölldobler
2,4-Dimethyl-5-hexanolide, a trail pheromone
component of the carpenter ant *Camponotus herculeanus*
(Hymenoptera: Formicidae)
Naturwissenschaften **82**:142-144
- 175 1994 N. Lipski, J. Heinze, B. Hölldobler
Untersuchungen zu Koloniestruktur und genetischem
Verwandtschaftsgrad bei *Leptothorax muscorum*
(Hym., Formicidae)
Mitt. Dtsch. Ges. Allg. Angew. Ent. **9**:355-359
- 176 1995 H.J. Bestmann, E. Hanssen, F. Kern, B. Liepold,
B. Hölldobler
All-*trans* Geranylgeranyl Acetate and Geranylgeraniol,
Recruitment pheromone Components in the Dufour gland
of the Ponerine Ant *Ectatomma ruidum*
Naturwissenschaften **82**:334-336
- 177 1995 J. Heinze, B. Hölldobler, S. Trenkle
Reproductive behavior of the ant *Leptothorax*
(*Dichothorax*) *pergandei*
Insectes Sociaux **42**:309-315
- 178 1995 K. Sommer, B. Hölldobler
Colony founding by queen association and determinants of reduction
in queen number in the ant *Lasius niger*
Animal Behaviour **50**:287-294
- 179 1995 B. Hölldobler, N.J. Oldham, E.D. Morgan, W.A. König
Recruitment Pheromones in the Ants *Aphaenogaster*
albisetosus and *A. cockerelli* (Hymenoptera: Formicidae)
J. Insect Physiol **41**:739-744
- 180 1995 W.P. Mac Kay, S.P. Cover, J. Heinze, B. Hölldobler
Range Extensions for the Ant *Leptothorax pergandei*
(Hymenoptera: Formicidae): A Mesic Forest Species
Discovered in the Chihuahuan Desert
Proc. Entomol. Soc. Wash. **97**:888
- 181 1995 F. Roces, B. Hölldobler
Vibrational communication between hitchhikers and
foragers in leaf-cutting ants (*Atta cephalotes*)
Behav. Ecol. Sociobiol. **37**:297-302
- 182 1996 B. Hölldobler, E. Janssen, H.J. Bestmann, I.R. Leal,
P.S. Oliveira, F. Kern, W.A. König
Communication in the migratory termite-hunting ant
Pachycondyla (= *Termitopone*) *marginata*
(Formicidae, Ponerinae)
J. Comp. Physiol. A **178**:47-53

- 183 1995 E. Übler, F. Kern, H.J. Bestmann, B. Hölldobler, A.B. Attygalle
Trail Pheromone of Two Formicine Ants, *Camponotus silvicola* and *C. rufipes* (Hymenoptera: Formicidae)
Naturwissenschaften **82**:523-525
- 184 1995 E. Janssen, H.J. Bestmann, B. Hölldobler, F. Kern
N,N-Dimethyluracil and Actinidine, Two Pheromones of the Ponerine Ant *Megaponera foetens* (Fab.) (Hymenoptera: Formicidae)
Journal of Chemical Ecology **21**:1947-1955
- 185 1996 F. Fiedler, B. Hölldobler, P. Seufert
Butterflies and ants: the communicative domain; *Experientia*, **52**:14-24
- 186 1995 J. Heinze, N. Lipski, K. Schlehmeier, B. Hölldobler
Colony structure and reproduction in the ant, *Leptothorax acervorum*
Behav. Ecology **6**:359-367
- 187 1995 C. Peeters, B. Hölldobler
Reproductive cooperation between queens and their mated workers: The complex life history of an ant with a valuable nest
Proc. Natl. Acad. Sci. **92**:10977-10979
- 188 1996 J. Heinze, S. Foitzik, A. Hippert, B. Hölldobler
Apparent Dear-enemy Phenomenon and Environment-based Recognition Cues in the Ant *Leptothorax nylanderii*
Ethology **102**:510-522
- 189 1996 J. Heinze, B. Trunzer, P.S. Oliveira, B. Hölldobler
Regulation of Reproduction in the Neotropical Ponerine Ant, *Pachycondyla villosa*
Journal of Insect Behavior **9**:441-450
- 190 1996 B. Hölldobler
Chemische Botenstoffe in Ameisenstaaten
Change **1**:61-69
- 191 1996 D. Schröder, H. Deppisch, M. Obermayer, G. Krohne, E. Stackebrandt, B. Hölldobler, W. Goebel, R. Gross
Intracellular endosymbiotic bacteria of *Camponotus* species (carpenter ants): systematics, evolution and ultrastructural characterization
Molecular Microbiology **21**:479-489
- 192 1996 W. Gronenberg, S. Heeren, B. Hölldobler
Age-dependent and task-related morphological changes in the brain and the mushroom bodies of the ant *Camponotus floridanus*
The Journal of Experimental Biology **199**:2011-2019

- 193 1996 O. Düsselmann, C. Peeters, B. Hölldobler
Morphology and reproductive behavior of intercastes in
the ponerine ant *Pachycondyla obscuricornis*
Ins. Soc. **43**:421-425
- 194 1996 F. Roces, B. Hölldobler
Use of stridulation in foraging leaf-cutting ants:
mechanical support during cutting or short-range
recruitment signal?
Behav. Ecol. Sociobiol. **39**:93-299
- 195 1996 B. Hölldobler
Verständigung im Ameisenstaat
Communication in ant societies.
Verh. Dtsch. Zool. Ges. **89.2**:7-24
- 196 1996 U. Haak, B. Hölldobler, H.J. Bestmann, F. Kern
Species-specificity in trail pheromones and Dufour's gland
contents of *Camponotus atriceps* and *C. floridanus*
(Hymenoptera: Formicidae)
Chemoecology **7**:85-93
- 197 1996 B. Hölldobler, M. Obermayer, C. Peeters
Comparative study of the metatibial gland in ants
(Hymenoptera, Formicidae)
Zoomorphology **116**:157-167
- 198 1996 J. Gadau, J. Heinze, B. Hölldobler, M. Schmid
Population and colony structure of the carpenter ant
Camponotus floridanus
Molecular Ecology **5**:785-792
- 199 1996 J. Heinze, M. Stahl, B. Hölldobler
Ecophysiology of hibernation in boreal *Leptothorax* ants
(Hymenoptera: Formicidae)
Ecoscience **3**:429-435
- 200 1997 H.J. Bestmann, E. Übler, B. Hölldobler
First Biosynthetic Studies on Trail Pheromones in Ants
Angew. Chem. Int. Ed. Engl. **36**:395-397
- 201 1995 J. Liebig, J. Heinze, B. Hölldobler
Queen Size Variation in the Ponerine Ant *Ponera Coarctata*
(Hymenoptera:Formicidae)
Psyche **102**:1-11

- 202 1997 J. Liebig, J. Heinze, B. Hölldobler
Trophallaxis and Aggression in the Ponerine Ant, *Ponera coarctata*:
Implications for the Evolution of Liquid Food Exchange in the
Hymenoptera
Ethology **103**:707-722
- 203 1997 W. Gronenberg, J. Paul, S. Just, B. Hölldobler
Mandible muscle fibers in ants: fast or powerful?
Cell Tissue Res. **289**:347-361
- 204 1996 B. Hölldobler
Signale und Informationsverarbeitung in Ameisenpopulationen
In: Koordinaten der menschlichen Zukunft: Energie-Materie-
Information-Zeit.
Verh.d.Ges.Deutscher Naturforscher und Ärzte, 119. Versammlung,
313-330
- 205 1997 J. Heinze, C. Elsishans, B. Hölldobler
No Evidence for Kin Assortment during Colony Propagation in a
Polygynous Ant.
Naturwissenschaften **84**:249-250
- 206 1997 W. Federle, U. Maschwitz, B. Fiala, M. Riederer, B. Hölldobler
Slippery ant-plants and skilful climbers: selection and protection of
specific ant partners by epicuticular wax blooms in
Macaranga (Euphorbiaceae)
Oecologia **112**:217-224
- 207 1997 R. Wirth, W. Beyschlag, R.J. Ryel, B. Hölldobler
Annual foraging of the leaf-cutting ant *Atta colombica* in a
semideciduous rain forest in Panama
Journal of Tropical Ecology **13**:741-757
- 208 1997 E. Janssen, B. Hölldobler, F. Kern, H.J. Bestmann, K. Tsuji
Trail Pheromone of Myrmicine Ant *Pristomyrmex pungens*
Journal of Chemical Ecology, **4**:1025-1034
- 209 1997 J. Heinze, W. Puchinger, B. Hölldobler
Worker reproduction and social hierarchies in *Leptothorax* ants
Anim. Behav. **54**:849-864
- 210 1997 B. Hölldobler
Vom Verhalten zum Gen: Die Soziobiologie eines Superorganismus
Nova Acta Leopoldina NF76, **303**:205-223

- 211 1997 C. Liefke, U. Maschwitz, B. Hölldobler
Rekrutierungsstrategien als wichtige Nischendimension:
Polyrhachis illaudata und *Polyrhachis proxima* (Formicidae),
syntope Zwillingarten aus Westmalaysia
Mitteilg .der Deutsch. Gesellsch. f. allgem. u. angew.
Entomologie, **11**:759-762
- 212 1998 O. Rüppell, J. Heinze, B. Hölldobler
Size-dimorphism in the queens of the North American ant
Leptothorax rugatulus (Emery)
Insectes Soc. **45**:67-77
- 213 1998 J. Liebig, B. Hölldobler, C. Peeters
Are Ant Workers Capable of Colony Foundation?
Naturwissensch. **85**:133-135
- 214 1998 P.S.Oliveira, M. Obermayer, B. Hölldobler
Division of Labor in the Neotropical ant *Pachycondyla stigma*
(Ponerinae), with Special Reference to Mutual Antennal Rubbing
between Nestmates (Hymenoptera)
Sociobiology **31**:9-24
- 215 1998 J. Heinze, B. Hölldobler, K. Yamauchi
Male competition in *Cardiocondyla* ants
Behav. Ecol. Sociobiol. **42**:239-246
- 216 1995 B. Ehmer, B. Hölldobler
Foraging behavior of *Odontomachus Bauri* on Barro Colorado
Island, Panama
Psyche, **102**:215-224 (published in 1998)
- 217 1995 J. Heinze, S.P. Cover, B. Hölldobler
Neither worker, nor queen: an ant caste spezialized in the
production of unfertilized eggs
Psyche, **102**:173-185 (published in 1998)
- 218 1998 W. Gronenberg, B. Hölldobler, G.D. Alpert
Jaws that snap: control of mandible movements in the ant *Mystrium*
Journal of Insect Physiology, **44**:241-253
- 219 1998 B. Trunzer, J. Heinze, B. Hölldobler
Cooperative colony founding and experimental primary polygyny in the
ponerine ant *Pachycondyla villosa*
Insectes Sociaux, **45**:267-276
- 220 1998 K. Tsuji, C. Peeters, B. Hölldobler

- Experimental Investigation of the Mechanism of Reproductive Differentiation in the Queenless Ant, *Diacamma* sp., from Japan
Ethology, **104**:633-643
- 221 1998 W. Gronenberg, B. Hölldobler
Ameisen - Leben in einer Welt von Duft- und Berührungsreizen
Neuroforum, **3**:242-251
- 222 1998 B. Hölldobler, M. Obermayer, G.D. Alpert
Chemical trail communication in the amblyoponine species *Mystrium rogeri* Forel (Hymenoptera, Formicidae, Ponerinae)
Chemoecology, **8**:119-123
- 223 1998 C. G. Galizia, K. Nägler, B. Hölldobler, R. Menzel
Odour coding is bilaterally symmetrical in the antennal lobes of honeybees (*Apis mellifera*)
European Journal of Neuroscience, **10**:2964-2974
- 224 1998 C. Liefke, W.H.O. Dorow, B. Hölldobler, U. Maschwitz
Nesting and food resources of syntopic species of the ant genus *Polyrhachis* (Hymenoptera, Formicidae) in West-Malaysia
Insectes Sociaux, **45**:411-425
- 225 1998 J. Heinze, B. Oberstadt, J. Tentschert, B. Hölldobler, H.J. Bestmann
Colony specificity of Dufour gland secretions in a functionally monogynous ant
Chemoecology **8**:169-174
- 226 1999 J. Heinze, S. Foitzik, B. Oberstadt, O. Rüppel, B. Hölldobler
A Female Caste Specialized for the Production of Unfertilized Eggs in the Ant *Crematogaster smithi*
Naturwissenschaften **86**:93-95
- 227 1998 J. Gadau, P.J. Gertsch, J. Heinze, P. Pamilo, B. Hölldobler
Oligogyny by unrelated queens in the carpenter ant, *Camponotus ligniperdus*
Behav. Ecol. Sociobiol. **44**:23-33
- 228 1999 E. Janssen, B. Hölldobler, H.J. Bestmann
A trail pheromone component of the African stink ant, *Pachycondyla (Paltothyreus) tarsata* Fabricius (Hymenoptera: Formicidae: Ponerinae)
Chemoecology **9**:9-11
- 229 1999 D. Wheeler, J. Liebig, B. Hölldobler
Atypical vitellins in ponerine ants (Formicidae: Hymenoptera)
Journal of Insect Physiology **45**:287-293
- 230 1999 B. Hölldobler

- Multimodal signals in ant communication
 J. Comp. Physiol. A **184**:129-141
- 231 1999 K. Schilder, J. Heinze, B. Hölldobler
 Colony structure and reproduction in the thelytokous parthenogenetic ant
Platythyrea punctata (F. Smith) (Hymenoptera, Formicidae)
 Insectes Sociaux **46**:150-158
- 232 1998 K. Nakata, K. Tsuji, B. Hölldobler, A. Taki
 Sexual Calling by Workers Using the Metatibial Glands in the Ant,
Diacamma sp., from Japan (Hymenoptera: Formicidae)
 Journal of Insect Behavior **6**:869-877
- 233 1999 J. Heinze, B. Hölldobler, G. Alpert
 Reproductive Conflict and Division of Labor in *Eutetramorium*
mocquerysi, a Myrmicine Ant Without Morphologically Distinct
 Female Reproductives
 Ethology **105**:701-717
- 234 1999 W. Gronenberg, B. Hölldobler
 Morphologic Representation of Visual and Antennal Information in
 the Ant Brain
 The Journal of Comparative Neurology **412**:229-240
- 235 1999 K. Tsuji, K. Egashira, B. Hölldobler
 Regulation of worker reproduction by direct physical contact in the
 ant *Diacamma* sp. from Japan
 Animal Behaviour **58**:337-343
- 236 1999 J. Liebig, C. Peeters, B. Hölldobler
 Worker policing limits the number of reproductives in a ponerine ant
 Proc. R. Soc. Lond. B **266**:1865-1870
- 237 1999 K. Schilder, J. Heinze, R. Gross, B. Hölldobler
 Microsatellites reveal clonal structure of populations of the thelytokous
 ant *Platythyrea punctata* (F. Smith) (Hymenoptera; Formicidae)
 Molecular Ecology **8**:1497-1507
- 238 1999 C.G. Galizia, R. Menzel, B. Hölldobler
 Optical Imaging of Odor-Evoked Glomerular Activity Patterns in the
 Antennal Lobes of the Ant *Camponotus rufipes*
 Naturwissenschaften **86**:533-537
- 239 1999 B. Trunzer, J. Heinze, B. Hölldobler
 Social Status and Reproductive Success in Queenless Ant Colonies
 Behaviour **136**:1093-1105
- 240 2000 W. Federle, K. Rohrseitz, B. Hölldobler

- Attachment forces of ants measured with a centrifuge: Better 'wax-runners' have a poorer attachment to a smooth surface
The Journal of Experimental Biology **203**:505-512
- 241 2000 J. Liebig, C. Peeters, N.J. Oldham, C. Markstädter, B. Hölldobler
Are variations in cuticular hydrocarbons of queens and workers a reliable signal of fertility in the ant *Harpegnathos saltator*?
PNAS **97**:4124-4131
- 242 2000 C. Markstädter, W. Federle, R. Jetter, M. Riederer, B. Hölldobler
Chemical composition of the slippery epicuticular wax blooms on *Macaranga* (Euphorbiaceae) ant-plants
Chemoecology **10**:033-040
- 243 2000 E. Kohl, B. Hölldobler, H.-J. Bestmann
A trail pheromone component of the ant *Mayriella overbecki* Viehmeyer (Formicidae: Myrmicinae)
Naturwissenschaften **87**:320-322
- 244 2000 J. Tentschert, H.-J. Bestmann, B. Hölldobler, J. Heinze
2,3-Dimethyl-5-(2-methylpropyl)pyrazine, a trail pheromone component of *Eutetramorium mocquerysi* Emery (1899) (Hymenoptera: Formicidae)
Naturwissenschaften **87**:377-380
- 245 2000 C. Sauer, B. Hölldobler, R. Gross
Bakterielle Endosymbiosen in Insekten
Biospektrum **6**:359-363
- 246 2000 C. Sauer, E. Stackebrandt, J. Gadau, B. Hölldobler, R. Gross
Systematic relationships and cospeciation of bacterial endosymbionts and their carpenter ant host species: proposal of the new taxon *Candidatus* Blochmannia gen. nov.
Int. Journal of System. and Evol. Microbiol. **50**:1877-1886
- 247 2000 B. Hölldobler
Evolution der Kommunikation
In: Weltwunder Sprache (T. Berchem, W. Böhme, M. Lindauer, eds)
10. Würzburger Symposium, pp. 25-41, Klett Verlag Stuttgart, Düsseldorf, Leipzig
- 248 2000 C. Peeters, J. Liebig, B. Hölldobler
Sexual reproduction by both queens and workers in the ponerine ant *Harpegnathos saltator*
Insectes Sociaux **47**:325-332
- 249 2001 O. Ruppell, J. Heinze, B. Hölldobler

- Genetic and social structure of the queen size dimorphic ant
Leptothorax cf. andrei
Ecological Entomology **26**:76-82
- 250 2001 E. Kohl, B. Hölldobler, H.J. Bestmann
Trail and recruitment pheromones in *Camponotus socius*
(Hymenoptera: Formicidae)
Chemoecology **11**:67-73
- 251 2001 B. Hölldobler, E.D. Morgan, N.J. Oldham, J. Liebig
Recruitment pheromone in the harvester ant genus *Pogonomyrmex*
Journal of Insect Physiol. **47**:369-374
- 252 2001 A.N.M. Bot, M.L. Obermayer, B. Hölldobler, J.J. Boomsma
Functional morphology of the metapleural gland in the leaf-cutting
ant *Acromyrmex octospinosus*
Insectes Sociaux **48**:63-66
- 253 2001 W. Federle, E.L. Brainerd, T.A. McMahon, B. Hölldobler
Biomechanics of the movable pretarsal adhesive organ in ants and bees.
PNAS **98**:6215-6220
- 254 2001 J. Heinze, B. Trunzer, B. Hölldobler, J.H.C. Delabie
Reproductive skew and queen relatedness in an ant with primary polygyny
Insectes Sociaux **48**:149-153
- 255 2001 O. Rüppell, J. Heinze, B. Hölldobler
Complex determination of queen body size in the queen size dimorphic ant
Leptothorax rugatulus (Formicidae: Hymenoptera)
Heredity **87**:33-40
- 256 2001 B. Hölldobler, F. Roces
The behavioral ecology of stridulatory communication in leaf-cutting ants.
In: Lee Alan Dugatkin (ed.), Model Systems in Behavioral Ecology,
pp. 92-109, Princeton University Press, Princeton and Oxford
- 257 2001 C. Liefke, B. Hölldobler, U. Maschwitz
Recruitment Behavior in the Ant Genus *Polyrhachis*
(Hymenoptera, Formicidae).
Journal of Insect Behavior **14**:637-656
- 258 2001 J. Tenschert, K. Kolmer, B. Hölldobler, H.-J. Bestmann,
J.H.C. Delabie, J. Heinze
Chemical profiles, division of labor and social status in
Pachycondyla queens (Hymenoptera:Formicidae).
Naturwissenschaften **88**:175-178
- 259 2002 O. Rüppell, J. Heinze, B. Hölldobler

- Intracolony patterns of reproduction in the queen-size dimorphic ant *Leptothorax rugatulus*
Behavioral Ecology **2**:239-247
- 260 2002 O. Ruppell, J. Heinze, B. Hölldobler
Sex ratio variation in a facultatively polygynous ant with size-dimorphic queens
Ethology Ecology & Evolution **14**:53-67
- 261 2002 B. Hölldobler, J. Liebig, G.D. Alpert
Gamergates in the myrmicine genus *Metapone* (Hymenoptera:Formicidae)
Naturwissenschaften **89**:305-307
- 262 2002 B. Hölldobler, N.J. Oldham, G.D. Alpert, J. Liebig
Predatory behavior and chemical communication on two *Metapone* species (Hymenoptera:Formicidae)
Chemoecology **12**:147-151
- 263 2002 O. Ruppell, L. Schäffler, B. Hölldobler
Lack of Plasticity in the Behavior of Queens of the Ant *Leptothorax rugatulus* Emery (Formicidae:Hymenoptera)
Journal of Insect Behavior **15**:447-454
- 264 2002 J. Paul, F. Roces, B. Hölldobler
How Do Ants Stick Out Their Tongues?
Journal of Morphology **254**:39-52
- 265 2002 W. Federle, U. Maschwitz, B. Hölldobler
Pruning of host plant neighbours as defense against enemy ant invasions: *Crematogaster* ant partners of *Macaranga* protected by "wax barriers" prune less than their congeners
Oecologia **132**:264-270
- 266 2002 C. Sauer, D. Dudaczek, B. Hölldobler, R. Gross
Tissue Localization of the Endosymbiotic Bacterium "*Candidatus Blochmannia floridanus*" in Adults and Larvae of the Carpenter Ant *Camponotus floridanus*
Applied and Environmental Microbiology **68**:4187-4193
- 267 2002 V. Dietemann, B. Hölldobler, C. Peeters
Caste specialization and differentiation in reproductive potential in the phylogenetically primitive ant *Myrmecia gulosa*
Insectes Sociaux **49**:289-298
- 268 2003 R. Wirth, H. Herz, R.J. Ryel, W. Beyschlag, B. Hölldobler

- Herbivory of Leaf-Cutting Ants: A case Study on *Atta colombica* in the tropical rainforest of Panama.
Ecological Studies, Vol. 164. Springer, Berlin Heidelberg
New York, pp. 230
- 269 2002 K. Kolmer, B. Hölldobler, J. Heinze
Colony and population structure in *Pachycondyla cf. inversa*, a ponerine ant with primary polygyny.
Ethology Ecology & Evolution **14**:157-164
- 270 2003 J. Gadau, C.P. Strehl, J. Oettler, B. Hölldobler
Determinants of intracolony relatedness in *Pogonomyrmex rugosus* (Hymenoptera; Formicidae) – mating frequency and brood raids, Molecular Ecology **12**: 1931-1938
- 271 2003 D.J.C. Kronauer, J. Gadau, B. Hölldobler
Genetic evidence for intra- and interspecific slavery in honey ants (genus *Myrmecocystus*).
Proceedings of the Royal Society **270**:805-810
- 272 2003 R. Gil, F. J. Silva, E. Zientz, F. Delmotte, F. González-Candelas, A. Latorre, C. Rausell, J. Kamerbeek, J. Gadau, B. Hölldobler, R. C. H. J. van Ham, R. Gross and A. Moya
The genome sequence of *Blochmannia floridanus*: Comparative analysis of reduced genomes.
PNAS **100**: 9388-9393
- 273 2003 E. Kohl, B. Hölldobler, H.-J. Bestmann
Trail pheromones and Dufour gland contents in three *Camponotus* species (*C. castaneus*, *C. balzani*, *C. sericeiventris*: Formicidae, Hymenoptera)
Chemoecology **13**: 113-122
- 274 2003 V. Dietemann, C. Peeters, J. Liebig, V. Thivet, B. Hölldobler
Cuticular hydrocarbons mediate discrimination of reproductives and nonreproductives in the ant *Myrmecia gulosa*
PNAS **100**: 10341-10346
- 275 2003 Walter Federle, Werner Baumgartner and Bert Hölldobler
Biomechanics of ant adhesive pads: frictional forces are rate- and temperature-dependent
The Journal of Experimental Biology **207**: 67-74
- 276 2004 Klaus Schilder, Bert Hölldobler & Jürgen Heinze
Foraging Biology of the Seed-Harvesting Ant, *Pogonomyrmex (Ephebomyrmex) imberbiculus* (Hymenoptera: Formicidae)
Sociobiology **43**: 367-375
- 277 2004 Annett Endler, Jürgen Liebig, Thomas Schmitt, Jane E. Parker, Graeme R. Jones, Peter Schreier and Bert Hölldobler

- Surface hydrocarbons of queen eggs regulate worker reproduction in a social insect
PNAS **101**: 2945-2950
- 278 2004 Bert Hölldobler, E. David Morgan, Neil J. Oldham, Jürgen Liebig and Yue Liu
Dufour gland secretion in the harvester ant genus *Pogonomyrmex*
Chemoecology **14**: 101-106
- 279 2004 Andrew P. Jarvis, Jürgen Liebig, Bert Hölldobler and Neil J. Oldham,
Biosynthesis of the insect pheromone (S)-4-methyl-3-heptanone
ChemChomm: 2004,1196-1197
- 280 2004 Florian Wolschin, Bert Hölldobler, Roy Gross, Evelyn Zientz,
Replication of the Endosymbiotic Bacterium *Blochmannia floridanus* Is
Correlated with the Developmental and Reproductive Stages of Its Ant Host
Applied and Environmental Microbiology **70**, No. **7**: 4096-4102
- 281 2004 Bert Hölldobler
Ernst Mayr: the doyen of twentieth century evolutionary biology
Naturwissenschaften **91**: 249-254
- 282 2004 Bert Hölldobler
Neurobiologie, Ökologie und Evolution des Verhaltens
Sonderforschungsbereich (SFB) 554: Mechanismen und Evolution des
Arthropodenverhaltens: Gehirn – Individuum – Soziale Gruppe -
Superorganismus
BLICK **1/2004**: 22-24
- 283 2004 D.J.C. Kronauer, B. Hölldobler, and J. Gadau
Phylogenetics of the new world honey ants (genus *Myrmecocystus*) estimated
from mitochondrial DNA sequences
Molecular Phylogenetics and Evolution **32**: 416-421
- 284 2004 Frank E. Rheindt, Jürgen Gadau, Christoph-Peter Strehl, Bert Hölldobler
Extremely high mating frequency in the Florida harvester ant (*Pogonomyrmex*
badius)
Behav. Ecol. Sociobiol. **56**: 472-481
- 285 2004 Vincent Dietemann, Christian Peeters, Bert Hölldobler
Gamergates in the Australian ant subfamily Myrmeciinae
Naturwissenschaften **91**: 432-435
- 286 2005 Edward O. Wilson, Bert Hölldobler
The rise of the ants: A phylogenetic and ecological explanation
PNAS **102**: 7411-7414
- 287 2005 Vincent Dietemann, Christian Peeters, Bert Hölldobler
Role of the queen in regulating reproduction in the bulldog ant *Myrmecia*
gulosa: control or signalling?

- Animal Behaviour **69**: 777-784
- 288 2006 Annett Endler, Jürgen Liebig, Bert Hölldobler
Queen fertility, egg marking and colony size in the ant *Camponotus floridanus*
Behav Ecol Sociobiol **59**: 490-499
- 289 2005 Edward O. Wilson, Bert Hölldobler
Eusociality: Origin and consequences
PNAS **102**: 13367-13371
- 290 2005 Vincent Dietemann, Jürgen Liebig, Bert Hölldobler, Christian Peeters
Changes in the cuticular hydrocarbons of incipient reproductives correlate with triggering of worker policing in the bulldog ant *Myrmecia gulosa*
Behav Ecol Sociobiol **58**: 486-496
- 291 2005 Bert Hölldobler
Kommunikation, Kooperation und Konfrontation im Ameisenstaat.
In: N. Elsner und Gerd Lürer "...sind eben alles Menschen",
Wallstein Verlag 2005, pp. 111-130
- 292 2006 Kirk E. Anderson, Bert Hölldobler, Jennifer H. Fewell, Brendon M. Mott, and Jürgen Gadau
Population-wide lineage frequencies predict genetic load in the seed-harvester ant *Pogonomyrmex*
PNAS **103**: 13433-13438
- 293 2007 H. Kern Reeve and Bert Hölldobler
The emergence of a superorganism through intergroup competition
PNAS **104**: 9736-9740
- 294 2007 Annett Endler, Bert Hölldobler and Jürgen Liebig
Lack of physical policing and fertility cues in egg-laying workers of the ant *Camponotus floridanus*
Animal Behaviour **74**: 1171-1180
- 295 2007 Hubert Herz, Wolfram Beyschlag and Berthold Hölldobler
Assessing Herbivory Rates of Leaf-Cutting Ant (*Atta colombica*) Colonies Through Short-Term Refuse Deposition Counts
BIOTROPICA **39(4)**: 476-481
- 296 2007 Hubert Herz, Wolfram Beyschlag and Berthold Hölldobler
Herbivory Rate of Leaf-Cutting Ants in a Tropical Moist Forest in Panama at the Population and Ecosystem Scales
BIOTROPICA **39(4)**: 482-488
- 297 2007 C.J. Kleineidam, W. Rössler, B. Hölldobler, F. Roces
Perceptual differences in trail-following leaf-cutting ants relate to body size
Journal of Insect Physiology **53**: 1233-1241

- 298 2008 H. Herz, B. Hölldobler, F. Roces
Delayed rejection in a leaf-cutting ant after foraging on plants unsuitable for the symbiotic fungus
Behavioral Ecology **19**: 575-582
- 299 2008 Adrian A. Smith, Bert Hölldobler, Jürgen Liebig
Hydrocarbon Signals Explain the Pattern of Worker and Egg Policing in the Ant *Aphaenogaster cockerelli*
J. Chem. Ecol. **34**: 1275-1282
- 300 2008 Bert Hölldobler, E. O. Wilson
The SUPERORGANISM
W.W. Norton (New York, London) pp 522
- 301 2009 Adrian A. Smith, Bert Hölldobler, Jürgen Liebig
Cuticular Hydrocarbons Reliably Identify Cheaters and Allow Enforcement of Altruism in a Social Insect
Current Biology **19**: 78-81
- 302 2009 Adam G. Dolezal, Colin S. Brent, Jürgen Gadau, Bert Hölldobler, Gro V. Amdam
Endocrine physiology of the division of labour in *Pogonomyrmex californicus* founding queens
Animal Behaviour **77**: 1005-1010
- 302a 2009 In Focus Kommentar zu 302
Michelle Pellissier Scott, Editor; Louise Barrett, Executive Editor
Animal Behaviour **77**: 981-982
- 303 2009 Bert Hölldobler
Evolutionenbiologische Wurzeln der Ablehnung des Fremden
In: Elsner N., Fritz, H-J., Gradstein, R. und Reitner, J.
EVOLUTION: Zufall oder Zwangsläufigkeit der Schöpfung.
Wallstein Verlag, Göttingen; pp 387-419
- 304 2010 Bert Hölldobler
Multi-component signals in ant communication
Social Behaviour: Genes, Ecology and Evolution: pp 158-163