

Bibliographie über Pupariumparasitoide synanthroper Fliegen

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Zusammenfassung

In der im wesentlichen bis zum Erscheinungsjahr 1988 reichenden Bibliographie über Pupariumparasitoide synanthroper Fliegen sind ca. 1100 Titel aufgenommen. Schwerpunkte bilden Arbeiten zur Biologie, die Parasitoid-Wirt-Beziehung sowie die Einsatzmöglichkeiten insbesondere von Ektoparasitoiden aus der Familie der Pteromalidae zur biologischen Bekämpfung. Daneben wurden auch einige allgemeine Arbeiten u.a. zur Taxonomie, Ökologie und Zucht von Parasitoiden sowie zur Nebenwirkung von Pestiziden einbezogen. Zur besseren Orientierung ist ein Sachregister angefügt.

Summary

The bibliography contains 1100 papers about pupal parasitoids of synanthropic flies published till 1988. The main emphasis are papers about biology, parasitoid-host-relationships and possibilities of biological control especially with ectoparasitoids from the family of Pteromalidae. In addition some general papers about taxonomy, ecology, rearing methods of parasitoids and side effects of pesticides are received. A subject index is added for a better orientation.

Einleitung

Synanthrope Fliegen zählen weltweit zu den wichtigsten Gesundheitsschädlingen. In den industriell und sozial hochentwickelten Staaten der gemäßigten und subtropischen Zone ist ihr gehäuftes Auftreten durch die Anreicherung von Dung, Futterresten und anderem organischen Material als potentiellern Bruts substrat vorwiegend auf Anlagen und Habitate (z.B. Weideflächen) der Tierproduktion beschränkt. Hier wird ihre potentielle Vektorfunktion häufig unterschätzt und sie werden vielfach nur als Lästlinge betrachtet, die unter gewissen Umständen auch die Zuwachsraten und die Milchleistung in der Tierproduktion negativ beeinflussen. In geringerem Umfange können bei Vernachlässigung hygienischer Normative Massenentwicklungen synanthroper Fliegen auch in bestimmten Bereichen des Erholungs- und Verkehrswesens (z.B. Campingplätze, Autobahnparkplätze), auf ungeordneten Mülldeponien, Sammelplätzen für Haushaltsmüll und in anderen Habitaten erfolgen. In den sozial und hinsichtlich Infrastruktur unterentwickelten ländlichen Gebieten und den Slumvierteln der Großstädte tropischer und subtropischer Klimazonen spielen Fliegen auch heute

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noch eine bedeutende Rolle als Gesundheitsschädlinge im unmittelbaren Wohn- und Lebensbereich der Menschen.

Als Folge der vorrangig auf den Einsatz chemischer Mittel orientierten Bekämpfung haben in den letzten Jahrzehnten einige der wichtigsten synanthropen Fliegenarten insbesondere in Bereichen mit intensiver Tierhaltung eine umfassende Insektizidresistenz ausgebildet.

Steigende Entwicklungskosten für neue Wirkstoffe und Präparate, das wachsende Umweltbewußtsein in breiten Schichten der Bevölkerung und damit auch eine kritischere Bewertung rückstandstoxikologischer und ökologischer Aspekte des Insektizideinsatzes haben seit Mitte der sechziger Jahre auch in der Fliegenbekämpfung das Interesse und die Bemühungen um alternative, nichtchemische Bekämpfungsverfahren stark anwachsen lassen. Unter den natürlichen Gegenspielern wurde neben zahlreichen Prädatoren (räuberische Nematoden, Milben, Käfer u.a.) vor allem den Schlupfwespen als Parasitoide ein hoher Stellenwert zuerkannt, wobei vor allem in den USA intensiv über deren Biologie und Einsatz zur biologischen Bekämpfung gearbeitet wurde (AXTELL, LEGNER, MORGAN, PETERSEN, WYLIE u.a.). Im Gegensatz zu den meisten Insektizidanwendungen sind die Zielobjekte dieser sich selbst reproduzierenden biologischen Bekämpfungsmittel nicht die adulten Fliegen, die bereits vielfach schon abgelegt haben, sondern die noch nicht reproduktionsfähigen, präimaginalen Entwicklungsstadien. Obwohl besonders in den USA zahlreiche Firmen Parasitoide zur biologischen bzw. integrierten Bekämpfung vorzugsweise von Stallfliegen anbieten, können die bisherigen Bekämpfungserfolge, mit einigen Ausnahmen vor allem in Bereichen der Geflügelproduktion, vielfach noch nicht befriedigen. Künftige Untersuchungen müssen deshalb als Schwerpunkte berücksichtigen, wie das zweifellos vorhandene biologische Potential von Schlupfwespen als Pupariumparasitoide synanthroper Fliegen optimal im Rahmen integrierter Bekämpfungsprogramme bzw. eines "Pest Managements" genutzt und gefördert werden kann. Die bisherigen Untersuchungen haben gezeigt, daß allein durch Massenfreilassungen ein ausreichender Bekämpfungseffekt zumeist nicht erreichbar ist. Das Problem liegt nach unserer Auffassung vor allem darin, wie unter Berücksichtigung ökonomischer und arbeitsorganisatorischer Belange die Fliegenbrutplätze so manipuliert werden können, daß sie relativ stabile Ökosysteme mit schlechten Lebensbedingungen für die synanthropen Dipteren und optimalen Entwicklungsbedingungen für deren natürliche Gegenspieler darstellen. Hierzu sind noch zahlreiche ökologische Fragen zu lösen, insbesondere zu den Wechselbeziehungen und zur Populationsdynamik von Parasitoid und Wirt in Abhängigkeit von Umwelt- und Habitatveränderungen, zur Habitatlokalisation, der aktiven und passiven Ausbreitung, der Bedeutung von Nektar oder anderen Kohlehydraten als Zusatznahrung für Pupariumparasitoide und deren Einfluß auf die Reproduktionsrate und die Stabilität von Schlupfwespenpopulationen, dem Potential und der Anpassung nicht heimischer Parasitoide, Kombinationsmöglichkeiten mit Ersatzwirten bzw. Prädatoren (z.B. *Ophyra*) u.a. Die vorliegende Bibliographie soll nicht nur einen Überblick über den aktuellen Stand der Untersuchungen vermitteln, die mit den Sammelberichten zweier "Workshops" von PATTERSON et al. (1981) (707) und PATTERSON & RUTZ (1986) (710) einen gewissen Abschluß erfahren haben, sondern sie soll vor allem als Grundlage und Anregung für weitere Untersuchungen dienen und Kollegen, die sich in die Materie einarbeiten, den Zugriff zur Literatur erleichtern.

Aus diesem Grunde wurde das Spektrum der ausgewählten Literatur bewußt etwas breiter gewählt und auch einige allgemeinere Arbeiten zur Taxonomie und Ökologie sowie von Bestimmungsliteratur parasitischer Insekten unter besonderer Berücksichtigung der Pupariumparasitoide synanthroper Fliegen bzw. der parasitischen Hymenopteren und Aleochariden einbezogen. Es wurden auch Arbeiten aufgenommen, die sich nicht auf synanthrope Fliegen im engeren Sinne als Wirte beschränken, insbesondere bei *Aleochara* sp., *Phygadeuon* sp., *Melittobia* sp. u.a. Auch einige wichtige Arbeiten zur Zucht, Nebenwirkung von Pestiziden u.a. bei eng verwandten Arten von Parasitoiden synanthroper Fliegen, wie z.B. *Phygadeuon trichops* THOMS. wurden integriert. Dagegen wurden über Larval- bzw. Endoparasitoide insbesondere der Drosophilidae nur wenige Arbeiten zur Orientierung aufgenommen, da dies den vorliegenden Umfang sonst noch beträchtlich erweitert hätte. Dies betrifft auch einige Wirte, die als Gesundheitsschädlinge zwar recht

bedeutungsvoll, aber nicht als synanthrop im engeren Sinne angesehen werden, wie z.B. Glossina. Desungeachtet liegt der Schwerpunkt vorliegender Bibliographie, - wie im Titel ausgewiesen -, bei den Pupariumparasitoiden synanthroper Fliegen, d.h. Parasitoiden, die ihre präimaginale Entwicklung mit Ausnahme der meisten Aleochariden innerhalb des Wirtspupariums vollenden, wobei in vielen Fällen bereits das Larvenstadium parasitiert werden kann, wie z.B. durch Braconiden und Cynipoiden. Das Spektrum der "synanthropen Fliegen" wird von uns im Sinne der Definition von POVOLNY (in GREENBERG, 1971 (328)) unter Einbeziehung der Symbovinen (i.w.S.) verstanden. Es sei abschließend noch darauf hingewiesen, daß zur besseren Übersicht die Zitate auch bei zwei oder mehreren Autoren alphabetisch nur nach dem Erstautor und bei mehreren Publikationen nach dem fortlaufenden Erscheinungsjahr geordnet wurden. Die Bibliographie schließt im wesentlichen mit dem Erscheinungsjahr 1988 ab und es ist vorgesehen, sie zu gegebener Zeit durch einen Nachtrag zu ergänzen.

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Control of egg fertilization by *Nasonia vitripennis* (Hymenoptera: Pteromalidae) when laying on parasitized house fly pupae. - Canad. Entomol. - Ottawa 105(1973)5. - S. 709-718.

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Observations on life history and sex ratio variability of *Eupteromalus dubius* (Hymenoptera: Pteromalidae), a parasite of cyclorrhaphous Diptera. - Canad. Entomol. - Ottawa 108(1976)11. - S. 1267-1274.

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(The hosts and seasonal occurrence of *Nasonia vitripennis* in Shanxi, China) chin. - Natural Enemies of Insects (Kunchong Tiandi) 6(1984)3. - S. 158-160.

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(Recent advances in the biocontrol of the housefly) chin. - Chin. J. Biol. Contr. 2(1986)1. - S. 31-34.

1092 YUST, K. +

Preliminary studies on the release of the microhymenopteran parasitoid *Spalangia endius* (Pteromalidae) in northwest Arkansas, U.S.A. poultry houses. - J. Kansas Entomol. Soc. - Manhattan 52(1979)3. - S. 552.

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Evolution in a laboratory host-parasitoid system and its effect on population kinetics. - Canad. Entomol. - Ottawa 112(1980)10. - S. 1049-1060.

1094 ZHAO, B. +

(Parasitism of pupae of flies, *Phormia regina* MEIGEN and *Lucilia sericata* MEIGEN, by a species of Opiinae (Hymenoptera: Braconidae) chin. - Natural Enemies of Insects (Kunchong Tiandi) 6(1984)2. - S. 109.

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(Stimulation of pupation of larvae of *Calliphora vicina* R.-D. (Diptera, Calliphoridae) by the parasite *Aphaereta minuta* NEES (Hymenoptera, Braconidae)) russ. - Dokl. Akad. Nauk SSSR, Biol. - Moskva 216(1974)3. - S. 702-703.

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(On the effect of the infection of larvae of the flies *Calliphora vicina* R.-D. (Diptera, Calliphoridae) by the parasite *Alysia manducator* PANZ. (Hymenoptera, Braconidae)) russ. - Trudy Vsesoj. Entomol. Obshchestva. - Moskva, Leningrad 63(1981). - S. 168-170.

1099 ZINOVJEVA, K.B.

(Effect of short "pulses" of high temperature coinciding with different periods of the light-dark cycle on the development of *Alysia manducator* PANZ. (Hymenoptera, Braconidae)) russ. - Entomol. Obozrenie. - Leningrad 64(1985)1. - S. 3-13.

1100 ZINOVJEVA, K.B.

(Changes in correlations between temperature-activated and temperature-inhibited responses in the reactivation of the Ichneumon fly *Alysia manducator* PANZ. (Hymenoptera, Braconidae) as a function of the length of exposure to cold). - Dokl. Akad. Nauk SSSR, Moskva 293(1987)3. - S. 763-765.

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(Effect of the daily temperature cycle on the termination of larval diapause in *Alysia manducator* PANZ. (Hymenoptera, Braconidae) in continuous darkness and 12h photoperiod) russ. - Entomol. Obozrenie. - Leningrad 67(1988)4. - S. 699-703.

Sachregister (subject index)

Parasitoide (parasitoids)

Allgemein (Parasitoidenspektrum, u.a.) (generally (parasitoid lists et al.)):

97, 211, 241, 249, 251, 260, 261, 328, 346, 347, 360, 386, 408, 436, 486, 488, 497, 499, 520, 522, 527, 547, 638, 655, 718, 743, 751, 796, 902, 906, 912, 917, 922, 939, 950-954, 962, 963, 984, 993, 1004, 1016, 1027,

Staphylinidae (*Aleochara* sp.):

98, 113, 141, 182, 205, 208, 209, 240, 256, 260, 289...293, 300, 315, 341, 347, 350...352, 354, 356...359, 361, 362, 385, 386, 395...398, 417...419, 431...433, 437, 450...453, 459, 460, 486, 488, 497, 499, 500, 509, 512, 514, 516, 520, 523, 536, 537, 548, 550, 551, 556, 561, 590, 591, 607...609, 719...730, 745, 751, 797, 803, 833, 834, 839, 866, 872, 877...881, 887, 912, 922, 927, 928, 935, 938, 948, 952, 954, 971, 972, 975, 982, 1002, 1005, 1030, 1033, 1034, 1060, 1061, 1064,

Hymenoptera, allg.:

13, 102, 206, 207, 227, 240, 243, 248, 323, 328, 360, 368, 421, 467, 468, 486, 488, 515, 537, 549, 568...570, 573, 579, 630, 647, 683, 684, 799, 820, 821, 867, 885, 892...894, 896, 897, 917, 960, 961, 976, 987, 992...1000, 1004, 1012, 1091,

Chalcidoidea, allg.:

14, 35, 39, 43, 51, 53, 58, 75, 101, 122...125, 297, 382, 384, 411, 573, 664, 676...678, 713, 714, 934, 1011, 1013,

Chalcididae (insbes. *Brachymeria* sp., *Dirhinus* sp. u.a.):

16, 74, 96, 116, 127, 164, 182, 252, 300, 320, 323, 337, 412, 426, 434, 512, 807, 812, 820, 822, 839, 907, 972, 973, 980,

Pteromalidae

Muscidifurax raptor GIRAULT & SANDERS:

1, 2, 4...7, 29, 32, 40, 43, 51, 64...69, 75, 83, 97, 104, 113, 138, 139, 141, 145, 153, 170, 176, 184, 193, 202, 214, 216, 217, 230, 232...234, 236...240, 242, 245...247, 249, 250, 260, 261, 282, 302, 308, 314, 320, 324, 325, 347, 349, 386, 394, 399, 431, 432, 454, 455, 457, 469, 477, 485...488, 492, 494, 496, 497, 499, 500...502, 508...514, 516, 518...521, 524...527, 534...536, 538, 539, 541, 545, 557, 558, 561, 584...588, 592, 594, 596, 603...605, 610, 615, 628, 630, 633, 635, 640...644, 651...653, 694, 709, 715, 731, 732, 738, 741, 751, 768, 769, 773, 775, 776, 804, 813, 820...827, 829, 888...890, 917, 922, 930, 931, 952...954, 966, 972, 973, 975, 980, 989, 995, 1004, 1065, 1067, 1068, 1085,

Muscidifurax zaraptor KOGAN & LEGNER: 40, 51, 65, 67, 68, 101, 169, 202, 216, 232...234, 249, 332...334, 349, 477, 502, 512...514, 518...521, 524...529, 534, 536, 545, 561, 566, 567, 571, 586, 630, 641, 651...653, 711, 712, 715, 731, 732, 734, 737...741, 776, 813, 820, 821, 823, 1017, 1079...1082, 1084, 1086, 1089,

Muscidifurax sp. (*M. raptorellus* KOGAN & LEGNER, *M. raptoroidea* KOGAN & LEGNER, *M. uniraptor* Kogan & Legner): 40, 43, 202, 325, 347, 427, 502, 512, 516, 520, 521, 530...533, 535, 538...546, 566, 571, 594, 595, 630, 641, 839, 912, 922, 1054,

Nasonia vitripennis (WALKER):

13, 15, 17...21, 24, 30...33, 38, 39, 43, 45...47, 49, 50...54, 57, 58, 64...71, 76...86, 93, 94, 101, 105, 125, 129, 135, 146...154, 157, 166, 167, 174, 175, 178, 180, 185...188, 190...194, 197, 198, 204, 206, 207, 214, 218...224, 226, 228, 238, 240, 255, 263, 268, 269, 271, 274, 276, 277, 279, 288, 295...297, 302, 306, 320, 321, 338, 343, 344, 348, 365, 371...374, 381, 386, 402, 403, 407, 410, 412, 420, 428, 429, 431, 432, 438...449, 467, 468, 470...472, 475, 486, 488, 492, 494...497, 512, 527, 530, 531, 557, 562, 563, 573, 580, 586, 588, 593, 596, 598, 601, 602, 630, 639, 645, 646, 651, 659...661, 675, 682, 685...690, 695...698, 701, 703...705, 709, 716, 742, 751, 754...761, 770, 781...795, 798, 811, 815, 816, 820, 821, 825...827, 830, 838, 840...847, 850, 852...864, 869, 873...876, 909-911, 913...919, 926, 930, 937, 943, 947, 956, 963, 965, 972, 973, 977, 985, 986, 993, 995, 997, 1001, 1007, 1009, 1010, 1017, 1021...1026, 1035...1054, 1063, 1066, 1070...1082, 1084, 1086...1087, 1090, 1093,

Pachycropeoides vindemiae (RONDANI):

29, 38, 41, 54...59, 101, 125, 128, 141, 179, 193, 199, 202, 207, 214, 240, 259, 270, 271, 282, 301, 307, 324, 386, 406, 412, 485, 486, 488, 497, 499, 520, 527, 531, 566, 571, 603, 605, 615, 626, 630, 635, 665...667, 672, 681, 700, 703, 715, 732, 749, 750, 752, 812, 820...827, 829, 839, 890, 917, 931, 932, 942, 957...960, 963, 1000, 1004, 1017, 1065,

Spalangia cameroni PERKINS:

5, 51, 58, 64...68, 88, 97, 101, 110, 113, 114, 120, 121, 125, 140, 141, 171, 215, 239, 240, 300...302, 304, 311, 325, 332...334, 345...348, 408, 467...470, 477, 486...488, 492, 494, 496, 497, 500, 501, 505, 508, 510, 512, 513, 517, 520, 521, 527, 530, 586...588, 594...596, 604, 606, 630, 640...644, 651...653, 692, 709, 715, 717, 731, 732, 737, 738, 741, 775, 776, 804, 820...827, 829, 839, 883, 905, 942, 956, 972, 973, 980, 995, 1016, 1017, 1054, 1080...1084, 1086, 1087,

Spalangia endius WALKER:

1, 2, 5...7, 27, 29, 43, 51, 64...68, 87, 88, 97, 109, 113, 114, 120, 121, 140...142, 144, 158, 176, 259, 294, 300...302, 310, 316, 325, 340...432, 347, 349, 397, 469, 477, 485...488, 492, 494, 497, 499, 500, 508...514, 516...521, 525...531, 536, 547, 553, 557, 558, 564, 565, 571, 583, 586...588, 592, 594...596, 604, 605, 610, 617...620, 622...625, 627, 629...631, 633...636, 641, 651...653, 692, 694, 708, 709, 715, 732, 733, 741, 772...776, 804, 812, 820...824, 829, 839, 868, 889, 890, 922, 929...931, 942, 943, 964, 966, 972...974, 980, 983, 1008, 1016...1020, 1054, 1067, 1068, 1092,

Spalangia nigroaenia CURTIS, *S. nigra* LATREILLE, *S. nigripes* CURTIS:

1, 5, 13, 15, 17, 18, 64...68, 72, 78, 101, 106, 113, 114, 120, 121, 125, 140, 141, 144, 171, 181, 182, 184, 239, 240, 260, 261, 300...302, 311, 316, 320, 324, 325, 335, 340...342, 345...347, 366, 386, 412, 456, 457, 468, 477, 485...488, 492, 497, 499, 500, 501, 505, 508, 509, 512, 517, 520, 521, 527, 530, 587, 588, 594...596, 604, 605, 615, 630, 651, 662, 692, 703...705, 709, 715, 731, 732, 738, 741, 751, 762, 775, 776, 800, 801, 812, 817, 820...827, 829, 839, 878, 889...891, 907, 917, 922, 942, 943, 953, 954, 972, 975, 980, 1016, 1017, 1054, 1085,

Sonstige *Spalangia* sp.:

1, 5, 11, 12, 27, 35, 36, 38, 61, 64, 68, 75, 90, 98, 101, 113, 114, 120, 121, 125, 131, 136, 140, 141, 145, 201, 207, 214, 225, 230, 240, 260, 261, 272, 282, 324, 325, 345...347, 356, 431, 432, 461...464, 468, 482, 486, 488...490, 493, 498...501, 503, 505, 512, 517, 520, 521, 531, 534, 553, 561, 577, 603, 630, 692, 809, 820...822, 825, 827, 895, 897...901, 920, 922, 942, 953, 954, 963, 980, 984, 988, 1016,

Urolepis rufipes ASHMEAD, *U. maritima* (WALKER):

37, 67, 200, 214, 239, 240, 322, 333, 334, 356, 365, 657, 711, 736, 737, 882, 923...925,

Pteromalidae, sonstige Species:

9, 10, 12, 21, 26, 38, 41, 43, 51, 63, 113, 119, 125, 128, 137, 212...214, 318, 320, 324, 325, 335, 347, 365, 409, 425, 471, 488, 490, 499, 500, 505, 520, 521, 528, 529, 531, 630, 741, 751, 820, 839, 953, 954, 971, 1011, 1014, 1066, 1085, 1087, 1088,

Eulophidae (insbes. *Melittobia* sp.):

21, 39, 42...44, 48, 49, 51, 55, 56, 58, 183, 229, 312, 314, 320, 323, 473...476, 481, 568...570, 668, 669, 746...748, 848, 849, 851, 871, 903, 940, 961, 1004,

Encyrtidae, insbes. *Tachinaephagus zealandicus* ASHMEAD:

1, 8, 43, 58, 101, 142, 202, 216, 259, 313, 324, 355, 364, 431, 432, 453, 484, 486, 488, 497, 499, 500, 511, 512, 514, 516, 518, 520, 527, 529, 555, 558, 603, 630, 641, 674, 691, 693, 694, 805, 812, 817, 839, 889, 931, 933, 946, 972, 1017, 1054, 1056...1058,

Ichneumonidae (*Atractodes* sp., *Diplazon* sp., *Gelis* sp., *Phygadeuon* sp., *Rhembobius* sp. u.a.):

21, 59, 171, 201, 240, 244, 253, 320, 336, 347, 350...352, 356, 375, 386, 422...424, 467, 468, 486, 488, 492, 497, 499, 500, 508, 509, 514, 520, 557, 590, 591, 640, 642, 649, 670, 744, 753...757, 884, 922, 927, 938, 943, 971, 1066, 1085,

Braconidae (*Alysia* sp., *Aphaereta* sp., *Opius* sp. u.a.):

1, 24, 94, 95, 103, 107, 111, 113, 138, 139, 141, 159...163, 171, 200, 206, 228, 240, 260...262, 264...267, 299, 320, 329, 346, 347, 354...356, 369, 370, 376...380, 386, 391...393, 404, 437, 467, 472, 478, 479, 486, 488, 497, 512, 536, 552...554, 561, 574...576, 582, 588, 590, 591, 599, 604, 637, 654, 655, 673, 699, 751, 771, 777, 831, 836, 837, 912, 938, 945, 950, 952...955, 968...971, 975, 990, 991, 994, 997, 1029, 1032, 1054, 1055, 1059, 1062, 1085, 1094...1099,

Cynipoidea: Figitidae:

107, 110, 113, 171, 240, 258, 260, 261, 320, 345...347, 354, 363, 401, 470, 486, 488, 497, 499, 531, 561, 590, 591, 650, 778, 780, 878, 943, 950, 952...954, 971, 975, 979, 1030,

Cynipoidea: Eucolidae:

99, 100, 107, 110, 113, 141, 155, 156, 171, 200, 201, 260, 261, 346, 354, 356, 401, 435, 482, 486, 488, 498, 506, 561, 590, 591, 680, 751, 778...780, 814, 878, 912, 943, 952...954, 972, 973, 975, 979, 1030,

Proctotrupoidea: Diapriidae:

1, 73, 90, 113, 128, 130, 141, 171, 235, 240, 244, 259...261, 298, 320, 323...325, 340, 346, 348, 356, 386, 465, 467, 468, 470, 473...475, 485, 486, 488...490, 497, 499, 501, 505, 509, 520, 531, 561, 565, 590, 591, 613, 614, 648, 671, 817, 820, 822, 943, 949, 953, 967, 972,

Wirtre (hosts)

Syrphidae, Stratiomyidae, Tephritidae:

130, 244, 499, 514, 604, 657, 709, 763, 768, 769, 967, 972,

Drosophilidae:

128, 665...667, 680, 681, 699, 771, 804, 814, 899, 900, 901,

Muscidae, allgemein:

94, 96, 102, 328, 411, 412, 513, 515, 522, 561, 655, 707, 710, 804, 931, 962, 963, 972, 976, 978,

Fannia sp. und *Anthomyiidae* (*Fucellia* sp., *Phorbia* sp. u.a.):

26, 96, 98, 289, 397, 435, 486, 487, 492, 497, 499, 508, 509, 512, 514, 518, 527...530, 536, 537, 548, 557, 558, 561, 567, 575, 604, 649, 694, 709, 749, 750, 752, 766, 767, 825, 828, 831, 872, 927, 932, 933, 935, 938, 971, 1002, 1005, 1032, 1033, 1066, 1085,

Muscina sp., *Ophyra* sp., *Hydrotaea* sp.:

401, 486, 487, 492, 499, 509, 514, 518, 604, 709, 750, 752, 809, 810, 825, 891,

Stomoxys sp.:

106, 131, 141, 145, 207, 310, 324, 325, 365, 408, 456, 486, 497, 499, 500, 505, 509, 512, 514, 518, 527...529, 537, 583, 584, 586, 592, 594...596, 603, 605, 606, 611, 614, 616, 623, 627, 629, 640, 706, 708, 709, 712, 731...733, 735...738, 740, 749, 752, 762, 801, 817, 828, 869, 921, 922, 930, 983, 984, 1067, 1068,

Haematobia sp., *Orthelia* sp.:

1, 11, 27, 61, 62, 87, 106, 140, 141, 144, 145, 201, 205, 227, 256, 259, 340...342, 345, 346, 385, 512, 523, 530, 537, 553, 612, 656, 715, 718, 866, 868, 869, 878, 920, 939, 953, 954, 975, 988, 1002, 1006, 1064, 1065,

Musca domestica L.:

1...3, 5, 6, 8, 26, 30...33, 69, 72, 93, 106, 129, 131, 140...142, 145, 147, 150, 151, 153, 154, 157, 158, 165, 175, 182, 191, 192, 194, 202, 233, 240, 243, 249, 251, 276, 277, 337, 361, 363...365, 401, 408, 418, 430, 431, 454...457, 477...479, 485...488, 492, 494...497, 499...501, 505, 508, 509, 512, 514, 517, 518, 521, 524, 525, 527...530, 536, 537, 547, 553, 562, 563, 565, 571, 575, 583, 584, 586...588, 592, 594...596, 604, 611, 615...620, 622, 623, 625...636, 640...644, 648, 651...653, 659...661, 688, 690, 692, 694, 700, 706, 707, 709...712, 731...741, 749, 750, 752, 754...761, 764, 765, 770, 772...775, 801, 812, 813, 816, 822...828, 831, 839, 882, 883, 888...891, 900, 905...908, 914, 916, 918, 919, 923...926, 929, 930, 943, 947, 948, 956, 964, 966, 973, 984, 985, 989, 995, 1018...1020, 1027, 1028, 1034, 1069...1084, 1086...1089, 1091, 1093,

Musca sp., insbes. *Musca autumnalis* DE GEER, *Musca sorbens* WIEDEMANN:

23, 92, 103, 107, 138, 139, 209, 299, 338, 354, 358, 359, 379, 385, 390, 391, 393, 417, 418, 426, 436, 437, 499, 512, 516, 523, 530, 537, 613, 751, 912, 950...952, 954, 955, 974, 975, 1060...1062, 1085,

Calliphoridae, allgemein:

19, 175, 486, 492, 499, 552, 554, 561, 564, 673, 674, 804, 806...808, 812, 828, 851, 861, 917...919, 926, 943, 972, 1094,

Calliphora sp.:

21, 24, 159, 162, 163, 188, 253, 282, 290...293, 403, 420, 499, 512, 681, 692, 709, 729, 730, 770, 859, 879, 904, 906, 986, 990, 991, 994, 1013, 1066, 1069, 1095, 1098,

Chrysomya sp., *Protocalliphora* sp., *Protophormia* sp.:

20, 223, 224, 226, 313, 410, 516, 675, 695, 696, 742, 859, 869, 973, 1036, 1066,

Lucilia sp. (s.l.):

8, 129, 148, 149, 152, 175, 189, 289, 343, 344, 355, 364, 369, 514, 516, 518, 598, 637, 755, 757, 770, 832, 833, 916, 926, 973, 977, 1010, 1055, 1059, 1094,

Sarcophagidae:

8, 96, 164, 252, 255, 337, 364, 371, 401, 409, 475, 509, 516, 553, 561, 608, 805, 812, 828, 830, 859, 860, 907, 937, 943, 945, 972, 975, 990, 1021, 1025, 1030, 1062, 1085,

Glossina sp.:

312, 323, 473...476, 481, 515, 568...570, 668, 669, 848, 849, 903, 940,

Chloropidae:

89, 90, 482...484, 489...491, 493, 498, 501, 503, 506, 530, 650,

Sonstige Brachycera:

212, 298, 461...464, 565, 577, 623, 666, 667, 796, 881, 897, 898,

Systematik, Taxonomie, Bestimmungsschlüssel (systematics, taxonomy, keys):

26, 35, 37, 38, 56, 116, 119...121, 127, 184, 199, 218, 258, 264, 267, 294...297, 306...308, 310, 311, 314, 316, 318, 336, 365, 375, 392, 423, 425, 427, 434, 451, 465, 471, 502, 520, 550, 551, 556, 576, 582, 585, 609, 647, 671, 676, 678, 684, 693, 713, 714, 717, 744, 777...780, 799, 801, 805, 820, 821, 867, 870, 885, 887, 933, 934, 969, 970, 1006...1008, 1011, 1029, 1038,

Anatomie, Morphologie, Histologie (anatomy, morphology, histology):

15, 70, 75, 135, 174, 180, 181, 186, 188, 208, 219, 228, 276, 277, 289, 302, 316, 364, 412, 433, 440...444, 447, 573, 601, 703, 720, 748, 782...787, 798, 803, 820, 821, 831, 838, 913, 965, 970, 1013, 1038, 1053,

Physiology, Biochemie (physiology, biochemistry):

188, 263, 268, 372, 374, 427, 447, 538, 539, 658, 721, 723, 724, 726...728, 776, 783, 785, 786, 791, 811, 844, 895, 956...960, 965, 995, 997, 1041, 1043,

Sinnesphysiologie (sense physiology):

53, 75, 220, 290...292, 601, 722, 913, 929, 987, 1035, 1053,

Ernährung, Stoffwechsel (nutrition, metabolism):

138, 187, 219, 233, 269, 376, 377, 382, 445, 478, 479, 496, 553, 618, 646, 664, 757, 767, 787, 925, 956...960, 995, 997, 1038, 1071, 1077,

Genetik, Evolution (genetics, evolution):

39, 55, 85, 97, 104, 146, 148, 152, 154, 247, 250, 314, 428, 429, 510, 524, 534, 535, 538...546, 639, 682, 690, 697, 701, 716, 753, 754, 756, 759, 761, 788...790, 793...795, 840...843, 845...847, 895, 909...911, 926, 1022, 1037...1052,

Biologie, insbes. Entwicklung, Reproduktion, Geschlechtsverhältnis (biology, especially development, reproduction, sex ratio):

6, 7, 17, 24, 46, 47, 49, 70...72, 85, 101, 105, 114, 131, 135, 140, 145, 147, 149...156, 164, 166, 167, 169, 178, 179, 181, 183, 187, 190, 192, 204, 206...208, 219, 228, 233...236, 242, 245...250, 263, 269...271, 274, 276, 277, 279, 282, 288, 289, 306, 320, 340, 343, 344, 359, 364, 365, 370...372, 374, 378, 379, 392, 403, 412, 433, 438...494, 496...498, 451, 454...457, 493, 494, 496, 498, 499, 501...503, 510, 519, 521, 524...526, 532, 533, 535, 539...546, 567, 571, 585, 593, 606, 618, 620, 626...628, 634, 645, 646, 649, 660, 661, 664, 681, 685, 686, 690, 691, 693, 696, 697, 701, 703...705, 729, 730, 736, 748, 749, 755...757, 762, 766, 767, 770, 771, 798, 800, 801, 803, 815, 820, 826, 831, 848...850, 859, 871, 874, 885, 888, 890, 891, 899, 909...911, 914, 916, 918, 919, 923, 924, 928, 937, 942, 945, 948, 965, 967, 982, 986, 989, 994, 997, 1005, 1009, 1010, 1019, 1021...1026, 1034, 1038, 1056...1058, 1061, 1070...1073, 1075...1079, 1081...1084, 1086...1089,

Wirtsspektrum (spectrum of potential hosts):

14, 20, 25, 125, 200, 208, 213, 214, 235, 241, 262, 306, 308, 328, 360, 380, 392, 404, 495, 497, 537, 593, 595, 607, 655, 681, 693, 705, 713, 869, 884, 892, 942, 946, 978, 980, 982, 997, 1001, 1038, 1063, 1090,

Parasitierungsrate, einschließl. Wirtsschädigung, Populationsdynamik, Abundanzbestimmung (parasitism rate, incl. host destruction, population dynamics, estimation of population density (abundance)):

64, 72, 139...142, 151...153, 170, 171, 211, 236, 239, 244, 272, 301, 320, 332, 345, 354, 368, 379, 389, 392, 450, 460, 470, 477, 485, 487, 490, 494, 497...499, 501, 505, 508, 510, 513, 514, 516, 517, 521, 524, 526, 537, 539, 542...546, 557, 565, 571, 584, 585, 587, 588, 592, 594...596, 603, 615, 617, 619, 620, 623, 627...630, 633, 634, 640...644, 651, 659...661, 687, 690, 692, 694, 700, 706, 709, 712, 729...733, 735...738, 740, 741, 749, 750, 753...759, 781, 820, 822, 824...827, 829, 889, 896, 916, 921...923, 925, 927, 930, 932, 950, 952...955, 966, 973...975, 980, 990, 1017, 1019, 1020, 1036, 1061, 1090, 1093,

Parasitoid-Wirtsbeziehungen, einschließlich Wirtslokalisierung, Parasitierungsverhalten, Einfluß der Wirtsdichte u.a. (parasitoid-host-relationships, including host location, parasitisation behaviour of parasitoids, influence of host density et al.):

2, 3, 19, 22, 31...33, 85, 93, 95, 129, 138, 145, 147...154, 157, 159...163, 169, 175, 190...192, 194, 204, 208, 220...222, 236, 252, 268, 289...293, 299, 342, 358, 369...371, 403, 406, 407, 420, 433, 448, 449, 457, 472, 478, 479, 490, 494...496, 498, 501, 503, 506, 508, 521, 549, 555, 562, 563, 566, 567, 571, 586, 606, 618, 620, 626...628, 634, 652, 653, 659, 660, 662, 664, 672, 681, 685, 688, 690, 693, 697, 711, 729, 730, 739, 745, 753...759, 761, 766...769, 772...775, 813, 859, 868, 872, 876, 879, 885, 891, 900, 901, 914, 916, 918, 919, 926, 929, 947, 956, 961, 977, 982, 985...987, 989, 990, 992...995, 997, 999, 1000, 1010, 1018...1020, 1061...1063, 1069...1084, 1086...1089, 1093, 1095, 1098,

Verhalten, allgemein sowie Konkurrenzverhalten, Superparasitismus, Multiparasitismus... (Behaviour, generally as well as competitive behaviour, superparasitism, multiparasitism...):

101, 105, 169, 457, 531, 566, 652, 660, 664, 693, 711, 766, 768, 772...775, 831, 876, 890, 898, 901, 995, 998, 999, 1025, 1038, 1059, 1073, 1075, 1076, 1078, 1084, 1086...1088,

Sexualverhalten (sexual behaviour):

40...45, 47...58, 76...86, 169, 185, 229, 321, 372, 373, 402, 419, 433, 448, 538, 579, 602, 646, 658, 693, 720...728, 766, 838, 1035, 1038,

Orientierungsverhalten, Habitatlokalisation sowie aktive und passive Ausbreitung (orientation behaviour, habitat location, active and passive dispersal):

12...14, 18, 222, 342, 421, 459, 467, 521, 530, 531, 537, 593, 872, 929, 987, 996, 997, 999, 1038, 1069,

Ökologie, allg. (ecology, generally):

3, 9, 10, 14, 20, 21, 24, 101, 128, 191, 194, 320, 332, 357, 381, 521, 531, 537, 562, 571, 633, 662, 687, 691, 693, 699, 754, 756, 758, 759, 800, 806, 823, 825, 915, 922, 997, 1000, 1018,

Einfluß physikalischer Parameter (Temperatur, rel. Feuchte, Licht, Strahlung) (influence of physical parameters (temperature, relative humidity, light, radiation)):

6, 7, 13...15, 17...19, 57, 166, 167, 193, 237, 242, 245, 274, 289, 332...334, 428, 429, 490, 491, 493, 519, 521, 525, 533, 571, 584, 593, 606, 618, 624, 635, 636, 639, 645, 646, 681, 739, 749, 750, 766, 788...790, 793...795, 823, 840, 841, 853...864, 873...876, 890, 891, 895, 899, 923...925, 966, 974, 990, 991, 1056...1059, 1069, 1096, 1097, 1099...1101,

Diapause, Überwinterung (diapause, hibernation):

228, 272, 332...334, 517, 571, 593, 689, 731, 800, 850, 852...856, 859, 860, 873, 875, 876, 893...895, 986, 990, 991, 1009, 1038, 1073, 1077, 1078, 1096, 1097, 1099...1101,

Manuelle Techniken und Verfahren, Bestimmung der Parasitierung, mathematische Modelle (manual techniques and procedures, detection of parasitism, mathematical models):

368, 389, 537, 547, 587, 594, 617, 619, 625, 635, 638, 651, 670, 683, 712, 734, 735, 737, 738, 740, 767, 822, 824, 826, 829, 896, 922, 925, 937, 987, 1018...1020, 1024,

Zuchttechniken und Massenzucht (rearing techniques and mass rearing):

61, 85, 94, 97, 105, 138, 148, 149, 158, 202, 231, 233, 237, 245, 247, 250, 273, 279, 338, 361, 362, 365, 378...380, 417, 418, 454, 455, 463, 477, 478, 510, 519, 524, 525, 534, 539, 540, 542, 547, 567, 606, 610, 617...620, 624, 625, 630...633, 635, 636, 638, 649, 670, 693, 695, 696, 734, 737, 743, 762, 767, 792, 820, 851, 892, 899, 902, 924, 957...960, 999, 1000, 1004, 1032, 1033, 1051,

Einsatz zur biologischen Bekämpfung (use for biological control):

23, 27, 28, 61, 65...68, 87, 89, 91, 92, 94, 97, 98, 102, 142, 144, 176, 177, 195, 202, 205, 209, 216, 230, 239, 249, 279, 314, 323...325, 340, 359, 385, 391, 393, 399, 430, 432, 469, 470, 473...477, 487, 492, 493, 500, 504, 511, 512, 514...516, 518, 522, 523, 527...529, 536, 554, 558, 559, 571, 577, 583...585, 592, 594, 596, 598, 599, 603, 605, 610, 616...619, 621...623, 629, 630, 633, 634, 637, 641, 644, 668, 694, 700, 707, 709, 710, 712, 733, 737, 740, 749, 750, 752, 761, 802, 804, 817, 820, 824, 825, 827, 829, 839, 867, 886, 889, 896, 903, 905, 907, 908, 917, 930, 931, 940, 1017...1020, 1054, 1055, 1064, 1091, 1092,

Einsatz in der integrierten Bekämpfung (use in the integrated control):

29, 34, 63...65, 67, 68, 143, 217, 275, 349, 367, 516, 518, 592, 611, 643, 706...709, 743, 760, 828, 839, 889, 1067, 1068,

Toxizität und Nebenwirkung von Pestiziden auf Parasitoide (toxicity and side-effects of pesticides to parasitoids):

4, 109, 197, 198, 217, 255, 315, 350...352, 450, 557, 670, 695, 709, 767, 830, 833, 834, 882, 883, 905, 1067, 1068,

Laboruntersuchungen (laboratory research):

2, 253, 620, 755, 758, 781, 833, 834, 882, 883, 888, 925, 981, 1062, 1093,

Tierproduktionsanlagen, allgemein sowie Dung, Silage u.a. (animal facilities generally as well as dung, silage et al.):

29, 63, 66...68, 240, 241, 275, 467...470, 504, 509, 630, 640, 641, 643, 644, 731, 732, 735, 738,

Rinderhaltung (cattle farms):

67, 143, 300, 301, 347, 436, 467, 594...596, 611, 619, 623, 629, 640...642, 712, 732, 733, 736, 737, 740, 741, 749, 820, 822, 836, 837, 890, 922, 923, 930, 972...974,

Schweinehaltung (piggeries):

67, 170, 615, 640...642, 820, 822, 828, 839, 972,

Geflügelhaltung (poultry production facilities):

1, 5, 28, 34, 54...58, 130, 140, 142, 176, 239, 349, 367, 394, 426, 477, 487, 492, 508, 513, 514, 518, 530, 557, 558, 584, 585, 587, 588, 604, 611, 617, 618, 622, 633, 634, 651, 694, 709, 749, 750, 752, 775, 804, 820, 822...829, 839, 889, 923, 964, 967, 972, 973, 1092,

Weideflächen (pastures):

11, 103, 110...113, 171, 205, 256, 260, 261, 339, 347, 354, 393, 437, 459, 460, 530, 561, 589...591, 594, 595, 876,

878, 912, 917, 921, 922, 952, 953, 955, 975, 1030, 1085,

Sonstige Habitate (Vogelnester, Nistkästen, Aas, landwirtschaftliche Flächen u.a.) (other habitats (bird's nests, nest boxes, carrion, agricultural areas et al.):

10, 215, 228, 407, 517, 580, 581, 592, 675, 692, 730, 742, 927, 935, 938, 1036, 1066,

Geographische Verbreitung, allgemein (geographical distribution generally):

251, 259, 307, 308, 325, 451, 486, 488,

Faunistische Untersuchungen, Nachweise und Freilassungsversuche von Parasitoiden (faunistic researches, monitoring and releasing experiments of parasitoids) in:

Europa (Europe):

9...11, 16, 59, 88, 116, 119, 123...125, 170, 177, 223...225, 240, 241, 244, 249, 252, 258, 264...266, 289, 318, 335, 336, 339, 386, 397, 401, 422...424, 459...462, 467, 468, 470, 499, 550, 551, 556, 640...644, 675, 714, 730, 742, 763...765, 770, 796, 809, 870, 884, 925, 928, 929, 949, 978...982, 1002, 1011, 1014, 1066,

Asien, einschließlich europäischer Teil der UdSSR (Asia including European part of USSR):

98...100, 122, 127, 154, 165, 182, 212, 214, 289, 300, 301, 404, 409, 426, 456, 648, 662, 676...678, 812, 839, 934, 942, 943, 968, 970, 976, 1090, 1094,

Nord- und Mittelamerika (North and Middle America):

1, 5, 8, 27, 35, 36, 68, 73, 87, 90, 103, 107, 110...113, 136...138, 140, 141, 171, 177, 201, 215, 227, 260...262, 289, 345...347, 354, 385, 395, 396, 407, 436, 437, 451, 453, 482...486, 489, 492, 497, 502, 504, 509, 517, 523, 532, 559, 561, 565, 575, 576, 588...592, 594...596, 604, 607, 609, 615, 630, 647, 651, 657, 692, 709, 715, 718, 731, 732, 736, 741, 808, 822...826, 836, 837, 876, 878, 887, 889, 890, 897, 912, 920, 923, 931, 932, 951...955, 966, 967, 971...975, 988, 1012, 1016, 1029, 1030, 1060, 1064, 1065, 1085,

Südamerika (South America):

38, 121, 131, 142, 497, 502, 564, 804, 983,

Afrika (Africa):

69, 96, 121, 256, 323...325, 348, 386, 394, 434, 481, 499, 505, 814, 917,

Australien und Ozeanien (Australia and Oceania):

62, 74, 144, 183, 184, 205, 282, 340...342, 355, 391, 393, 411, 412, 499, 516, 599, 637, 673, 674, 805, 904...907, 933, 984, 1055, 1059,

Übersichten und Bibliographien (Reviews and bibliographies):

36, 38, 43, 58, 67, 75, 91, 101, 112, 120, 129, 137, 168, 184, 195, 206, 241, 251, 264, 266, 318, 328, 363, 408, 423, 451, 458, 465, 466, 497, 505, 512, 515, 520, 556, 559, 609, 612...614, 647, 707, 710, 713, 714, 777, 802, 870, 886, 934, 960, 968, 992...1000, 1004, 1017, 1028, 1038, 1054, 1055,