

Maria-Dolors Piulachs

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91
papers

3,097
citations

34
h-index

52
g-index

92
ext. papers

3,508
ext. citations

3.7
avg, IF

4.93
L-index

#	Paper	IF	Citations
91	The mevalonate pathway and the synthesis of juvenile hormone in insects. <i>Annual Review of Entomology</i> , 2005 , 50, 181-99	21.8	285
90	The vitellogenin of the honey bee, <i>Apis mellifera</i> : structural analysis of the cDNA and expression studies. <i>Insect Biochemistry and Molecular Biology</i> , 2003 , 33, 459-65	4.5	131
89	Hemimetabolous genomes reveal molecular basis of termite eusociality. <i>Nature Ecology and Evolution</i> , 2018 , 2, 557-566	12.3	120
88	Vitellogenin expression in queen ovaries and in larvae of both sexes of <i>Apis mellifera</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 2005 , 59, 211-8	2.3	107
87	Systemic RNAi of the cockroach vitellogenin receptor results in a phenotype similar to that of the <i>Drosophila</i> <i>yolkless</i> mutant. <i>FEBS Journal</i> , 2006 , 273, 325-35	5.7	98
86	Allatostatic neuropeptides from the cockroach <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). Identification, immunolocalization and activity. <i>Regulatory Peptides</i> , 1994 , 53, 237-47		98
85	Screening of antifeedant activity in brain extracts led to the identification of sulfakinin as a satiety promoter in the German cockroach. Are arthropod sulfakinins homologous to vertebrate gastrins-cholecystokinins?. <i>FEBS Journal</i> , 2001 , 268, 5824-30		86
84	Insect antifeedant activity of clerodane diterpenoids against larvae of <i>Spodoptera littoralis</i> (Boisd.) (Lepidoptera). <i>Journal of Chemical Ecology</i> , 1985 , 11, 1439-45	2.7	81
83	Evolution on a shaky piece of Gondwana: is local endemism recent in New Caledonia?. <i>Cladistics</i> , 2005 , 21, 2-7	3.5	76
82	Deep sequencing of organ- and stage-specific microRNAs in the evolutionarily basal insect <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). <i>PLoS ONE</i> , 2011 , 6, e19350	3.7	76
81	Inhibition of vitellogenin production by allatostatin in the German cockroach. <i>Molecular and Cellular Endocrinology</i> , 1996 , 121, 191-6	4.4	70
80	Ecdysone signalling and ovarian development in insects: from stem cells to ovarian follicle formation. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2015 , 1849, 181-6	6	65
79	An experimental test of the role of environmental temperature variability on ectotherm molecular, physiological and life-history traits: implications for global warming. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2011 , 159, 242-6	2.6	64
78	In vitro biosynthesis of JH III by the corpora allata of adult females of <i>Blattella germanica</i> (L.). <i>Insect Biochemistry</i> , 1987 , 17, 1007-1010		64
77	Expression analysis of putative vitellogenin and lipophorin receptors in honey bee (<i>Apis mellifera</i> L.) queens and workers. <i>Journal of Insect Physiology</i> , 2008 , 54, 1138-47	2.4	59
76	Key roles of the Broad-Complex gene in insect embryogenesis. <i>Insect Biochemistry and Molecular Biology</i> , 2010 , 40, 468-75	4.5	58
75	Juvenile hormone titer versus juvenile hormone synthesis in female nymphs and adults of the German cockroach, <i>Blattella germanica</i> . <i>Journal of Insect Science</i> , 2006 , 6, 1-7	2	56

74	Quantity does matter. Juvenile hormone and the onset of vitellogenesis in the German cockroach. <i>Insect Biochemistry and Molecular Biology</i> , 2003 , 33, 1219-25	4.5	54
73	RNAi of ace1 and ace2 in <i>Blattella germanica</i> reveals their differential contribution to acetylcholinesterase activity and sensitivity to insecticides. <i>Insect Biochemistry and Molecular Biology</i> , 2009 , 39, 913-9	4.5	52
72	The evolutionary transition from subsocial to eusocial behaviour in Dictyoptera: phylogenetic evidence for modification of the "shift-in-dependent-care" hypothesis with a new subsocial cockroach. <i>Molecular Phylogenetics and Evolution</i> , 2007 , 43, 616-26	4.1	52
71	Fast induction of vitellogenin gene expression by juvenile hormone III in the cockroach <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). <i>Insect Biochemistry and Molecular Biology</i> , 1999 , 29, 821-7	4.5	51
70	Structural and RNAi characterization of the German cockroach lipophorin receptor, and the evolutionary relationships of lipoprotein receptors. <i>BMC Molecular Biology</i> , 2007 , 8, 53	4.5	49
69	Allatostatin gene expression in brain and midgut, and activity of synthetic allatostatins on feeding-related processes in the cockroach <i>Blattella germanica</i> . <i>Regulatory Peptides</i> , 2003 , 115, 171-7		49
68	Induction of vitellogenin gene transcription in vitro by juvenile hormone in <i>Blattella germanica</i> . <i>Molecular and Cellular Endocrinology</i> , 2001 , 183, 93-100	4.4	45
67	A novel GATA factor transcriptionally represses yolk protein precursor genes in the mosquito <i>Aedes aegypti</i> via interaction with the CtBP corepressor. <i>Molecular and Cellular Biology</i> , 2001 , 21, 164-74 ^{4.8}		42
66	Patterns of haemolymph vitellogenin and ovarian vitellin in the German cockroach, and the role of Juvenile Hormone. <i>Physiological Entomology</i> , 1995 , 20, 59-65	1.9	40
65	Identifying genes related to choriogenesis in insect panoistic ovaries by Suppression Subtractive Hybridization. <i>BMC Genomics</i> , 2009 , 10, 206	4.5	39
64	Localization of allatostatin-immunoreactive material in the central nervous system, stomatogastric nervous system, and gut of the cockroach <i>Blattella germanica</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 1998 , 37, 269-82	2.3	38
63	Conservation of fruitlessSrole as master regulator of male courtship behaviour from cockroaches to flies. <i>Development Genes and Evolution</i> , 2011 , 221, 43-8	1.8	36
62	The cockroach <i>Blattella germanica</i> obtains nitrogen from uric acid through a metabolic pathway shared with its bacterial endosymbiont. <i>Biology Letters</i> , 2014 , 10,	3.6	35
61	Molecular cloning, developmental pattern and tissue expression of 3-hydroxy-3-methylglutaryl coenzyme A reductase of the cockroach <i>Blattella germanica</i> . <i>FEBS Journal</i> , 1993 , 213, 233-41		35
60	Feeding and activation of corpora allata in the cockroach <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). <i>Journal of Insect Physiology</i> , 1997 , 44, 31-38	2.4	34
59	Modulation of cardiac rhythm by allatostatins in the cockroach <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). <i>Journal of Insect Physiology</i> , 1999 , 45, 1057-1064	2.4	34
58	Ovarian ecdysteroid levels and basal oöyte development during maturation in the cockroach <i>Blattella germanica</i> (L.). <i>Journal of Insect Physiology</i> , 1992 , 38, 339-348	2.4	34
57	The microRNA toolkit of insects. <i>Scientific Reports</i> , 2016 , 6, 37736	4.9	32

56	Isolation and sequence of a partial vitellogenin cDNA from the cockroach, <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae), and characterization of the vitellogenin gene expression. <i>Archives of Insect Biochemistry and Physiology</i> , 1998 , 38, 137-46	2.3	28
55	Mitochondrial targeting of farnesyl diphosphate synthase is a widespread phenomenon in eukaryotes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2007 , 1773, 419-26	4.9	28
54	3-Hydroxy-3-methylglutaryl-coenzyme-A synthase from <i>Blattella germanica</i> . Cloning, expression, developmental pattern and tissue expression. <i>FEBS Journal</i> , 1993 , 217, 691-9		28
53	What does <i>Cryptocercus kyebangensis</i> , n.sp. (Dictyoptera: Blattaria: Polyphagidae) from Korea reveal about <i>Cryptocercus</i> evolution? A study in morphology, molecular phylogeny, and chemistry of tergal glands. <i>Proceedings of the Academy of Natural Sciences of Philadelphia</i> , 2001 , 151, 61-79	1.1	26
52	Juvenile Hormone inhibition in corpora allata from ovariectomized <i>Blattella germanica</i> . <i>Physiological Entomology</i> , 1994 , 19, 342-348	1.9	26
51	Comparative analysis of miRNA expression during the development of insects of different metamorphosis modes and germ-band types. <i>BMC Genomics</i> , 2017 , 18, 774	4.5	25
50	MicroRNA signatures characterizing caste-independent ovarian activity in queen and worker honeybees (<i>Apis mellifera</i> L.). <i>Insect Molecular Biology</i> , 2016 , 25, 216-26	3.4	25
49	Different Bla-g T cell antigens dominate responses in asthma versus rhinitis subjects. <i>Clinical and Experimental Allergy</i> , 2015 , 45, 1856-67	4.1	24
48	Identification and functional characterization of an ovarian aquaporin from the cockroach <i>Blattella germanica</i> L. (Dictyoptera, Blattellidae). <i>Journal of Experimental Biology</i> , 2011 , 214, 3630-8	3	24
47	Induction of choriogenesis by 20-hydroxyecdysone in the German cockroach. <i>Tissue and Cell</i> , 1993 , 25, 195-204	2.7	23
46	Juvenile hormone production and accessory reproductive gland development during sexual maturation of male <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1992 , 102, 477-480		22
45	Identification and characterization of a fatty acyl reductase from a <i>Spodoptera littoralis</i> female gland involved in pheromone biosynthesis. <i>Insect Molecular Biology</i> , 2015 , 24, 82-92	3.4	19
44	Comparative Transcriptomics in Two Extreme Neopterans Reveals General Trends in the Evolution of Modern Insects. <i>iScience</i> , 2018 , 4, 164-179	6.1	18
43	Dicer-1 is a key enzyme in the regulation of oogenesis in panoistic ovaries. <i>Biology of the Cell</i> , 2012 , 104, 452-61	3.5	18
42	Ketomethylene and methyleneamino pseudopeptide analogues of insect allatostatins inhibit juvenile hormone and vitellogenin production in the cockroach <i>Blattella germanica</i> . <i>Insect Biochemistry and Molecular Biology</i> , 1997 , 27, 851-8	4.5	18
41	Vitellogenin of <i>Blattella germanica</i> (L.) (Dictyoptera, blattellidae): nucleotide sequence of the cDNA and analysis of the protein primary structure. <i>Archives of Insect Biochemistry and Physiology</i> , 2000 , 45, 1-11	2.3	18
40	Coordinated expression and activity of 3-hydroxy-3-methylglutaryl coenzyme A synthase and reductase in the fat body of <i>Blattella germanica</i> (L.) during vitellogenesis. <i>Insect Biochemistry and Molecular Biology</i> , 1996 , 26, 837-43	4.5	18
39	Differential stimulation of juvenile hormone III biosynthesis induced by mevalonate and mevalonolactone in <i>Blattella germanica</i> (L.). <i>Journal of Insect Physiology</i> , 1992 , 38, 555-560	2.4	18

38	Ultrastructural changes induced by precocene II and 3,4-dihydroprecocene II in the corpora allata of <i>Blattella germanica</i> . <i>Cell and Tissue Research</i> , 1989 , 258, 91	4.2	18
37	<i>Blattella germanica</i> has two HMG-CoA synthase genes. Both are regulated in the ovary during the gonadotrophic cycle. <i>Journal of Biological Chemistry</i> , 1994 , 269, 11707-13	5.4	18
36	Insect MicroRNAs 2012 , 30-56		15
35	Biogeographic origin and thermal acclimation interact to determine survival and hsp90 expression in <i>Drosophila</i> species submitted to thermal stress. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012 , 162, 391-6	2.6	15
34	Citrus, a key insect eggshell protein. <i>Insect Biochemistry and Molecular Biology</i> , 2011 , 41, 101-8	4.5	15
33	Effects of hypocholesterolaemic agents on the expression and activity of 3-hydroxy-3-methylglutaryl-CoA reductase in the fat body of the German cockroach. <i>Archives of Insect Biochemistry and Physiology</i> , 2002 , 49, 177-86	2.3	15
32	Inhibitors of 3-hydroxy-3-methylglutaryl-CoA reductase lower fecundity in the German cockroach: correlation between the effects on fecundity in vivo with the inhibition of enzymatic activity in embryo cells. <i>Pest Management Science</i> , 2003 , 59, 1111-7	4.6	15
31	Production and extraovarian processing of vitellogenin in ovariectomized <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). <i>Journal of Insect Physiology</i> , 1996 , 42, 101-105	2.4	15
30	Brownie, a gene involved in building complex respiratory devices in insect eggshells. <i>PLoS ONE</i> , 2009 , 4, e8353	3.7	14
29	Determination of allatostatin levels in relation to the gonadotropic cycle in the female of <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). <i>Physiological Entomology</i> , 1999 , 24, 213-219	1.9	14
28	Production of vitellogenin in vitro by the periovaric fat body of <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). <i>Invertebrate Reproduction and Development</i> , 1995 , 28, 171-176	0.7	14
27	The Notch pathway regulates both the proliferation and differentiation of follicular cells in the panoistic ovary of <i>Blattella germanica</i> . <i>Open Biology</i> , 2016 , 6, 150197	7	13
26	Expression and activity of 3-hydroxy-3-methylglutaryl-CoA synthase and reductase in the fat body of ovariectomized and allatectomized <i>Blattella germanica</i> . <i>Physiological Entomology</i> , 1997 , 22, 6-12	1.9	12
25	Expansions of key protein families in the German cockroach highlight the molecular basis of its remarkable success as a global indoor pest. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2018 , 330, 254-264	1.8	11
24	Conserved association of Argonaute 1 and 2 proteins with miRNA and siRNA pathways throughout insect evolution, from cockroaches to flies. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2018 , 1861, 554-560	6	10
23	RNAi reveals the key role of Nervana 1 in cockroach oogenesis and embryo development. <i>Insect Biochemistry and Molecular Biology</i> , 2013 , 43, 178-88	4.5	10
22	Unlike in <i>Drosophila</i> Meroistic Ovaries, hippo represses notch in <i>Blattella germanica</i> Panoistic ovaries, triggering the mitosis-endocycle switch in the follicular cells. <i>PLoS ONE</i> , 2014 , 9, e113850	3.7	10
21	In vitro inhibition of juvenile hormone III biosynthesis by precocene II and 3,4-dihydroprecocene II on <i>Blattella germanica</i> . <i>Journal of Insect Physiology</i> , 1988 , 34, 457-461	2.4	10

20	SPARC preserves follicular epithelium integrity in insect ovaries. <i>Developmental Biology</i> , 2017 , 422, 105-114	3.14	9
19	Cloning and expression pattern of the ecdysone receptor and retinoid X receptor from the centipede <i>Lithobius peregrinus</i> (Chilopoda, Lithobiomorpha). <i>General and Comparative Endocrinology</i> , 2011 , 174, 60-9	3	9
18	A microdialysis study of allatostatin degradation in <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). <i>Physiological Entomology</i> , 2000 , 25, 254-259	1.9	9
17	In vivo and in vitro effects of compactin in liposome carriers on juvenile hormone biosynthesis in adult females of <i>Blattella germanica</i> . <i>Pesticide Biochemistry and Physiology</i> , 1988 , 32, 1-10	4.9	9
16	Crosstalk of EGFR signalling with Notch and Hippo pathways to regulate cell specification, migration and proliferation in cockroach panoistic ovaries. <i>Biology of the Cell</i> , 2015 , 107, 273-85	3.5	8
15	Chorion formation in panoistic ovaries requires windei and trimethylation of histone 3 lysine 9. <i>Experimental Cell Research</i> , 2014 , 320, 46-53	4.2	8
14	Allatostatin Inhibits Vitellogenin Release in a Cockroacha. <i>Annals of the New York Academy of Sciences</i> , 1998 , 839, 341-342	6.5	8
13	Ovarian 3-hydroxy-3-methylglutaryl-CoA reductase in <i>Blattella germanica</i> (L.): pattern of expression and critical role in embryogenesis. <i>Journal of Insect Physiology</i> , 2002 , 48, 675-681	2.4	6
12	Stimulating action of methyl 12, 12, 12-trifluorofarnesoate on in vitro juvenile hormone III biosynthesis in <i>blattella germanica</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 1989 , 11, 257-270	2.3	6
11	Inhibition of juvenile hormone during the formation of the spermatophore in <i>Blattella germanica</i> (L.) (dictyoptera, blattellidae) 1996 , 32, 559-566		5
10	The conglobate gland of <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). Maturation, juvenile hormone dependency and changes during spermatophore formation. <i>Invertebrate Reproduction and Development</i> , 1996 , 29, 167-172	0.7	5
9	Modulation by somatostatin of juvenile hormone release in a cockroach. <i>Die Naturwissenschaften</i> , 1988 , 75, 413-415	2	5
8	Diversity of piRNA expression patterns during the ontogeny of the German cockroach. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2018 , 330, 288-295	1.8	5
7	Stimulatory activity of cysteamine on juvenile hormone release in adult females of the cockroach, <i>Blattella germanica</i> . <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1989 , 94, 795-8		4
6	Identification and functional characterization of an ovarian aquaporin from the cockroach <i>Blattella germanica</i> L. (Dictyoptera, Blattellidae). <i>Journal of Experimental Biology</i> , 2011 , 214, 3895-3895	3	2
5	Eyes absent in the cockroach panoistic ovaries regulates proliferation and differentiation through ecdysone signalling. <i>Insect Biochemistry and Molecular Biology</i> , 2020 , 123, 103407	4.5	1
4	On the role of Juvenile Hormone in vitellogenesis in cockroaches. <i>Physiological Entomology</i> , 2000 , 25, 207-208	1.9	1
3	Age-dependent neurosecretion release induced by dopamine in the corpora cardiaca of <i>Blattella germanica</i> (L.) (Dictyoptera : Blattellidae). <i>Arthropod Structure and Development</i> , 1993 , 22, 1-11		1

- 2 Autoinhibition of juvenile hormone production. The case of the cockroach *Blattella germanica* (L.).
Experientia, **1993**, 49, 320-323 1
- 1 DIPA-CRISPR is a simple and accessible method for insect gene editing. *Cell Reports Methods*, **2022**, 100215 0