

Maria-Dolors Piulachs

List of Publications by Year in descending order

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92
papers

3,820
citations

109137

35
h-index

143772

57
g-index

92
all docs

92
docs citations

92
times ranked

3200
citing authors

#	ARTICLE	IF	CITATIONS
1	THE MEVALONATE PATHWAY AND THE SYNTHESIS OF JUVENILE HORMONE IN INSECTS. Annual Review of Entomology, 2005, 50, 181-199.	5.7	334
2	Hemimetabolous genomes reveal molecular basis of termite eusociality. Nature Ecology and Evolution, 2018, 2, 557-566.	3.4	223
3	The vitellogenin of the honey bee, <i>Apis mellifera</i> : structural analysis of the cDNA and expression studies. Insect Biochemistry and Molecular Biology, 2003, 33, 459-465.	1.2	167
4	Vitellogenin expression in queen ovaries and in larvae of both sexes of <i>Apis mellifera</i> . Archives of Insect Biochemistry and Physiology, 2005, 59, 211-218.	0.6	125
5	Systemic RNAi of the cockroach vitellogenin receptor results in a phenotype similar to that of the <i>Drosophila</i> <i>yolkless</i> mutant. FEBS Journal, 2006, 273, 325-335.	2.2	121
6	Allatostatic neuropeptides from the cockroach <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). Identification, immunolocalization and activity. Regulatory Peptides, 1994, 53, 237-247.	1.9	104
7	Ecdysone signalling and ovarian development in insects: from stem cells to ovarian follicle formation. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2015, 1849, 181-186.	0.9	101
8	Insect antifeedant activity of clerodane diterpenoids against larvae of <i>Spodoptera littoralis</i> (Boisd.) (Lepidoptera). Journal of Chemical Ecology, 1985, 11, 1439-1445.	0.9	95
9	Screening of antifeedant activity in brain extracts led to the identification of sulfakinin as a satiety promoter in the German cockroach.. FEBS Journal, 2001, 268, 5824-5830.	0.2	95
10	Deep Sequencing of Organ- and Stage-Specific microRNAs in the Evolutionarily Basal Insect <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). PLoS ONE, 2011, 6, e19350.	1.1	94
11	Evolution on a shaky piece of Gondwana: is local endemism recent in New Caledonia?. Cladistics, 2005, 21, 2-7.	1.5	86
12	Key roles of the Broad-Complex gene in insect embryogenesis. Insect Biochemistry and Molecular Biology, 2010, 40, 468-475.	1.2	79
13	An experimental test of the role of environmental temperature variability on ectotherm molecular, physiological and life-history traits: Implications for global warming. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2011, 159, 242-246.	0.8	79
14	Inhibition of vitellogenin production by allatostatin in the German cockroach. Molecular and Cellular Endocrinology, 1996, 121, 191-196.	1.6	75
15	Expression analysis of putative vitellogenin and lipophorin receptors in honey bee (<i>Apis mellifera</i> L.) queens and workers. Journal of Insect Physiology, 2008, 54, 1138-1147.	0.9	71
16	Quantity does matter. Juvenile hormone and the onset of vitellogenesis in the German cockroach. Insect Biochemistry and Molecular Biology, 2003, 33, 1219-1225.	1.2	70
17	In vitro biosynthesis of JH III by the corpora allata of adult females of <i>Blattella germanica</i> (L.). Insect Biochemistry, 1987, 17, 1007-1010.	1.8	66
18	Juvenile Hormone Titer Versus Juvenile Hormone Synthesis in Female Nymphs and Adults of the German Cockroach, <i>Blattella germanica</i> . Journal of Insect Science, 2006, 6, 1-7.	0.6	61

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19	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, 616-626.	1.2	59
20	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.	1.6	56
21	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, 171-177.	1.9	56
22	RNAi of <i>ace1</i> and <i>ace2</i> 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, 913-919.	1.2	56
23	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, 821-827.	1.2	55
24	Different B cell antigens dominate responses in asthma versus rhinitis subjects. <i>Clinical and Experimental Allergy</i> , 2015, 45, 1856-1867.	1.4	53
25	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.	3.0	52
26	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, 20140407.	1.0	50
27	Identifying genes related to choriogenesis in insect panoistic ovaries by Suppression Subtractive Hybridization. <i>BMC Genomics</i> , 2009, 10, 206.	1.2	47
28	Conservation of <i>fruitless</i> ™ role as master regulator of male courtship behaviour from cockroaches to flies. <i>Development Genes and Evolution</i> , 2011, 221, 43-48.	0.4	46
29	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, 164-174.	1.1	44
30	Localization of allatostatin-immunoreactive material in the central nervous system, stomatogastric nervous system, and gut of the cockroach <i>Blattella germanica</i> . , 1998, 37, 269-282.		43
31	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.	0.6	41
32	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, 233-241.	0.2	40
33	The microRNA toolkit of insects. <i>Scientific Reports</i> , 2016, 6, 37736.	1.6	40
34	MicroRNA signatures characterizing caste-independent ovarian activity in queen and worker honeybees (<i>Apis mellifera</i> L.). <i>Insect Molecular Biology</i> , 2016, 25, 216-226.	1.0	39
35	Ovarian ecdysteroid levels and basal oocyte development during maturation in the cockroach <i>Blattella germanica</i> (L.). <i>Journal of Insect Physiology</i> , 1992, 38, 339-348.	0.9	37
36	Modulation of cardiac rhythm by allatostatins in the cockroach <i>Blattella germanica</i> (L.) (Dictyoptera, Tj ETQq0 0 0 rgBT /Overlock 10 Tt		37

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37	Feeding and activation of corpora allata in the cockroach <i>Blattella germanica</i> (L.) (Dictyoptera, Tj ETQq1 1 0.784314.rgBT /Overlock 10	0.9	36
38	DIPA-CRISPR is a simple and accessible method for insect gene editing. <i>Cell Reports Methods</i> , 2022, 2, 100215.	1.4	34
39	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, 691-699.	0.2	32
40	Comparative Transcriptomics in Two Extreme Neopterans Reveals General Trends in the Evolution of Modern Insects. <i>IScience</i> , 2018, 4, 164-179.	1.9	32
41	Mitochondrial targeting of farnesyl diphosphate synthase is a widespread phenomenon in eukaryotes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2007, 1773, 419-426.	1.9	30
42	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.	1.2	30
43	Induction of choriogenesis by 20-hydroxyecdysone in the german cockroach. <i>Tissue and Cell</i> , 1993, 25, 195-204.	1.0	29
44	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. , 1998, 38, 137-146.		29
45	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.	1.3	29
46	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, 3630-3638.	0.8	28
47	Juvenile Hormone inhibition in corpora allata from ovariectomized <i>Blattella germanica</i> . <i>Physiological Entomology</i> , 1994, 19, 342-348.	0.6	27
48	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.	0.7	24
49	Dicerin is a key enzyme in the regulation of oogenesis in panoistic ovaries. <i>Biology of the Cell</i> , 2012, 104, 452-461.	0.7	24
50	Identification and characterization of a fatty acyl reductase from a <i>Scolopendoptera littoralis</i> female gland involved in pheromone biosynthesis. <i>Insect Molecular Biology</i> , 2015, 24, 82-92.	1.0	24
51	Citrus, a key insect eggshell protein. <i>Insect Biochemistry and Molecular Biology</i> , 2011, 41, 101-108.	1.2	23
52	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, 837-843.	1.2	22
53	Insect MicroRNAs. , 2012, , 30-56.		22
54	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.	1.5	20

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55	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, 851-858.	1.2	20
56	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.	1.5	20
57	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.	0.6	19
58	Brownie, a Gene Involved in Building Complex Respiratory Devices in Insect Eggshells. <i>PLoS ONE</i> , 2009, 4, e8353.	1.1	19
59	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.	0.9	18
60	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, 1111-1117.	1.7	18
61	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, 391-396.	0.8	18
62	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.	0.9	18
63	<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.	1.6	18
64	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.	0.9	16
65	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, 177-186.	0.6	16
66	Production of vitellogenin <i>in vitro</i> by the periovaric fat body of <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae). <i>Invertebrate Reproduction and Development</i> , 1995, 28, 171-176.	0.3	15
67	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.	1.1	15
68	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.	0.6	15
69	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.	0.6	14
70	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, 60-69.	0.8	14
71	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, 273-285.	0.7	14
72	RNAi reveals the key role of Nervana 1 in cockroach oogenesis and embryo development. <i>Insect Biochemistry and Molecular Biology</i> , 2013, 43, 178-188.	1.2	13

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73	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.	0.6	12
74	SPARC preserves follicular epithelium integrity in insect ovaries. <i>Developmental Biology</i> , 2017, 422, 105-114.	0.9	12
75	Chorion formation in panoistic ovaries requires windei and trimethylation of histone 3 lysine 9. <i>Experimental Cell Research</i> , 2014, 320, 46-53.	1.2	11
76	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.	0.9	10
77	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.	1.6	10
78	Allatostatin Inhibits Vitellogenin Release in a Cockroach. <i>Annals of the New York Academy of Sciences</i> , 1998, 839, 341-342.	1.8	10
79	A microdialysis study of allatostatin degradation in <i>Blattella germanica</i> (L.) (Dictyoptera,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.6	10
80	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.	0.6	8
81	Eyes absent in the cockroach panoistic ovaries regulates proliferation and differentiation through ecdysone signalling. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 123, 103407.	1.2	7
82	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.	0.6	6
83	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.	0.9	6
84	Modulation by somatostatin of juvenile hormone release in a cockroach. <i>Die Naturwissenschaften</i> , 1988, 75, 413-415.	0.6	5
85	Inhibition of juvenile hormone during the formation of the spermatophore in <i>Blattella germanica</i> (L.) (dictyoptera, blattellidae). , 1996, 32, 559-566.		5
86	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.	0.3	5
87	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, 795-798.	0.7	4
88	On the role of Juvenile Hormone in vitellogenesis in cockroaches. A reply to Holbrook et al. <i>Physiological Entomology</i> (2000) 25, 27-34. Juvenile Hormone is essential to induce vitellogenesis in the German cockroach, also in Barcelona.. <i>Physiological Entomology</i> , 2000, 25, 207-208.	0.6	3
89	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.	0.8	3
90	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.	0.4	1

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91	Autoinhibition of juvenile hormone production. The case of the cockroach <i>Blattella germanica</i> (L.). <i>Experientia</i> , 1993, 49, 320-323.	1.2	1
92	Recognition of <i>Bla g</i> T Cell Antigens Varies As a Function of Allergic Asthma Versus Rhinitis. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 137, AB271.	1.5	0