# Maria-Dolors Piulachs

List of Publications by Year
in descending order

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|---|---|---|---|
| 92<br>papers | 3,820<br>citations | 109321<br>35<br>h-index | 144013<br>57<br>g-index |
| 92<br>all docs | 92<br>docs citations | 92<br>times ranked | 3200<br>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. | 11.8 | 334 |
| 2 | Hemimetabolous genomes reveal molecular basis of termite eusociality. Nature Ecology and Evolution, 2018, 2, 557-566. | 7.8 | 223 |
| 3 | The vitellogenin of the honey bee, Apis mellifera: structural analysis of the cDNA and expression studies. Insect Biochemistry and Molecular Biology, 2003, 33, 459-465. | 2.7 | 167 |
| 4 | Vitellogenin expression in queen ovaries and in larvae of both sexes ofApis mellifera. Archives of Insect Biochemistry and Physiology, 2005, 59, 211-218. | 1.5 | 125 |
| 5 | Systemic RNAi of the cockroach vitellogenin receptor results in a phenotype similar to that of the Drosophila yolkless mutant. FEBS Journal, 2006, 273, 325-335. | 4.7 | 121 |
| 6 | Allatostatic neuropeptides from the cockroach Blattella germanica (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. | 1.9 | 101 |
| 8 | Insect antifeedant activity of clerodane diterpenoids against larvae ofSpodoptera Littoralis (Boisd.) (Lepidoptera). Journal of Chemical Ecology, 1985, 11, 1439-1445. | 1.8 | 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 Blattella germanica (L.) (Dictyoptera, Blattellidae). PLoS ONE, 2011, 6, e19350. | 2.5 | 94 |
| 11 | Evolution on a shaky piece of Gondwana: is local endemism recent in New Caledonia?. Cladistics, 2005, 21, 2-7. | 3.3 | 86 |
| 12 | Key roles of the Broad-Complex gene in insect embryogenesis. Insect Biochemistry and Molecular Biology, 2010, 40, 468-475. | 2.7 | 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. | 1.8 | 79 |
| 14 | Inhibition of vitellogenin production by allatostatin in the German cockroach. Molecular and Cellular Endocrinology, 1996, 121, 191-196. | 3.2 | 75 |
| 15 | Expression analysis of putative vitellogenin and lipophorin receptors in honey bee (Apis mellifera L.) queens and workers. Journal of Insect Physiology, 2008, 54, 1138-1147. | 2.0 | 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. | 2.7 | 70 |
| 17 | In vitro biosynthesis of JH III by the corpora allata of adult females of Blattella germanica (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,Blattella germanica. Journal of Insect Science, 2006, 6, 1-7. | 1.5 | 61 |

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|---|---|---|---|
| 19 | The evolutionary transition from subsocial to eusocial behaviour in Dictyoptera: Phylogenetic evidence for modification of the â€œshift-in-dependent-careâ€•hypothesis with a new subsocial cockroach. Molecular Phylogenetics and Evolution, 2007, 43, 616-626. | 2.7 | 59 |
| 20 | Induction of vitellogenin gene transcription in vitro by juvenile hormone in Blattella germanica. Molecular and Cellular Endocrinology, 2001, 183, 93-100. | 3.2 | 56 |
| 21 | Allatostatin gene expression in brain and midgut, and activity of synthetic allatostatins on feeding-related processes in the cockroach Blattella germanica. Regulatory Peptides, 2003, 115, 171-177. | 1.9 | 56 |
| 22 | RNAi of ace1 and ace2 in Blattella germanica reveals their differential contribution to acetylcholinesterase activity and sensitivity to insecticides. Insect Biochemistry and Molecular Biology, 2009, 39, 913-919. | 2.7 | 56 |
| 23 | Fast induction of vitellogenin gene expression by juvenile hormone III in the cockroach Blattella germanica (L.) (Dictyoptera, Blattellidae). Insect Biochemistry and Molecular Biology, 1999, 29, 821-827. | 2.7 | 55 |
| 24 | Different Blaâ€g T cell antigens dominate responses in asthma versus rhinitis subjects. Clinical and Experimental Allergy, 2015, 45, 1856-1867. | 2.9 | 53 |
| 25 | Structural and RNAi characterization of the German cockroach lipophorin receptor, and the evolutionary relationships of lipoprotein receptors. BMC Molecular Biology, 2007, 8, 53. | 3.0 | 52 |
| 26 | The cockroachBlattella germanicaobtains nitrogen from uric acid through a metabolic pathway shared with its bacterial endosymbiont. Biology Letters, 2014, 10, 20140407. | 2.3 | 50 |
| 27 | Identifying genes related to choriogenesis in insect panoistic ovaries by Suppression Subtractive Hybridization. BMC Genomics, 2009, 10, 206. | 2.8 | 47 |
| 28 | Conservation of fruitlessâ€™ role as master regulator of male courtship behaviour from cockroaches to flies. Development Genes and Evolution, 2011, 221, 43-48. | 0.9 | 46 |
| 29 | A Novel GATA Factor Transcriptionally Represses Yolk Protein Precursor Genes in the Mosquito Aedes aegypti via Interaction with the CtBP Corepressor. Molecular and Cellular Biology, 2001, 21, 164-174. | 2.3 | 44 |
| 30 | Localization of allatostatin-immunoreactive material in the central nervous system, stomatogastric nervous system, and gut of the cockroachBlattella germanica. , 1998, 37, 269-282. | | 43 |
| 31 | Patterns of haemolymph vitellogenin and ovarian vitellin in the German cockroach, and the role of Juvenile Hormone. Physiological Entomology, 1995, 20, 59-65. | 1.5 | 41 |
| 32 | Molecular cloning, developmental pattern and tissue expression of 3-hydroxy-3-methylglutaryl coenzyme A reductase of the cockroach Blattella germanica. FEBS Journal, 1993, 213, 233-241. | 0.2 | 40 |
| 33 | The microRNA toolkit of insects. Scientific Reports, 2016, 6, 37736. | 3.3 | 40 |
| 34 | MicroRNA signatures characterizing casteâ€independent ovarian activity in queen and worker honeybees (<scp>A</scp>pis mellifera L.). Insect Molecular Biology, 2016, 25, 216-226. | 2.0 | 39 |
| 35 | Ovarian ecdysteroid levels and basal oÃ¶cyte development during maturation in the cockroach Blattella germanica (L.). Journal of Insect Physiology, 1992, 38, 339-348. | 2.0 | 37 |
| 36 | Modulation of cardiac rhythm by allatostatins in the cockroach Blattella germanica (L.) (Dictyoptera,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 2.0 | 37 |

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|---|---|---|---|
| 37 | Feeding and activation of corpora allata in the cockroach Blattella germanica (L.) (Dictyoptera,) Tj ETQq1 1 0.784314 rgBT /Overlock | 2.0 | 36 |
| 38 | DIPA-CRISPR is a simple and accessible method for insect gene editing. Cell Reports Methods, 2022, 2, 100215. | 2.9 | 34 |
| 39 | 3-Hydroxy-3-methylglutaryl-coenzyme-A synthase from Blattella germanica. Cloning, expression, developmental pattern and tissue expression. FEBS Journal, 1993, 217, 691-699. | 0.2 | 32 |
| 40 | Comparative Transcriptomics in Two Extreme Neopterans Reveals General Trends in the Evolution of Modern Insects. IScience, 2018, 4, 164-179. | 4.1 | 32 |
| 41 | Mitochondrial targeting of farnesyl diphosphate synthase is a widespread phenomenon in eukaryotes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2007, 1773, 419-426. | 4.1 | 30 |
| 42 | Comparative analysis of miRNA expression during the development of insects of different metamorphosis modes and germ-band types. BMC Genomics, 2017, 18, 774. | 2.8 | 30 |
| 43 | Induction of choriogenesis by 20-hydroxyecdysone in the german cockroach. Tissue and Cell, 1993, 25, 195-204. | 2.2 | 29 |
| 44 | Isolation and sequence of a partial vitellogenin cDNA from the cockroach,Blattella germanica (L.) (Dictyoptera, Blattellidae), and characterization of the vitellogenin gene expression. , 1998, 38, 137-146. | | 29 |
| 45 | What does Cryptocercus kyebangensis, n.sp. (Dictyoptera: Blattaria: Polyphagidae) from Korea reveal about Cryptocercus evolution? A study in morphology, molecular phylogeny, and chemistry of tergal glands. Proceedings of the Academy of Natural Sciences of Philadelphia, 2001, 151, 61-79. | 0.5 | 29 |
| 46 | Identification and functional characterization of an ovarian aquaporin from the cockroachBlattella germanicaL. (Dictyoptera, Blattellidae). Journal of Experimental Biology, 2011, 214, 3630-3638. | 1.7 | 28 |
| 47 | Juvenile Hormone inhibition in corpora allata from ovariectomized Blattella germanica. Physiological Entomology, 1994, 19, 342-348. | 1.5 | 27 |
| 48 | Juvenile hormone production and accessory reproductive gland development during sexual maturation of male Blattella germanica (L.) (Dictyoptera, Blattellidae). Comparative Biochemistry and Physiology A, Comparative Physiology, 1992, 102, 477-480. | 0.6 | 24 |
| 49 | Dicerâ€1 is a key enzyme in the regulation of oogenesis in panoistic ovaries. Biology of the Cell, 2012, 104, 452-461. | 2.0 | 24 |
| 50 | Identification and characterization of a fatty acyl reductase from a <scp>S</scp>podoptera littoralis female gland involved in pheromone biosynthesis. Insect Molecular Biology, 2015, 24, 82-92. | 2.0 | 24 |
| 51 | Citrus, a key insect eggshell protein. Insect Biochemistry and Molecular Biology, 2011, 41, 101-108. | 2.7 | 23 |
| 52 | Coordinated expression and activity of 3-hydroxy-3-methylglutaryl coenzyme a synthase and reductase in the fat body of Blattella germanica (L.) during vitellogenesis. Insect Biochemistry and Molecular Biology, 1996, 26, 837-843. | 2.7 | 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 Blattella germanica. Cell and Tissue Research, 1989, 258, 91. | 2.9 | 20 |

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|---|---|---|---|
| 55 | Ketomethylene and Methyleneamino Pseudopeptide Analogues of Insect Allatostatins Inhibit Juvenile Hormone and Vitellogenin Production in the Cockroach Blattella germanica. Insect Biochemistry and Molecular Biology, 1997, 27, 851-858. | 2.7 | 20 |
| 56 | The Notch pathway regulates both the proliferation and differentiation of follicular cells in the panoistic ovary ofBlattella germanica. Open Biology, 2016, 6, 150197. | 3.6 | 20 |
| 57 | Vitellogenin ofBlattella germanica (l.) (Dictyoptera, Blattellidae): Nucleotide sequence of the cDNA and analysis of the protein primary structure. Archives of Insect Biochemistry and Physiology, 2000, 45, 1-11. | 1.5 | 19 |
| 58 | Brownie, a Gene Involved in Building Complex Respiratory Devices in Insect Eggshells. PLoS ONE, 2009, 4, e8353. | 2.5 | 19 |
| 59 | Differential stimulation of juvenile hormone III biosynthesis induced by mevalonate and mevalonolactone in Blattella germanica (L.). Journal of Insect Physiology, 1992, 38, 555-560. | 2.0 | 18 |
| 60 | Inhibitors of 3-hydroxy-3-methylglutaryl-CoA reductase lower fecundity in the German cockroach: correlation between the effects on fecundityin vivowith the inhibition of enzymatic activity in embryo cells. Pest Management Science, 2003, 59, 1111-1117. | 3.4 | 18 |
| 61 | Biogeographic origin and thermal acclimation interact to determine survival and hsp90 expression in Drosophila species submitted to thermal stress. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 162, 391-396. | 1.8 | 18 |
| 62 | Conserved association of Argonaute 1 and 2 proteins with miRNA and siRNA pathways throughout insect evolution, from cockroaches to flies. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2018, 1861, 554-560. | 1.9 | 18 |
| 63 | Blattella germanica has two HMG-CoA synthase genes. Both are regulated in the ovary during the gonadotrophic cycle. Journal of Biological Chemistry, 1994, 269, 11707-13. | 3.4 | 18 |
| 64 | Production and extraovarian processing of vitellogenin in ovariectomized Blattella germanica (L.) (Dictyoptera, Blattellidae). Journal of Insect Physiology, 1996, 42, 101-105. | 2.0 | 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. Archives of Insect Biochemistry and Physiology, 2002, 49, 177-186. | 1.5 | 16 |
| 66 | Production of vitellogeninin vitroby the periovaric fat body ofBlattella germanica(L.) (Dictyoptera, Blattellidae). Invertebrate Reproduction and Development, 1995, 28, 171-176. | 0.8 | 15 |
| 67 | Unlike in Drosophila Meroistic Ovaries, Hippo Represses Notch in Blattella germanica Panoistic Ovaries, Triggering the Mitosis-Endocycle Switch in the Follicular Cells. PLoS ONE, 2014, 9, e113850. | 2.5 | 15 |
| 68 | Expansions of key protein families in the German cockroach highlight the molecular basis of its remarkable success as a global indoor pest. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2018, 330, 254-264. | 1.3 | 15 |
| 69 | Determination of allatostatin levels in relation to the gonadotropic cycle in the female of Blattella germanica (L.) (Dictyoptera, Blattellidae). Physiological Entomology, 1999, 24, 213-219. | 1.5 | 14 |
| 70 | Cloning and expression pattern of the ecdysone receptor and retinoid X receptor from the centipede Lithobius peregrinus (Chilopoda, Lithobiomorpha). General and Comparative Endocrinology, 2011, 174, 60-69. | 1.8 | 14 |
| 71 | Crosstalk of EGFR signalling with Notch and Hippo pathways to regulate cell specification, migration and proliferation in cockroach panoistic ovaries. Biology of the Cell, 2015, 107, 273-285. | 2.0 | 14 |
| 72 | RNAi reveals the key role of Nervana 1 in cockroach oogenesis and embryo development. Insect Biochemistry and Molecular Biology, 2013, 43, 178-188. | 2.7 | 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 Blattella germanica. Physiological Entomology, 1997, 22, 6-12. | 1.5 | 12 |
| 74 | SPARC preserves follicular epithelium integrity in insect ovaries. Developmental Biology, 2017, 422, 105-114. | 2.0 | 12 |
| 75 | Chorion formation in panoistic ovaries requires windei and trimethylation of histone 3 lysine 9. Experimental Cell Research, 2014, 320, 46-53. | 2.6 | 11 |
| 76 | In vitro inhibition of juvenile hormone III biosynthesis by precocene II and 3,4-dihydroprecocene II on Blattella germanica. Journal of Insect Physiology, 1988, 34, 457-461. | 2.0 | 10 |
| 77 | In vivo and in vitro effects of compactin in liposome carriers on juvenile hormone biosynthesis in adult females of Blattella germanica. Pesticide Biochemistry and Physiology, 1988, 32, 1-10. | 3.6 | 10 |
| 78 | Allatostatin Inhibits Vitellogenin Release in a Cockroacha. Annals of the New York Academy of Sciences, 1998, 839, 341-342. | 3.8 | 10 |
| 79 | A microdialysis study of allatostatin degradation in Blattella germanica (L.) (Dictyoptera,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 | 1.5 | 9 |
| 80 | Diversity of piRNA expression patterns during the ontogeny of the German cockroach. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2018, 330, 288-295. | 1.3 | 8 |
| 81 | Eyes absent in the cockroach panoistic ovaries regulates proliferation and differentiation through ecdysone signalling. Insect Biochemistry and Molecular Biology, 2020, 123, 103407. | 2.7 | 7 |
| 82 | Stimulating action of methyl 12, 12, 12-trifluorofarnesoate on in vitro juvenile hormone III biosynthesis in blattella germanica. Archives of Insect Biochemistry and Physiology, 1989, 11, 257-270. | 1.5 | 6 |
| 83 | Ovarian 3-hydroxy-3-methylglutaryl-CoA reductase in Blattella germanica (L.): pattern of expression and critical role in embryogenesis. Journal of Insect Physiology, 2002, 48, 675-681. | 2.0 | 6 |
| 84 | Modulation by somatostatin of juvenile hormone release in a cockroach. Die Naturwissenschaften, 1988, 75, 413-415. | 1.6 | 5 |
| 85 | Inhibition of juvenile hormone during the formation of the spermatophore inBlattella germanica (L.) (dictyoptera, blattellidae). , 1996, 32, 559-566. | | 5 |
| 86 | The conglobate gland ofBlattella germanica(L.) (Dictyoptera, Blattellidae). Maturation, juvenile hormone dependency and changes during spermatophore formation. Invertebrate Reproduction and Development, 1996, 29, 167-172. | 0.8 | 5 |
| 87 | Stimulatory activity of cysteamine on juvenile hormone release in adult females of the cockroach, Blattella germanica. Comparative Biochemistry and Physiology A, Comparative Physiology, 1989, 94, 795-798. | 0.6 | 4 |
| 88 | On the role of Juvenile Hormone in vitellogenesis in cockroaches. A reply to Holbrook et al. Physiological Entomology (2000) 25, 27-34. Juvenile Hormone is essential to induce vitellogenesis in the German cockroach, also in Barcelona.. Physiological Entomology, 2000, 25, 207-208. | 1.5 | 3 |
| 89 | Identification and functional characterization of an ovarian aquaporin from the cockroach Blattella germanica L. (Dictyoptera, Blattellidae). Journal of Experimental Biology, 2011, 214, 3895-3895. | 1.7 | 3 |
| 90 | Age-dependent neurosecretion release induced by dopamine in the corpora cardiaca of Blattella germanica (L.) (Dictyoptera : Blattellidae). Arthropod Structure and Development, 1993, 22, 1-11. | 0.4 | 1 |

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|---|---|---|---|
| 91 | Autoinhibition of juvenile hormone production. The case of the cockroachBlattella germanica (L.). Experientia, 1993, 49, 320-323. | 1.2 | 1 |
| 92 | Recognition of Bla g T Cell Antigens Varies As a Function of Allergic Asthma Versus Rhinitis. Journal of Allergy and Clinical Immunology, 2016, 137, AB271. | 2.9 | 0 |