

Peter K Dearden

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

6,412
citations

159585

30
h-index

74163

75
g-index

115
all docs

115
docs citations

115
times ranked

7256
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Insights into social insects from the genome of the honeybee <i>Apis mellifera</i> . <i>Nature</i> , 2006, 443, 931-949. | 27.8 | 1,648 |
| 2 | Genome Sequence of the Pea Aphid <i>Acyrtosiphon pisum</i> . <i>PLoS Biology</i> , 2010, 8, e1000313. | 5.6 | 913 |
| 3 | The genomes of two key bumblebee species with primitive eusocial organization. <i>Genome Biology</i> , 2015, 16, 76. | 8.8 | 330 |
| 4 | The First Myriapod Genome Sequence Reveals Conservative Arthropod Gene Content and Genome Organisation in the Centipede <i>Strigamia maritima</i> . <i>PLoS Biology</i> , 2014, 12, e1002005. | 5.6 | 221 |
| 5 | Epigenetics, plasticity, and evolution: How do we link epigenetic change to phenotype?. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2014, 322, 208-220. | 1.3 | 217 |
| 6 | Rights, interests and expectations: Indigenous perspectives on unrestricted access to genomic data. <i>Nature Reviews Genetics</i> , 2020, 21, 377-384. | 16.3 | 141 |
| 7 | Patterns of conservation and change in honey bee developmental genes. <i>Genome Research</i> , 2006, 16, 1376-1384. | 5.5 | 139 |
| 8 | TCR- or Cytokine-Activated CD8+ Mucosal-Associated Invariant T Cells Are Rapid Polyfunctional Effectors That Can Coordinate Immune Responses. <i>Cell Reports</i> , 2019, 28, 3061-3076.e5. | 6.4 | 138 |
| 9 | A CACNA1F mutation identified in an X-linked retinal disorder shifts the voltage dependence of Cav1.4 channel activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7553-7558. | 7.1 | 129 |
| 10 | Large-scale gene discovery in the pea aphid <i>Acyrtosiphon pisum</i> (Hemiptera). <i>Genome Biology</i> , 2006, 7, R21. | 9.6 | 123 |
| 11 | Molecular evolutionary trends and feeding ecology diversification in the Hemiptera, anchored by the milkweed bug genome. <i>Genome Biology</i> , 2019, 20, 64. | 8.8 | 114 |
| 12 | Expression of pair-rule gene homologues in a chelicerate: early patterning of the two-spotted spider mite <i>Tetranychus urticae</i> . <i>Development (Cambridge)</i> , 2002, 129, 5461-5472. | 2.5 | 106 |
| 13 | Effects of Presynaptic Mutations on a Postsynaptic Cacna1s Calcium Channel Colocalized with mGluR6 at Mouse Photoreceptor Ribbon Synapses. , 2009, 50, 505. | | 95 |
| 14 | Early embryo patterning in the grasshopper, <i>Schistocerca gregaria</i> ; <i>wingless</i> , <i>decapentaplegic</i> and <i>caudal</i> expression. <i>Development (Cambridge)</i> , 2001, 128, 3435-3444. | 2.5 | 83 |
| 15 | Comprehensive survey of developmental genes in the pea aphid, <i>Acyrtosiphon pisum</i> : frequent lineage-specific duplications and losses of developmental genes. <i>Insect Molecular Biology</i> , 2010, 19, 47-62. | 2.0 | 81 |
| 16 | Biased gene expression in early honeybee larval development. <i>BMC Genomics</i> , 2013, 14, 903. | 2.8 | 80 |
| 17 | Germ cell development in the Honeybee (<i>Apis mellifera</i>); <i>vasa</i> and <i>nanos</i> expression. , 2006, 6, 6. | | 70 |
| 18 | Stonefish toxin defines an ancient branch of the perforin-like superfamily. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15360-15365. | 7.1 | 69 |

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|----|--|------|-----------|
| 19 | Notch signalling mediates reproductive constraint in the adult worker honeybee. <i>Nature Communications</i> , 2016, 7, 12427. | 12.8 | 67 |
| 20 | The potential for the use of gene drives for pest control in New Zealand: a perspective. <i>Journal of the Royal Society of New Zealand</i> , 2018, 48, 225-244. | 1.9 | 66 |
| 21 | Germ Line Development in the Grasshopper <i>Schistocerca gregaria</i> : vasa As a Marker. <i>Developmental Biology</i> , 2002, 252, 100-118. | 2.0 | 60 |
| 22 | Giant, Krüppel, and caudal act as gap genes with extensive roles in patterning the honeybee embryo. <i>Developmental Biology</i> , 2010, 339, 200-211. | 2.0 | 54 |
| 23 | Evolution of the insect Sox genes. <i>BMC Evolutionary Biology</i> , 2008, 8, 120. | 3.2 | 53 |
| 24 | Canonical terminal patterning is an evolutionary novelty. <i>Developmental Biology</i> , 2013, 377, 245-261. | 2.0 | 48 |
| 25 | Tailless patterning functions are conserved in the honeybee even in the absence of Torso signaling. <i>Developmental Biology</i> , 2009, 335, 276-287. | 2.0 | 46 |
| 26 | Functional development of the adult ovine mammary gland—insights from gene expression profiling. <i>BMC Genomics</i> , 2015, 16, 748. | 2.8 | 44 |
| 27 | Maternal expression and early zygotic regulation of the Hox3 gene in the grasshopper <i>Schistocerca gregaria</i> . <i>Evolution & Development</i> , 2000, 2, 261-270. | 2.0 | 43 |
| 28 | Transcriptome Analysis of Honeybee (<i>Apis Mellifera</i>) Haploid and Diploid Embryos Reveals Early Zygotic Transcription during Cleavage. <i>PLoS ONE</i> , 2016, 11, e0146447. | 2.5 | 43 |
| 29 | Developmental evolution: Axial patterning in insects. <i>Current Biology</i> , 1999, 9, R591-R594. | 3.9 | 40 |
| 30 | A role for Fringe in segment morphogenesis but not segment formation in the grasshopper, <i>Schistocerca gregaria</i> . <i>Development Genes and Evolution</i> , 2000, 210, 329-336. | 0.9 | 38 |
| 31 | Non-radioactive in-situ hybridisation to honeybee embryos and ovaries. <i>Apidologie</i> , 2005, 36, 113-118. | 2.0 | 38 |
| 32 | Diversity in insect axis formation: two <i>orthodenticle</i> genes and <i>hunchback</i> act in anterior patterning and influence dorsoventral organization in the honeybee (<i>Apis mellifera</i>). <i>Development (Cambridge)</i> , 2011, 138, 3497-3507. | 2.5 | 36 |
| 33 | Expression of Pax group III genes in the honeybee (<i>Apis mellifera</i>). <i>Development Genes and Evolution</i> , 2005, 215, 499-508. | 0.9 | 34 |
| 34 | Components of the dorsal-ventral pathway also contribute to anterior-posterior patterning in honeybee embryos (<i>Apis mellifera</i>). <i>EvoDevo</i> , 2014, 5, 11. | 3.2 | 33 |
| 35 | The Lophotrochozoan TGF- β signalling cassette - diversification and conservation in a key signalling pathway. <i>International Journal of Developmental Biology</i> , 2014, 58, 533-549. | 0.6 | 32 |
| 36 | Invasive Insects: Management Methods Explored. <i>Journal of Insect Science</i> , 2019, 19, . | 1.5 | 32 |

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|----|---|-----|-----------|
| 37 | The potential for a CRISPR gene drive to eradicate or suppress globally invasive social wasps. <i>Scientific Reports</i> , 2020, 10, 12398. | 3.3 | 32 |
| 38 | Genome Architecture Facilitates Phenotypic Plasticity in the Honeybee (<i>Apis mellifera</i>). <i>Molecular Biology and Evolution</i> , 2020, 37, 1964-1978. | 8.9 | 30 |
| 39 | Including Digital Sequence Data in the Nagoya Protocol Can Promote Data Sharing. <i>Trends in Biotechnology</i> , 2021, 39, 116-125. | 9.3 | 30 |
| 40 | Pair-Rule Gene Orthologues Have Unexpected Maternal Roles in the Honeybee (<i>Apis mellifera</i>). <i>PLoS ONE</i> , 2012, 7, e46490. | 2.5 | 29 |
| 41 | Physical law not natural selection as the major determinant of biological complexity in the subcellular realm: new support for the pre-Darwinian conception of evolution by natural law. <i>BioSystems</i> , 2003, 71, 297-303. | 2.0 | 28 |
| 42 | The evolution of oocyte patterning in insects: multiple cell-signaling pathways are active during honeybee oogenesis and are likely to play a role in axis patterning. <i>Evolution & Development</i> , 2011, 13, 127-137. | 2.0 | 28 |
| 43 | Analysis of the genome of the New Zealand giant collembolan (<i>Holacanthella duospinosa</i>) sheds light on hexapod evolution. <i>BMC Genomics</i> , 2017, 18, 795. | 2.8 | 28 |
| 44 | The pea aphid (<i>Acyrtosiphon pisum</i>) genome encodes two divergent early developmental programs. <i>Developmental Biology</i> , 2013, 377, 262-274. | 2.0 | 27 |
| 45 | Ecological gradients drive insect wing loss and speciation: The role of the alpine treeline. <i>Molecular Ecology</i> , 2019, 28, 3141-3150. | 3.9 | 27 |
| 46 | Phenotypic Plasticity: What Has DNA Methylation Got to Do with It?. <i>Insects</i> , 2022, 13, 110. | 2.2 | 27 |
| 47 | The activin receptor-like kinase 6 Booroola mutation enhances suppressive effects of bone morphogenetic protein 2 (BMP2), BMP4, BMP6 and growth and differentiation factor-9 on FSH release from ovine primary pituitary cell cultures. <i>Journal of Endocrinology</i> , 2008, 196, 251-261. | 2.6 | 25 |
| 48 | Stable reference genes for the measurement of transcript abundance during larval caste development in the honeybee. <i>Apidologie</i> , 2013, 44, 357-366. | 2.0 | 25 |
| 49 | Evolution of a genomic regulatory domain: The role of gene co-option and gene duplication in the Enhancer of split complex. <i>Genome Research</i> , 2010, 20, 917-928. | 5.5 | 22 |
| 50 | Notch signaling does not regulate segmentation in the honeybee, <i>Apis mellifera</i> . <i>Development Genes and Evolution</i> , 2010, 220, 179-190. | 0.9 | 21 |
| 51 | What Do Studies of Insect Polyphenisms Tell Us about Nutritionally-Triggered Epigenomic Changes and Their Consequences?. <i>Nutrients</i> , 2015, 7, 1787-1797. | 4.1 | 21 |
| 52 | The honeybee as a model insect for developmental genetics. <i>Genesis</i> , 2017, 55, e23019. | 1.6 | 21 |
| 53 | Vasa expression and germ-cell specification in the spider mite <i>Tetranychus urticae</i> . <i>Development Genes and Evolution</i> , 2003, 212, 599-603. | 0.9 | 19 |
| 54 | Evolutionary origin and genomic organisation of runt-domain containing genes in arthropods. <i>BMC Genomics</i> , 2008, 9, 558. | 2.8 | 19 |

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|----|--|------|-----------|
| 55 | High-Quality Assemblies for Three Invasive Social Wasps from the <i>Vespula</i> Genus. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 3479-3488. | 1.8 | 19 |
| 56 | Segmentation in silico. <i>Nature</i> , 2000, 406, 131-132. | 27.8 | 18 |
| 57 | Germ cell specification and ovary structure in the rotifer <i>Brachionus plicatilis</i> . <i>EvoDevo</i> , 2010, 1, 5. | 3.2 | 18 |
| 58 | Deep sequencing and expression of microRNAs from early honeybee (<i>Apis mellifera</i>) embryos reveals a role in regulating early embryonic patterning. <i>BMC Evolutionary Biology</i> , 2012, 12, 211. | 3.2 | 18 |
| 59 | Genetic tests for alleles of complementary-sex-determiner to support honeybee breeding programmes. <i>Apidologie</i> , 2013, 44, 306-313. | 2.0 | 18 |
| 60 | Comparative RNA seq analysis of the New Zealand glowworm <i>Arachnocampa luminosa</i> reveals bioluminescence-related genes. <i>BMC Genomics</i> , 2015, 16, 825. | 2.8 | 18 |
| 61 | Comparative transcriptomic analysis of a wing-dimorphic stonefly reveals candidate wing loss genes. <i>EvoDevo</i> , 2019, 10, 21. | 3.2 | 18 |
| 62 | Genomics Reveals Widespread Ecological Speciation in Flightless Insects. <i>Systematic Biology</i> , 2021, 70, 863-876. | 5.6 | 18 |
| 63 | Genotyping-by-sequencing supports a genetic basis for wing reduction in an alpine New Zealand stonefly. <i>Scientific Reports</i> , 2018, 8, 16275. | 3.3 | 17 |
| 64 | Sawfly Genomes Reveal Evolutionary Acquisitions That Fostered the Mega-Radiation of Parasitoid and Eusocial Hymenoptera. <i>Genome Biology and Evolution</i> , 2020, 12, 1099-1188. | 2.5 | 17 |
| 65 | The Pacific Biosciences de novo assembled genome dataset from a parthenogenetic New Zealand wild population of the longhorned tick, <i>Haemaphysalis longicornis</i> Neumann, 1901. <i>Data in Brief</i> , 2019, 27, 104602. | 1.0 | 15 |
| 66 | Convergent occurrence of the developmental hourglass in plant and animal embryogenesis?. <i>Annals of Botany</i> , 2016, 117, 833-843. | 2.9 | 14 |
| 67 | Human liver-derived MAIT cells differ from blood MAIT cells in their metabolism and response to TCR-independent activation. <i>European Journal of Immunology</i> , 2021, 51, 879-892. | 2.9 | 14 |
| 68 | Genetic Diversity in Invasive Populations of Argentine Stem Weevil Associated with Adaptation to Biocontrol. <i>Insects</i> , 2020, 11, 441. | 2.2 | 13 |
| 69 | Identification of reference genes for RT-qPCR in ovine mammary tissue during late pregnancy and lactation and in response to maternal nutritional programming. <i>Physiological Genomics</i> , 2014, 46, 560-570. | 2.3 | 12 |
| 70 | Evolution of the Torso activation cassette, a pathway required for terminal patterning and moulting. <i>Insect Molecular Biology</i> , 2019, 28, 392-408. | 2.0 | 12 |
| 71 | The Honeybee <i>Apis mellifera</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.emo123. | 0.3 | 11 |
| 72 | Gene expression indicates a zone of heterocyst differentiation within the thallus of the cyanolichen <i>Pseudocyphellaria crocata</i> . <i>New Phytologist</i> , 2012, 196, 862-872. | 7.3 | 11 |

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|----|---|-----|-----------|
| 73 | The importance of early life in childhood obesity and related diseases: a report from the 2014 Gravidia Strategic Summit. <i>Journal of Developmental Origins of Health and Disease</i> , 2014, 5, 398-407. | 1.4 | 11 |
| 74 | Striatal mRNA expression patterns underlying peak dose l-DOPA-induced dyskinesia in the 6-OHDA hemiparkinsonian rat. <i>Neuroscience</i> , 2016, 324, 238-251. | 2.3 | 10 |
| 75 | A "phenotypic hangover"™: the predictive adaptive response and multigenerational effects of altered nutrition on the transcriptome of <i>Drosophila melanogaster</i> . <i>Environmental Epigenetics</i> , 2017, 3, dx019. | 1.8 | 10 |
| 76 | Capturing embryonic development from metamorphosis: how did the terminal patterning signalling pathway of <i>Drosophila</i> evolve?. <i>Current Opinion in Insect Science</i> , 2014, 1, 45-51. | 4.4 | 9 |
| 77 | RNA Interference (RNAi) in Honeybee (<i>Apis mellifera</i>) Embryos: Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5228. | 0.3 | 8 |
| 78 | Origin and evolution of the enhancer of split complex. <i>BMC Genomics</i> , 2015, 16, 712. | 2.8 | 8 |
| 79 | Five animal phyla in glacier ice reveal unprecedented biodiversity in New Zealand's Southern Alps. <i>Scientific Reports</i> , 2021, 11, 3898. | 3.3 | 8 |
| 80 | The <i>torso-like</i> gene functions to maintain the structure of the vitelline membrane in <i>Nasonia vitripennis</i> , implying its co-option into <i>Drosophila</i> axis formation. <i>Biology Open</i> , 2019, 8, . | 1.2 | 7 |
| 81 | Transcriptomic characterisation of neuropeptides and their putative cognate G protein-coupled receptors during late embryo and stage-1 juvenile development of the Aotearoa-New Zealand crayfish, <i>Paranephrops zealandicus</i> . <i>General and Comparative Endocrinology</i> , 2020, 292, 113443. | 1.8 | 7 |
| 82 | Fixation and Storage of Honeybee (<i>Apis mellifera</i>) Tissues. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5224-pdb.prot5224. | 0.3 | 6 |
| 83 | Whole-Mount In Situ Hybridization of Honeybee (<i>Apis mellifera</i>) Tissues. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5225-pdb.prot5225. | 0.3 | 6 |
| 84 | Expression pattern of empty-spiracles, a conserved head-patterning gene, in honeybee (<i>Apis mellifera</i>) embryos. <i>Gene Expression Patterns</i> , 2014, 15, 142-148. | 0.8 | 6 |
| 85 | Ancestral hymenopteran queen pheromones do not share the broad phylogenetic repressive effects of honeybee queen mandibular pheromone. <i>Journal of Insect Physiology</i> , 2019, 119, 103968. | 2.0 | 6 |
| 86 | Genomic signatures of parallel alpine adaptation in recently evolved flightless insects. <i>Molecular Ecology</i> , 2021, 30, 6677-6686. | 3.9 | 6 |
| 87 | RNA localization in the honeybee (<i>Apis mellifera</i>) oocyte reveals insights about the evolution of RNA localization mechanisms. <i>Developmental Biology</i> , 2013, 375, 193-201. | 2.0 | 5 |
| 88 | Genotyping-by-sequencing of pooled drone DNA for the management of living honeybee (<i>Apis mellifera</i>) queens in commercial beekeeping operations in New Zealand. <i>Apidologie</i> , 2020, 51, 545-556. | 2.0 | 5 |
| 89 | Nutrition and Epigenetic Change in Insects: Evidence and Implications. <i>Advances in Insect Physiology</i> , 2017, 53, 31-54. | 2.7 | 4 |
| 90 | Designing and implementing a genetic improvement program in commercial beekeeping operations. <i>Journal of Apicultural Research</i> , 2020, 59, 638-647. | 1.5 | 4 |

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|-----|---|-----|-----------|
| 91 | Opportunities for modern genetic technologies to maintain and enhance Aotearoa New Zealand's bioheritage. <i>New Zealand Journal of Ecology</i> , 2020, 44, . | 1.1 | 4 |
| 92 | Immunohistochemistry on Honeybee (<i>Apis mellifera</i>) Embryos. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5227. | 0.3 | 3 |
| 93 | A mechanically strengthened polyacrylamide gel matrix fully compatible with electrophoresis of proteins and nucleic acids. <i>Electrophoresis</i> , 2018, 39, 824-832. | 2.4 | 3 |
| 94 | <i>Drosophila melanogaster</i> and worker honeybees (<i>Apis mellifera</i>) do not require olfaction to be susceptible to honeybee queen mandibular pheromone. <i>Journal of Insect Physiology</i> , 2020, 127, 104154. | 2.0 | 3 |
| 95 | The <i>Nasonia</i> pair-rule gene regulatory network retains its function over 300 million years of evolution. <i>Development (Cambridge)</i> , 2022, 149, . | 2.5 | 3 |
| 96 | NMDA receptor expression and C terminus structure in the rotifer <i>Brachionus plicatilis</i> and long-term potentiation across the Metazoa. <i>Invertebrate Neuroscience</i> , 2013, 13, 125-134. | 1.8 | 2 |
| 97 | Epigenetics and the Maternal Germline. , 2014, , 27-41. | | 2 |
| 98 | First complete mitochondrial genome of a Gripopterygid stonefly from the sub-order Antartoperlaria: <i>Zelandoperla fenestrata</i> . <i>Mitochondrial DNA Part B: Resources</i> , 2019, 4, 886-888. | 0.4 | 2 |
| 99 | The complete mitogenome sequence of the agricultural pest, clover root weevil: the key to its own demise?. <i>Mitochondrial DNA Part B: Resources</i> , 2019, 4, 878-879. | 0.4 | 2 |
| 100 | In Situ Hybridization of Sectioned Honeybee (<i>Apis mellifera</i>) Tissues: Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5226. | 0.3 | 1 |
| 101 | Evo-Devo Lessons Learned from Honeybees. , 2021, , 805-816. | | 1 |
| 102 | Management tools for genetic diversity in an isolated population of the honeybee (<i>Apis mellifera</i>) in New Zealand. <i>Animal Production Science</i> , 2021, , . | 1.3 | 1 |
| 103 | The Developmental Hourglass in the Evolution of Embryogenesis. , 2019, , 1-10. | | 1 |
| 104 | Noggin proteins are multifunctional extracellular regulators of cell signalling. <i>Genetics</i> , 2022, , . | 2.9 | 1 |
| 105 | The Developmental Hourglass in the Evolution of Embryogenesis. , 2021, , 111-120. | | 0 |
| 106 | Evolution and genomic organization of the insect sHSP gene cluster and coordinate regulation in phenotypic plasticity. <i>Bmc Ecology and Evolution</i> , 2021, 21, 154. | 1.6 | 0 |
| 107 | Gene drive and RNAi technologies: a bio-cultural review of next-generation tools for pest wasp management in New Zealand. <i>Journal of the Royal Society of New Zealand</i> , 0, , 1-18. | 1.9 | 0 |
| 108 | Evo-Devo Lessons Learned from Honeybees. , 2018, , 1-12. | | 0 |

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|-----|--|-----|-----------|
| 109 | Hourglass or Twisted Ribbon?. Results and Problems in Cell Differentiation, 2019, 68, 21-29. | 0.7 | 0 |