Bernard Moussian

List of Publications by Year
in descending order

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109 papers	4,597 citations	126907 33 h-index	118850 62 g-index
119 all docs	119 docs citations	119 times ranked	3903 citing authors

#	ARTICLE	IF	CITATIONS
1	The SHOOT MERISTEMLESS gene is required for maintenance of undifferentiated cells in Arabidopsis shoot and floral meristems and acts at a different regulatory level than the meristem genes WUSCHEL and ZWILLE. Plant Journal, 1996, 10, 967-979.	5.7	445
2	Recent advances in understanding mechanisms of insect cuticle differentiation. Insect Biochemistry and Molecular Biology, 2010, 40, 363-375.	2.7	373
3	Role of the ZWILLE gene in the regulation of central shoot meristem cell fate during Arabidopsis embryogenesis. EMBO Journal, 1998, 17, 1799-1809.	7.8	342
4	Dorsoventral Axis Formation in the Drosophila Embryoâ€”Shaping and Transducing a Morphogen Gradient. Current Biology, 2005, 15, R887-R899.	3.9	214
5	Involvement of chitin in exoskeleton morphogenesis inDrosophila melanogaster. Journal of Morphology, 2005, 264, 117-130.	1.2	184
6	Drosophila Knickkopf and Retroactive are needed for epithelial tube growth and cuticle differentiation through their specific requirement for chitin filament organization. Development (Cambridge), 2006, 133, 163-171.	2.5	148
7	Cuticle differentiation during Drosophila embryogenesis. Arthropod Structure and Development, 2006, 35, 137-152.	1.4	121
8	Knickkopf protein protects and organizes chitin in the newly synthesized insect exoskeleton. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17028-17033.	7.1	106
9	A comprehensive omics analysis and functional survey of cuticular proteins in the brown planthopper. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5175-5180.	7.1	99
10	Pri peptides are mediators of ecdysone for the temporal control of development. Nature Cell Biology, 2014, 16, 1035-1044.	10.3	88
11	An F1 Genetic Screen for Maternal-Effect Mutations Affecting Embryonic Pattern Formation in Drosophila melanogaster. Genetics, 2004, 167, 325-342.	2.9	85
12	Effects of benzoylphenylurea on chitin synthesis and orientation in the cuticle of the Drosophila larva. European Journal of Cell Biology, 2009, 88, 167-180.	3.6	77
13	Structural basis for diamide modulation of ryanodine receptor. Nature Chemical Biology, 2020, 16, 1246-1254.	8.0	75
14	Helicoidal Organization of Chitin in the Cuticle of the Migratory Locust Requires the Function of the Chitin Deacetylase2 Enzyme (LmCDA2). Journal of Biological Chemistry, 2016, 291, 24352-24363.	3.4	73
15	Hormonal regulation of mummy is needed for apical extracellular matrix formation and epithelial morphogenesis in Drosophila. Development (Cambridge), 2006, 133, 331-341.	2.5	72
16	The Triple-Repeat Protein Anakonda Controls Epithelial Tricellular Junction Formation in Drosophila. Developmental Cell, 2015, 33, 535-548.	7.0	72
17	Kinase-activity-independent functions of atypical protein kinase C in Drosophila. Journal of Cell Science, 2009, 122, 3759-3771.	2.0	67
18	The role of GlcNAc in formation and function of extracellular matrices. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2008, 149, 215-226.	1.6	60

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19	Nuclear receptor HR3 controls locust molt by regulating chitin synthesis and degradation genes of Locusta migratoria. Insect Biochemistry and Molecular Biology, 2018, 92, 1-11.	2.7	59
20	Chitin: Structure, Chemistry and Biology. Advances in Experimental Medicine and Biology, 2019, 1142, 5-18.	1.6	59
21	Insulin and TOR signal in parallel through FOXO and S6K to promote epithelial wound healing. Nature Communications, 2016, 7, 12972.	12.8	52
22	A feedback mechanism converts individual cell features into a supracellular ECM structure in Drosophila trachea. ELife, 2016, 5, .	6.0	52
23	<i>Drosophila</i> multiplexin (Dmp) modulates motor axon pathfinding accuracy. Development Growth and Differentiation, 2009, 51, 483-498.	1.5	51
24	Regionalization of surface lipids in insects. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152994.	2.6	51
25	LmCYP4G102: An oenocyte-specific cytochrome P450 gene required for cuticular waterproofing in the migratory locust, Locusta migratoria. Scientific Reports, 2016, 6, 29980.	3.3	50
26	Deciphering the Genetic Programme Triggering Timely and Spatially-Regulated Chitin Deposition. PLoS Genetics, 2015, 11, e1004939.	3.5	49
27	The ABC transporter ABCH-9C is needed for cuticle barrier construction in Locusta migratoria. Insect Biochemistry and Molecular Biology, 2017, 87, 90-99.	2.7	49
28	Trafficking through COPII Stabilises Cell Polarity and Drives Secretion during Drosophila Epidermal Differentiation. PLoS ONE, 2010, 5, e10802.	2.5	46
29	The ABC transporter Snu and the extracellular protein Snsl cooperate in the formation of the lipid-based inward and outward barrier in the skin of Drosophila. European Journal of Cell Biology, 2018, 97, 90-101.	3.6	45
30	Krapfen/dMyd88 is required for the establishment of dorsoventral pattern in the Drosophila embryo. Mechanisms of Development, 2003, 120, 219-226.	1.7	43
31	Retroactive, a membrane-anchored extracellular protein related to vertebrate snake neurotoxin-like proteins, is required for cuticle organization in the larva ofDrosophila melanogaster. Developmental Dynamics, 2005, 233, 1056-1063.	1.8	43
32	A functional role of the extracellular domain of Crumbs in cell architecture and apicobasal polarity. Journal of Cell Science, 2013, 126, 2157-63.	2.0	41
33	<i>Drosophila</i> chitinous aECM and its cellular interactions during tracheal development. Developmental Dynamics, 2016, 245, 259-267.	1.8	40
34	Assembly of the Drosophila larval exoskeleton requires controlled secretion and shaping of the apical plasma membrane. Matrix Biology, 2007, 26, 337-347.	3.6	38
35	The apical plasma membrane of chitinâ€synthesizing epithelia. Insect Science, 2013, 20, 139-146.	3.0	37
36	Chitinase 10 controls chitin amounts and organization in the wing cuticle of <i>Drosophila</i>. Insect Science, 2020, 27, 1198-1207.	3.0	37

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37	Drosophila Brakeless Interacts with Atrophin and Is Required for Tailless-Mediated Transcriptional Repression in Early Embryos. PLoS Biology, 2007, 5, e145.	5.6	36
38	The transcription factor Grainy head and the steroid hormone ecdysone cooperate during differentiation of the skin of <i>Drosophila melanogaster</i>. Insect Molecular Biology, 2012, 21, 283-295.	2.0	36
39	LmCDA1 organizes the cuticle by chitin deacetylation in <i>Locusta migratoria</i>. Insect Molecular Biology, 2019, 28, 301-312.	2.0	35
40	Retroactive Maintains Cuticle Integrity by Promoting the Trafficking of Knickkopf into the Procuticle of Tribolium castaneum. PLoS Genetics, 2013, 9, e1003268.	3.5	34
41	Tissue-autonomous EcR functions are required for concurrent organ morphogenesis in the Drosophila embryo. Mechanisms of Development, 2010, 127, 308-319.	1.7	33
42	Double cuticle barrier in two global pests, the whitefly<i>Trialeurodes vaporariorum</i>and the bedbug<i>Cimex lectularius</i>. Journal of Experimental Biology, 2017, 220, 1396-1399.	1.7	33
43	The Arthropod Cuticle. , 2013, , 171-196.		31
44	An ancient control of epithelial barrier formation and wound healing. BioEssays, 2005, 27, 987-990.	2.5	30
45	The putative chitin deacetylases Serpentine and Vermiform have non-redundant functions during Drosophila wing development. Insect Biochemistry and Molecular Biology, 2019, 110, 128-135.	2.7	28
46	The fatty acid elongase gene family in the brown planthopper, Nilaparvata lugens. Insect Biochemistry and Molecular Biology, 2019, 108, 32-43.	2.7	28
47	ZWILLE buffers meristem stability in Arabidopsis thaliana. Development Genes and Evolution, 2003, 213, 534-540.	0.9	27
48	The wing-specific cuticular protein LmACP7 is essential for normal wing morphogenesis in the migratory locust. Insect Biochemistry and Molecular Biology, 2019, 112, 103206.	2.7	27
49	The sulfonylurea receptor Sur is dispensable for chitin synthesis in<i>Drosophila melanogaster</i>embryos. Pest Management Science, 2013, 69, 1136-1140.	3.4	25
50	Dysfunction of Oskyddad causes Harlequin-type ichthyosis-like defects in Drosophila melanogaster. PLoS Genetics, 2020, 16, e1008363.	3.5	25
51	Xenobiotic responses in insects. Archives of Insect Biochemistry and Physiology, 2022, 109, e21869.	1.5	24
52	Î´-Aminolevulinate synthase is required for apical transcellular barrier formation in the skin of the Drosophila larva. European Journal of Cell Biology, 2012, 91, 204-215.	3.6	23
53	Resilin matrix distribution, variability and function in Drosophila. BMC Biology, 2020, 18, 195.	3.8	23
54	Knickkopf and retroactive proteins are required for formation of laminar serosal procuticle during embryonic development of Tribolium castaneum. Insect Biochemistry and Molecular Biology, 2015, 60, 1-6.	2.7	22

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55	Epidermal Cell Surface Structure and Chitinâ€“Protein Co-assembly Determine Fiber Architecture in the Locust Cuticle. ACS Applied Materials & Interfaces, 2020, 12, 25581-25590.	8.0	22
56	Cuticle differentiation in the embryo of the amphipod crustacean Parhyale hawaiensis. Cell and Tissue Research, 2008, 332, 359-370.	2.9	21
57	LmCht5-1 promotes pro-nymphal molting during locust embryonic development. Insect Biochemistry and Molecular Biology, 2018, 101, 124-130.	2.7	21
58	Functional Specialization Among Members Of Knickkopf Family Of Proteins In Insect Cuticle Organization. PLoS Genetics, 2014, 10, e1004537.	3.5	19
59	Composite Eggshell Matrices: Chorionic Layers and Sub-chorionic Cuticular Envelopes. , 2016, , 325-366.		19
60	Chitin synthase 1 and five cuticle protein genes are involved in serosal cuticle formation during early embryogenesis to enhance eggshells in <i>Nilaparvata lugens</i>. Insect Science, 2022, 29, 363-378.	3.0	19
61	Timed Knickkopf function is essential for wing cuticle formation in Drosophila melanogaster. Insect Biochemistry and Molecular Biology, 2017, 89, 1-10.	2.7	18
62	Ecoâ€genetics of desiccation resistance in <i>Drosophila</i>. Biological Reviews, 2021, 96, 1421-1440.	10.4	18
63	WollknaÌˆuel is required for embryo patterning and encodes the<i>Drosophila</i>ALG5 UDP-glucose:dolichyl-phosphate glucosyltransferase. Development (Cambridge), 2008, 135, 1745-1749.	2.5	16
64	Report on <scp><i>D</i></scp><i>rosophila melanogaster</i> larvae without functional tracheae. Journal of Zoology, 2015, 296, 139-145.	1.7	16
65	Ten fatty acylâ€CoA reductase family genes were essential for the survival of the destructive rice pest, <scp>Nilaparvata lugens</scp>. Pest Management Science, 2020, 76, 2304-2315.	3.4	16
66	Three-dimensional reconstruction of a whole insect reveals its phloem sap-sucking mechanism at nano-resolution. ELife, 2021, 10, .	6.0	16
67	The apical plasma membrane of Drosophila embryonic epithelia. European Journal of Cell Biology, 2010, 89, 208-211.	3.6	15
68	INHIBITION OF FATTY ACID DESATURASES IN <i>Drosophila melanogaster</i> LARVAE BLOCKS FEEDING AND DEVELOPMENTAL PROGRESSION. Archives of Insect Biochemistry and Physiology, 2016, 92, 6-23.	1.5	15
69	The putative C-type lectin Schlaff ensures epidermal barrier compactness in Drosophila. Scientific Reports, 2019, 9, 5374.	3.3	15
70	Future questions in insect chitin biology: A microreview. Archives of Insect Biochemistry and Physiology, 2018, 98, e21454.	1.5	14
71	Two fatty acid synthase genes from the integument contribute to cuticular hydrocarbon biosynthesis and cuticle permeability in <scp><i>Locusta migratoria</i></scp>. Insect Molecular Biology, 2020, 29, 555-568.	2.0	14
72	Transcriptional Control of Quality Differences in the Lipid-Based Cuticle Barrier in Drosophila suzukii and Drosophila melanogaster. Frontiers in Genetics, 2020, 11, 887.	2.3	14

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73	Toxicity of Dithiothreitol (DTT) to Drosophila melanogaster. Toxicology Reports, 2021, 8, 124-130.	3.3	14
74	The Alg5 ortholog WollknÃuel is essential for correct epidermal differentiation during Drosophila late embryogenesis. Glycobiology, 2011, 21, 743-756.	2.5	13
75	The fatty acid elongase gene LmELO7 is required for hydrocarbon biosynthesis and cuticle permeability in the migratory locust, Locusta migratoria. Journal of Insect Physiology, 2020, 123, 104052.	2.0	12
76	Boudin trafficking reveals the dynamic internalisation of specific septate junction components in Drosophila. PLoS ONE, 2017, 12, e0185897.	2.5	12
77	The cuticle inward barrier in<i>Drosophila melanogaster</i>is shaped by mitochondrial and nuclear genotypes and a sex-specific effect of diet. PeerJ, 2019, 7, e7802.	2.0	12
78	<i>Drosophila</i>Kette/Nap1/Hem-2 coordinates myoblast junction dissolution and the Scar-WASp ratio during myoblast fusion. Journal of Cell Science, 2016, 129, 3426-36.	2.0	11
79	Musca domestica (Diptera: Muscidae) as a biological model for the assessment of magnetite nanoparticles toxicity. Science of the Total Environment, 2022, 806, 151483.	8.0	11
80	Autophagyâ€“mediated plasma membrane removal promotes the formation of epithelial syncytia. EMBO Journal, 2022, 41, e109992.	7.8	11
81	Localization and Activation of the Drosophila Protease Easter Require the ER-Resident Saposin-like Protein Seele. Current Biology, 2010, 20, 1953-1958.	3.9	10
82	The fruit fly Drosophila melanogaster as an innovative preclinical ADME model for solute carrier membrane transporters, with consequences for pharmacology and drug therapy. Drug Discovery Today, 2018, 23, 1746-1760.	6.4	10
83	Tweedle proteins form extracellular two-dimensional structures defining body and cell shape in <i>Drosophila melanogaster</i>. Open Biology, 2020, 10, 200214.	3.6	10
84	Roles of LmCDA1 and LmCDA2 in cuticle formation in the foregut and hindgut of <i>Locusta migratoria</i>. Insect Science, 2021, 28, 1314-1325.	3.0	9
85	Apolipophorin-II/I Contributes to Cuticular Hydrocarbon Transport and Cuticle Barrier Construction in Locusta migratoria. Frontiers in Physiology, 2020, 11, 790.	2.8	9
86	THE KNICKKOPF DOMON DOMAIN IS ESSENTIAL FOR CUTICLE DIFFERENTIATION IN <i>Drosophila melanogaster</i>. Archives of Insect Biochemistry and Physiology, 2014, 86, 100-106.	1.5	8
87	Putative orthologues of genetically identified Drosophila melanogaster chitin producing and organising genes in Apis mellifera. Apidologie, 2014, 45, 733-747.	2.0	6
88	Trynity models a tube valve in the Drosophila larval airway system. Developmental Biology, 2018, 437, 75-83.	2.0	6
89	A lateral oviduct secreted protein plays a vital role for egg movement through the female reproductive tract in the brown planthopper. Insect Biochemistry and Molecular Biology, 2021, 132, 103555.	2.7	6
90	Flexible manipulation of Omb levels in the endogenous expression region of <i>Drosophila</i> wing by combinational overexpression and suppression strategy. Insect Science, 2020, 27, 14-21.	3.0	5

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91	Group I CDAs are responsible for a selective CHC-independent cuticular barrier in Locusta migratoria. Pesticide Biochemistry and Physiology, 2021, 175, 104854.	3.6	5
92	Inhibition of fatty acid desaturation impairs cuticle differentiation in <i>Drosophila melanogaster</i>. Archives of Insect Biochemistry and Physiology, 2019, 100, e21535.	1.5	4
93	Drosophila, Chitin and Insect Pest Management. Current Pharmaceutical Design, 2020, 26, 3546-3553.	1.9	4
94	Imidacloprid-induced pathophysiological damage in the midgut of Locusta migratoria (Orthoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.3	4
95	Fluorescent Microscopy-Based Detection of Chitin in Intact Drosophila melanogaster. Frontiers in Physiology, 2022, 13, 856369.	2.8	4
96	<i>Resilin</i> is needed for wing posture in <i>Drosophila suzukii</i>. Archives of Insect Biochemistry and Physiology, 0, , .	1.5	4
97	Molecular Model of Skeletal Organization and Differentiation. , 2016, , 67-87.		3
98	Cuticular body hairs mediate clumping of small Camponotus floridanus larvae. Arthropod Structure and Development, 2017, 46, 108-115.	1.4	3
99	Effect of RNAi â€·mediated silencing of two Knickkopf family genes (LmKnk2 and LmKnk3) on cuticle formation and insecticide susceptibility in Locusta migratoria. Pest Management Science, 2020, 76, 2907-2917.	3.4	3
100	Three-dimensional reconstruction of pore canals in the cuticle of the brown planthopper. Science China Life Sciences, 2021, 64, 1992-1994.	4.9	3
101	Ratio between Lactobacillus plantarum and Acetobacter pomorum on the surface of Drosophila melanogaster adult flies depends on cuticle melanisation. BMC Research Notes, 2021, 14, 351.	1.4	3
102	The <scp>DOMON</scp> domain protein <scp>LmKnk</scp> contributes to correct chitin content, pore canal formation and lipid deposition in the cuticle of <i>Locusta migratoria</i> during moulting. Insect Molecular Biology, 2022, 31, 127-138.	2.0	3
103	CYP311A1 in the anterior midgut is involved in lipid distribution and microvillus integrity in Drosophila melanogaster. Cellular and Molecular Life Sciences, 2022, 79, 261.	5.4	3
104	Differentiated muscles are mandatory for gas-filling of the Drosophila airway system. Biology Open, 2015, 4, 1753-1761.	1.2	2
105	Taking peer review seriously. EMBO Reports, 2016, 17, 617-617.	4.5	1
106	The arthropod cuticle â€“ A never-ending endeavor. Arthropod Structure and Development, 2017, 46, 2-3.	1.4	0
107	Cover Image, Volume 76, Issue 7. Pest Management Science, 2020, 76, i.	3.4	0
108	The apical plasma membrane of chitin-synthesising epithelia. Insect Science, 2012, , no-no.	3.0	0

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109	Structural basis for diamide modulation of ryanodine receptor. Journal of General Physiology, 2022, 154, .	1.9	0