# Paul Schedl

List of Publications by Year
in descending order



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|---|---|---|---|
| 96 papers | 5,500 citations | 117453 34 h-index | 91712 69 g-index |
| 104 all docs | 104 docs citations | 104 times ranked | 2848 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A position-effect assay for boundaries of higher order chromosomal domains. Cell, 1991, 64, 941-950. | 13.5 | 630 |
| 2 | Sex-lethal, a Drosophila sex determination switch gene, exhibits sex-specific RNA splicing and sequence similarity to RNA binding proteins. Cell, 1988, 55, 1037-1046. | 13.5 | 483 |
| 3 | Positive autoregulation of Sex-lethal by alternative splicing maintains the female determined state in Drosophila. Cell, 1991, 65, 229-239. | 13.5 | 354 |
| 4 | The primary sex determination signal of Drosophila acts at the level of transcription. Cell, 1992, 68, 933-943. | 13.5 | 244 |
| 5 | A Polycomb and GAGA Dependent Silencer Adjoins the Fab-7 Boundary in the Drosophila Bithorax Complex. Genetics, 1997, 146, 1365-1380. | 1.2 | 195 |
| 6 | Protein:protein interactions and the pairing of boundary elements in vivo. Genes and Development, 2003, 17, 664-675. | 2.7 | 174 |
| 7 | The iab-7 Polycomb Response Element Maps to a Nucleosome-Free Region of Chromatin and Requires Both GAGA and Pleiohomeotic for Silencing Activity. Molecular and Cellular Biology, 2001, 21, 1311-1318. | 1.1 | 168 |
| 8 | Functional Changes Associated with Structural Alterations Induced by Mobilization of a P Element Inserted in the Sex-lethal Gene of Drosophila. Genetics, 1987, 117, 221-231. | 1.2 | 163 |
| 9 | The Drosophila CPEB Homolog, Orb, Is Required for Oskar Protein Expression in Oocytes. Developmental Biology, 1999, 215, 91-106. | 0.9 | 146 |
| 10 | The Mcp Element From the Drosophila melanogaster Bithorax Complex Mediates Long-Distance Regulatory Interactions. Genetics, 1999, 153, 1333-1356. | 1.2 | 129 |
| 11 | Analysis of the Doublesex Female Protein in Drosophila melanogaster: Role in Sexual Differentiation and Behavior and Dependence on Intersex. Genetics, 1999, 152, 1653-1667. | 1.2 | 114 |
| 12 | HYBRID DYSGENESIS-INDUCED REVERTANTS OF INSERTIONS AT THE 5' END OF THE RUDIMENTARY GENE IN DROSOPHILA MELANOGASTER: TRANSPOSON-INDUCED CONTROL MUTATIONS. Genetics, 1986, 114, 165-182. | 1.2 | 104 |
| 13 | The Enhancer-Blocking Activity of the Fab-7 Boundary From the Drosophila Bithorax Complex Requires GAGA-Factor-Binding Sites. Genetics, 2004, 168, 1371-1384. | 1.2 | 101 |
| 14 | The Drosophila Fragile X Protein Functions as a Negative Regulator in the orb Autoregulatory Pathway. Developmental Cell, 2005, 8, 331-342. | 3.1 | 94 |
| 15 | The Tollâ†'NFÎºB Signaling Pathway Mediates the Neuropathological Effects of the Human Alzheimer's AÎ²42 Polypeptide in Drosophila. PLoS ONE, 2008, 3, e3966. | 1.1 | 94 |
| 16 | Making connections: Insulators organize eukaryotic chromosomes into independent cisâ€regulatory networks. BioEssays, 2014, 36, 163-172. | 1.2 | 87 |
| 17 | Transvection in the Drosophila Abd-B Domain: Extensive Upstream Sequences Are Involved in Anchoring Distant cis-Regulatory Regions to the Promoter. Genetics, 1998, 149, 1031-1050. | 1.2 | 84 |
| 18 | Architecture of a Polycomb Nucleoprotein Complex. Molecular Cell, 2006, 24, 91-100. | 4.5 | 83 |

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|---|---|---|---|
| 19 | Evolution ofDrosophila repetitive-dispersed DNA. Journal of Molecular Evolution, 1983, 19, 203-213. | 0.8 | 81 |
| 20 | Hedgehog Signaling in Germ Cell Migration. Cell, 2001, 106, 759-769. | 13.5 | 81 |
| 21 | Determinants of Chromosome Architecture: Insulator Pairing in cis and in trans. PLoS Genetics, 2016, 12, e1005889. | 1.5 | 67 |
| 22 | Functional role of dimerization and CP190 interacting domains of CTCF protein in Drosophila melanogaster. BMC Biology, 2015, 13, 63. | 1.7 | 62 |
| 23 | Chromatin organization of the 87A7 heat shock locus of Drosophila melanogaster. Journal of Molecular Biology, 1984, 172, 385-403. | 2.0 | 60 |
| 24 | Nanos downregulates transcription and modulates CTD phosphorylation in the soma of early Drosophila embryos. Mechanisms of Development, 2005, 122, 645-657. | 1.7 | 59 |
| 25 | Isolation of the dorsal locus of Drosophila. Nature, 1984, 311, 262-265. | 13.7 | 58 |
| 26 | Functioning of the Drosophila orb gene in gurken mRNA localization and translation. Development (Cambridge), 2001, 128, 3169-3177. | 1.2 | 58 |
| 27 | The boundary paradox in the Bithorax complex. Mechanisms of Development, 2015, 138, 122-132. | 1.7 | 53 |
| 28 | Overlapping mechanisms function to establish transcriptional quiescence in the embryonic Drosophila germline. Development (Cambridge), 2004, 131, 1247-1257. | 1.2 | 51 |
| 29 | Functional Requirements for Fab-7 Boundary Activity in the Bithorax Complex. Molecular and Cellular Biology, 2015, 35, 3739-3752. | 1.1 | 51 |
| 30 | Boundaries of loop domains (insulators): Determinants of chromosome form and function in multicellular eukaryotes. BioEssays, 2017, 39, 1600233. | 1.2 | 47 |
| 31 | Mechanism of Chromosomal Boundary Action: Roadblock, Sink, or Loop?. Genetics, 2011, 187, 731-748. | 1.2 | 46 |
| 32 | Deletion of an Insulator Element by the Mutation facet-strawberry in Drosophila melanogaster. Genetics, 2000, 155, 1297-1311. | 1.2 | 46 |
| 33 | Elba, a novel developmentally regulated chromatin boundary factor is a hetero-tripartite DNA binding complex. ELife, 2012, 1, e00171. | 2.8 | 44 |
| 34 | Developmental modulation of Fab-7 boundary function. Development (Cambridge), 2004, 131, 4743-4749. | 1.2 | 42 |
| 35 | Functional Dissection of the Blocking and Bypass Activities of the Fab-8 Boundary in the Drosophila Bithorax Complex. PLoS Genetics, 2016, 12, e1006188. | 1.5 | 41 |
| 36 | The GAGA factor regulatory network: Identification of GAGA factor associated proteins. PLoS ONE, 2017, 12, e0173602. | 1.1 | 41 |

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| 37 | The CPEB Protein Orb2 Has Multiple Functions during Spermatogenesis in Drosophila melanogaster. PLoS Genetics, 2012, 8, e1003079. | 1.5 | 40 |
| 38 | GAGA factor: a multifunctional pioneering chromatin protein. Cellular and Molecular Life Sciences, 2021, 78, 4125-4141. | 2.4 | 37 |
| 39 | The Drosophila CPEB Protein Orb2 Has a Novel Expression Pattern and Is Important for Asymmetric Cell Division and Nervous System Function. Genetics, 2011, 189, 907-921. | 1.2 | 36 |
| 40 | Functioning of the Drosophila Wilms'-Tumor-1-Associated Protein Homolog, Fl(2)d, in Sex-Lethal-Dependent Alternative Splicing. Genetics, 2008, 178, 737-748. | 1.2 | 35 |
| 41 | Transcriptional read-through is not sufficient to induce an epigenetic switch in the silencing activity of Polycomb response elements. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14930-14935. | 3.3 | 35 |
| 42 | GAGA Factor Isoforms Have Distinct but Overlapping Functions In Vivo. Molecular and Cellular Biology, 2001, 21, 8565-8574. | 1.1 | 32 |
| 43 | Boundaries mediate long-distance interactions between enhancers and promoters in the Drosophila Bithorax complex. PLoS Genetics, 2018, 14, e1007702. | 1.5 | 32 |
| 44 | The insulator functions of the Drosophila polydactyl C2H2 zinc finger protein CTCF: Necessity versus sufficiency. Science Advances, 2020, 6, eaaz3152. | 4.7 | 31 |
| 45 | HMGCoA reductase Potentiates hedgehog Signaling in Drosophila melanogaster. Developmental Cell, 2005, 9, 629-638. | 3.1 | 30 |
| 46 | Establishment of a Developmental Compartment Requires Interactions between Three Synergistic Cis-regulatory Modules. PLoS Genetics, 2015, 11, e1005376. | 1.5 | 29 |
| 47 | Architectural protein Pita cooperates with dCTCF in organization of functional boundaries in Bithorax Complex. Development (Cambridge), 2017, 144, 2663-2672. | 1.2 | 29 |
| 48 | Complete reconstitution of bypass and blocking functions in a minimal artificial Fab-7 insulator from Drosophila bithorax complex. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13462-13467. | 3.3 | 29 |
| 49 | Enhancer Blocking and Transvection at the DrosophilaapterousLocus. Genetics, 2008, 178, 127-143. | 1.2 | 28 |
| 50 | Transcription of adenovirus and HeLa cell genes in the presence of drugs that inhibit topoisomerase I and II function. Nucleic Acids Research, 1990, 18, 1499-1508. | 6.5 | 26 |
| 51 | A Stage-Specific Factor Confers Fab-7 Boundary Activity during Early Embryogenesis in Drosophila. Molecular and Cellular Biology, 2008, 28, 1047-1060. | 1.1 | 26 |
| 52 | The bithorax complex iab-7 Polycomb response element has a novel role in the functioning of the Fab-7 chromatin boundary. PLoS Genetics, 2018, 14, e1007442. | 1.5 | 26 |
| 53 | The Functioning of the Drosophila CPEB Protein Orb Is Regulated by Phosphorylation and Requires Casein Kinase 2 Activity. PLoS ONE, 2011, 6, e24355. | 1.1 | 26 |
| 54 | Cup Blocks the Precocious Activation of the Orb Autoregulatory Loop. PLoS ONE, 2011, 6, e28261. | 1.1 | 25 |

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| 55 | The Drosophila CPEB Protein Orb Specifies Oocyte Fate by a 3â€²UTR-Dependent Autoregulatory Loop. Genetics, 2019, 213, 1431-1446. | 1.2 | 25 |
| 56 | The Translation Initiation Factor eIF4E Regulates the Sex-Specific Expression of the Master Switch Gene Sxl in Drosophila melanogaster. PLoS Genetics, 2011, 7, e1002185. | 1.5 | 24 |
| 57 | Germ Cell-less Promotes Centrosome Segregation to Induce Germ Cell Formation. Cell Reports, 2017, 18, 831-839. | 2.9 | 24 |
| 58 | The role of CPEB family proteins in the nervous system function in the norm and pathology. Cell and Bioscience, 2021, 11, 64. | 2.1 | 24 |
| 59 | Drosophila Dosage Compensation Loci Associate with a Boundary-Forming Insulator Complex. Molecular and Cellular Biology, 2017, 37, . | 1.1 | 23 |
| 60 | Spermatid Cyst Polarization in Drosophila Depends upon apkc and the CPEB Family Translational Regulator orb2. PLoS Genetics, 2014, 10, e1004380. | 1.5 | 22 |
| 61 | Gî³1, a Downstream Target for the hmgcr-Isoprenoid Biosynthetic Pathway, Is Required for Releasing the Hedgehog Ligand and Directing Germ Cell Migration. PLoS Genetics, 2009, 5, e1000333. | 1.5 | 21 |
| 62 | Establishment of stem cell identity in theDrosophila germline. , 1997, 210, 371-382. | | 19 |
| 63 | Distinct Elements Confer the Blocking and Bypass Functions of the Bithorax Fab-8 Boundary. Genetics, 2019, 213, 865-876. | 1.2 | 18 |
| 64 | The hedgehog Pathway Gene shifted Functions together with the hmgcr-Dependent Isoprenoid Biosynthetic Pathway to Orchestrate Germ Cell Migration. PLoS Genetics, 2013, 9, e1003720. | 1.5 | 17 |
| 65 | Wnt Signaling in Sexual Dimorphism. Genetics, 2016, 202, 661-673. | 1.2 | 17 |
| 66 | Bi-functional cross-linking reagents efficiently capture protein-DNA complexes inDrosophilaembryos. Fly, 2014, 8, 43-51. | 0.9 | 16 |
| 67 | Rasputin Functions as a Positive Regulator of Orb in Drosophila Oogenesis. PLoS ONE, 2013, 8, e72864. | 1.1 | 15 |
| 68 | BMP Signaling and the Maintenance of Primordial Germ Cell Identity in Drosophila Embryos. PLoS ONE, 2014, 9, e88847. | 1.1 | 15 |
| 69 | TheDrosophila melanogasterMutantsapblotandapXastaAffect an EssentialapterousWing Enhancer. G3: Genes, Genomes, Genetics, 2015, 5, 1129-1143. | 0.8 | 15 |
| 70 | BEN-solo factors partition active chromatin to ensure proper gene activation in Drosophila. Nature Communications, 2019, 10, 5700. | 5.8 | 15 |
| 71 | Establishing and maintaining cell polarity with mRNA localization in Drosophila. BioEssays, 2016, 38, 244-253. | 1.2 | 14 |
| 72 | Different Evolutionary Strategies To Conserve Chromatin Boundary Function in the Bithorax Complex. Genetics, 2017, 205, 589-603. | 1.2 | 14 |

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| 73 | Functional dissection of the developmentally restricted BEN domain chromatin boundary factor Insensitive. Epigenetics and Chromatin, 2019, 12, 2. | 1.8 | 14 |
| 74 | Mapping of functional elements of the Fab-6 boundary involved in the regulation of the Abd-B hox gene in Drosophila melanogaster. Scientific Reports, 2021, 11, 4156. | 1.6 | 14 |
| 75 | Boundaries potentiate polycomb response element-mediated silencing. BMC Biology, 2021, 19, 113. | 1.7 | 14 |
| 76 | Transcriptional quiescence in primordial germ cells. Critical Reviews in Biochemistry and Molecular Biology, 2018, 53, 579-595. | 2.3 | 12 |
| 77 | The BEN Domain Protein Insensitive Binds to the Fab-7 Chromatin Boundary To Establish Proper Segmental Identity in Drosophila. Genetics, 2018, 210, 573-585. | 1.2 | 12 |
| 78 | Preformation and epigenesis converge to specify primordial germ cell fate in the early Drosophila embryo. PLoS Genetics, 2022, 18, e1010002. | 1.5 | 11 |
| 79 | Mapping parameter spaces of biological switches. PLoS Computational Biology, 2021, 17, e1008711. | 1.5 | 10 |
| 80 | CLAMP regulates zygotic genome activation in Drosophila embryos. Genetics, 2021, 219, . | 1.2 | 10 |
| 81 | toutvelu, a Regulator of Heparan Sulfate Proteoglycan Biosynthesis, Controls Guidance Cues for Germ-Cell Migration. Genetics, 2007, 176, 905-912. | 1.2 | 9 |
| 82 | The CPEB translational regulator, Orb, functions together with Par proteins to polarize the Drosophila oocyte. PLoS Genetics, 2019, 15, e1008012. | 1.5 | 9 |
| 83 | Functioning of an ABC transporter, Mdr49, in Hh signaling and germ cell migration. Development (Cambridge), 2016, 143, 2111-20. | 1.2 | 7 |
| 84 | Paip2 is localized to active promoters and loaded onto nascent mRNA in Drosophila. Cell Cycle, 2018, 17, 1708-1720. | 1.3 | 6 |
| 85 | Paip2 cooperates with Cbp80 at an active promoter and participates in RNA Polymerase II phosphorylation in Drosophila. FEBS Letters, 2019, 593, 1102-1112. | 1.3 | 6 |
| 86 | Subunits of the PBAP Chromatin Remodeler Are Capable of Mediating Enhancer-Driven Transcription in Drosophila. International Journal of Molecular Sciences, 2021, 22, 2856. | 1.8 | 6 |
| 87 | The 3â€²UTR of the Drosophila CPEB translation factor gene orb2 plays a crucial role in spermatogenesis. Development (Cambridge), 2021, 148, . | 1.2 | 5 |
| 88 | Redundant enhancers in the iab-5 domain cooperatively activate Abd-B in the A5 and A6 abdominal segments of Drosophila. Development (Cambridge), 2021, 148, . | 1.2 | 5 |
| 89 | Two domains and one RNA: a molecular threesome. , 1999, 6, 499-502. | | 4 |
| 90 | Cells on the move: Modulation of guidance cues during germ cell migration. Fly, 2017, 11, 200-207. | 0.9 | 4 |

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|---|---|---|---|
| 91 | Molecular characterization of the 5â€² end of therudimentarygene inDrosophilaand analysis of three P element insertions. Nucleic Acids Research, 1992, 20, 4639-4647. | 6.5 | 3 |
| 92 | Functional analysis of Niemann-Pick disease type C family protein, NPC1a, in Drosophila melanogaster. Development (Cambridge), 2019, 146, . | 1.2 | 3 |
| 93 | Antagonism between germ cell-less and Torso receptor regulates transcriptional quiescence underlying germline/soma distinction. ELife, 2021, 10, . | 2.8 | 3 |
| 94 | Conservation signals location. Nature, 2001, 414, 593-594. | 13.7 | 1 |
| 95 | Two non-gypsy rudimentary mutations and their suppression by mutations of suppressor of Hairy-wing in Drosophila. Molecular Genetics and Genomics, 1992, 235, 441-449. | 2.4 | 0 |
| 96 | Xenotransplantation exposes the etiology of azoospermia factor (AZF) induced male sterility. BioEssays, 2015, 37, 278-283. | 1.2 | 0 |