

Tom Maniatis

List of Publications by Citations

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180
papers

56,824
citations

114
h-index

191
g-index

191
ext. papers

61,657
ext. citations

30.6
avg, IF

7.46
L-index

| # | Paper | IF | Citations |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 180 | An RNA-sequencing transcriptome and splicing database of glia, neurons, and vascular cells of the cerebral cortex. <i>Journal of Neuroscience</i> , 2014 , 34, 11929-47 | 6.6 | 2837 |
| 179 | IKKepsilon and TBK1 are essential components of the IRF3 signaling pathway. <i>Nature Immunology</i> , 2003 , 4, 491-6 | 19.1 | 1987 |
| 178 | The ubiquitin-proteasome pathway is required for processing the NF-kappa B1 precursor protein and the activation of NF-kappa B. <i>Cell</i> , 1994 , 78, 773-85 | 56.2 | 1962 |
| 177 | The isolation of structural genes from libraries of eucaryotic DNA. <i>Cell</i> , 1978 , 15, 687-701 | 56.2 | 1870 |
| 176 | Transcriptional regulation of endothelial cell adhesion molecules: NF-B and cytokine-inducible enhancers. <i>FASEB Journal</i> , 1995 , 9, 899-909 | 0.9 | 1487 |
| 175 | Transformation of mammalian cells with genes from procaryotes and eucaryotes. <i>Cell</i> , 1979 , 16, 777-85 | 56.2 | 1478 |
| 174 | NF-kappa B: a lesson in family values. <i>Cell</i> , 1995 , 80, 529-32 | 56.2 | 1191 |
| 173 | Identification of two distinct regulatory regions adjacent to the human beta-interferon gene. <i>Cell</i> , 1983 , 34, 865-79 | 56.2 | 1098 |
| 172 | Transcriptional activation: a complex puzzle with few easy pieces. <i>Cell</i> , 1994 , 77, 5-8 | 56.2 | 1093 |
| 171 | The MicroRNA miR-124 promotes neuronal differentiation by triggering brain-specific alternative pre-mRNA splicing. <i>Molecular Cell</i> , 2007 , 27, 435-48 | 17.6 | 1068 |
| 170 | The isolation and characterization of linked delta- and beta-globin genes from a cloned library of human DNA. <i>Cell</i> , 1978 , 15, 1157-74 | 56.2 | 1044 |
| 169 | Inborn errors of type I IFN immunity in patients with life-threatening COVID-19. <i>Science</i> , 2020 , 370, | 33.3 | 994 |
| 168 | An extensive network of coupling among gene expression machines. <i>Nature</i> , 2002 , 416, 499-506 | 50.4 | 925 |
| 167 | Site-specific phosphorylation of IkappaBalpha by a novel ubiquitination-dependent protein kinase activity. <i>Cell</i> , 1996 , 84, 853-62 | 56.2 | 875 |
| 166 | Virus induction of human IFN beta gene expression requires the assembly of an enhanceosome. <i>Cell</i> , 1995 , 83, 1091-100 | 56.2 | 846 |
| 165 | Excision of an intact intron as a novel lariat structure during pre-mRNA splicing in vitro. <i>Cell</i> , 1984 , 38, 317-31 | 56.2 | 751 |
| 164 | NF-kappaB signaling pathways in mammalian and insect innate immunity. <i>Genes and Development</i> , 2001 , 15, 2321-42 | 12.6 | 726 |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 163 | Normal and mutant human beta-globin pre-mRNAs are faithfully and efficiently spliced in vitro. <i>Cell</i> , 1984 , 36, 993-1005 | 56.2 | 684 |
| 162 | Activation of the I kappa B alpha kinase complex by MEKK1, a kinase of the JNK pathway. <i>Cell</i> , 1997 , 88, 213-22 | 56.2 | 675 |
| 161 | Detection and localization of single base changes by denaturing gradient gel electrophoresis. <i>Methods in Enzymology</i> , 1987 , 155, 501-27 | 1.7 | 661 |
| 160 | Factor required for mammalian spliceosome assembly is localized to discrete regions in the nucleus. <i>Nature</i> , 1990 , 343, 437-41 | 50.4 | 658 |
| 159 | Specific interactions between proteins implicated in splice site selection and regulated alternative splicing. <i>Cell</i> , 1993 , 75, 1061-70 | 56.2 | 655 |
| 158 | Virus infection induces the assembly of coordinately activated transcription factors on the IFN-beta enhancer in vivo. <i>Molecular Cell</i> , 1998 , 1, 507-18 | 17.6 | 644 |
| 157 | Identification of DNA sequences required for transcription of the human alpha 1-globin gene in a new SV40 host-vector system. <i>Cell</i> , 1981 , 27, 279-88 | 56.2 | 644 |
| 156 | Exome sequencing in amyotrophic lateral sclerosis identifies risk genes and pathways. <i>Science</i> , 2015 , 347, 1436-41 | 33.3 | 642 |
| 155 | Non-cell autonomous effect of glia on motor neurons in an embryonic stem cell-based ALS model. <i>Nature Neuroscience</i> , 2007 , 10, 608-14 | 25.5 | 626 |
| 154 | Ordered recruitment of chromatin modifying and general transcription factors to the IFN-beta promoter. <i>Cell</i> , 2000 , 103, 667-78 | 56.2 | 625 |
| 153 | Alternative pre-mRNA splicing and proteome expansion in metazoans. <i>Nature</i> , 2002 , 418, 236-43 | 50.4 | 615 |
| 152 | The high mobility group protein HMG I(Y) is required for NF-kappa B-dependent virus induction of the human IFN-beta gene. <i>Cell</i> , 1992 , 71, 777-89 | 56.2 | 613 |
| 151 | CRISPR Inversion of CTCF Sites Alters Genome Topology and Enhancer/Promoter Function. <i>Cell</i> , 2015 , 162, 900-10 | 56.2 | 612 |
| 150 | The role of small nuclear ribonucleoprotein particles in pre-mRNA splicing. <i>Nature</i> , 1987 , 325, 673-8 | 50.4 | 601 |
| 149 | Specific transcription and RNA splicing defects in five cloned beta-thalassaemia genes. <i>Nature</i> , 1983 , 302, 591-6 | 50.4 | 595 |
| 148 | A striking organization of a large family of human neural cadherin-like cell adhesion genes. <i>Cell</i> , 1999 , 97, 779-90 | 56.2 | 566 |
| 147 | Human beta-globin pre-mRNA synthesized in vitro is accurately spliced in <i>Xenopus</i> oocyte nuclei. <i>Cell</i> , 1983 , 32, 681-94 | 56.2 | 510 |
| 146 | The chromosomal arrangement of human alpha-like globin genes: sequence homology and alpha-globin gene deletions. <i>Cell</i> , 1980 , 20, 119-30 | 56.2 | 510 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 145 | Structure-based prediction of protein-protein interactions on a genome-wide scale. <i>Nature</i> , 2012 , 490, 556-60 | 50.4 | 508 |
| 144 | Nearly all single base substitutions in DNA fragments joined to a GC-clamp can be detected by denaturing gradient gel electrophoresis. <i>Nucleic Acids Research</i> , 1985 , 13, 3131-45 | 20.1 | 491 |
| 143 | The involvement of NF-kappa B in beta-interferon gene regulation reveals its role as widely inducible mediator of signal transduction. <i>Cell</i> , 1989 , 57, 287-94 | 56.2 | 484 |
| 142 | A role for exon sequences and splice-site proximity in splice-site selection. <i>Cell</i> , 1986 , 46, 681-90 | 56.2 | 468 |
| 141 | Multiple factors including the small nuclear ribonucleoproteins U1 and U2 are necessary for pre-mRNA splicing in vitro. <i>Cell</i> , 1985 , 42, 725-36 | 56.2 | 466 |
| 140 | An atomic model of the interferon-beta enhanceosome. <i>Cell</i> , 2007 , 129, 1111-23 | 56.2 | 452 |
| 139 | IFN-regulatory factor 3-dependent gene expression is defective in Tbk1-deficient mouse embryonic fibroblasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 233-8 | 11.5 | 450 |
| 138 | Mechanisms of transcriptional synergism between distinct virus-inducible enhancer elements. <i>Cell</i> , 1993 , 74, 887-98 | 56.2 | 437 |
| 137 | The primary structure of rabbit beta-globin mRNA as determined from cloned DNA. <i>Cell</i> , 1977 , 10, 571-85 | 56.2 | 421 |
| 136 | GAL4 activates transcription in <i>Drosophila</i> . <i>Nature</i> , 1988 , 332, 853-6 | 50.4 | 419 |
| 135 | Molecular cloning and characterization of the human beta-like globin gene cluster. <i>Cell</i> , 1980 , 19, 959-72 | 56.2 | 418 |
| 134 | The human beta-interferon gene enhancer is under negative control. <i>Cell</i> , 1986 , 45, 601-10 | 56.2 | 414 |
| 133 | Axonal transport of TDP-43 mRNA granules is impaired by ALS-causing mutations. <i>Neuron</i> , 2014 , 81, 536-543 | 11.5 | 408 |
| 132 | Intron sequences involved in lariat formation during pre-mRNA splicing. <i>Cell</i> , 1985 , 41, 95-105 | 56.2 | 399 |
| 131 | Transcriptional activation of cloned human beta-globin genes by viral immediate-early gene products. <i>Cell</i> , 1983 , 35, 137-48 | 56.2 | 385 |
| 130 | MEKK1 activates both IkappaB kinase alpha and IkappaB kinase beta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 9319-24 | 11.5 | 360 |
| 129 | A single-base change at a splice site in a beta 0-thalassemic gene causes abnormal RNA splicing. <i>Cell</i> , 1982 , 29, 903-11 | 56.2 | 352 |
| 128 | Detection of single base substitutions in total genomic DNA. <i>Nature</i> , 1985 , 313, 495-8 | 50.4 | 348 |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 127 | Single-molecule imaging of transcription factor binding to DNA in live mammalian cells. <i>Nature Methods</i> , 2013 , 10, 421-6 | 21.6 | 345 |
| 126 | The proteasome pathway is required for cytokine-induced endothelial-leukocyte adhesion molecule expression. <i>Immunity</i> , 1995 , 2, 493-506 | 32.3 | 318 |
| 125 | A splicing enhancer complex controls alternative splicing of doublesex pre-mRNA. <i>Cell</i> , 1993 , 74, 105-14 | 56.2 | 317 |
| 124 | Differences in human alpha- and beta-globin gene expression in mouse erythroleukemia cells: the role of intragenic sequences. <i>Cell</i> , 1984 , 38, 251-63 | 56.2 | 313 |
| 123 | Enzymatic in vitro synthesis of globin genes. <i>Cell</i> , 1976 , 7, 279-88 | 56.2 | 308 |
| 122 | Protocadherins mediate dendritic self-avoidance in the mammalian nervous system. <i>Nature</i> , 2012 , 488, 517-21 | 50.4 | 301 |
| 121 | Generation of p50 subunit of NF-kappa B by processing of p105 through an ATP-dependent pathway. <i>Nature</i> , 1991 , 354, 395-8 | 50.4 | 297 |
| 120 | The structure of the human zeta-globin gene and a closely linked, nearly identical pseudogene. <i>Cell</i> , 1982 , 31, 553-63 | 56.2 | 297 |
| 119 | The mechanism of transcriptional synergy of an in vitro assembled interferon-beta enhanceosome. <i>Molecular Cell</i> , 1997 , 1, 119-29 | 17.6 | 296 |
| 118 | IKKepsilon is part of a novel PMA-inducible IkappaB kinase complex. <i>Molecular Cell</i> , 2000 , 5, 513-22 | 17.6 | 285 |
| 117 | Multiple functions of the IKK-related kinase IKKepsilon in interferon-mediated antiviral immunity. <i>Science</i> , 2007 , 315, 1274-8 | 33.3 | 281 |
| 116 | Reversal of intrinsic DNA bends in the IFN beta gene enhancer by transcription factors and the architectural protein HMG I(Y). <i>Cell</i> , 1995 , 83, 1101-11 | 56.2 | 269 |
| 115 | Mutant induced pluripotent stem cell lines recapitulate aspects of TDP-43 proteinopathies and reveal cell-specific vulnerability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5803-8 | 11.5 | 254 |
| 114 | Caspase-mediated processing of the Drosophila NF-kappaB factor Relish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 5991-6 | 11.5 | 251 |
| 113 | Correct developmental expression of a cloned alcohol dehydrogenase gene transduced into the Drosophila germ line. <i>Cell</i> , 1983 , 34, 59-73 | 56.2 | 251 |
| 112 | The structure of a human alpha-globin pseudogene and its relationship to alpha-globin gene duplication. <i>Cell</i> , 1980 , 21, 537-44 | 56.2 | 246 |
| 111 | A Drosophila IkappaB kinase complex required for Relish cleavage and antibacterial immunity. <i>Genes and Development</i> , 2000 , 14, 2461-71 | 12.6 | 240 |
| 110 | Early and late periodic patterns of even skipped expression are controlled by distinct regulatory elements that respond to different spatial cues. <i>Cell</i> , 1989 , 57, 413-22 | 56.2 | 240 |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 109 | Sex-specific splicing and polyadenylation of dsx pre-mRNA requires a sequence that binds specifically to tra-2 protein in vitro. <i>Cell</i> , 1991 , 65, 579-86 | 56.2 | 239 |
| 108 | Astrocyte pathology and the absence of non-cell autonomy in an induced pluripotent stem cell model of TDP-43 proteinopathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4697-702 | 11.5 | 238 |
| 107 | Characterisation of deletions which affect the expression of fetal globin genes in man. <i>Nature</i> , 1979 , 279, 598-603 | 50.4 | 236 |
| 106 | Virus infection leads to localized hyperacetylation of histones H3 and H4 at the IFN-beta promoter. <i>Molecular Cell</i> , 1999 , 3, 125-9 | 17.6 | 235 |
| 105 | Promoter choice determines splice site selection in protocadherin alpha and gamma pre-mRNA splicing. <i>Molecular Cell</i> , 2002 , 10, 21-33 | 17.6 | 231 |
| 104 | Multilevel regulation of gene expression by microRNAs. <i>Science</i> , 2008 , 319, 1789-90 | 33.3 | 229 |
| 103 | A role for the Drosophila neurogenic genes in mesoderm differentiation. <i>Cell</i> , 1991 , 67, 311-23 | 56.2 | 224 |
| 102 | Modification of the melting properties of duplex DNA by attachment of a GC-rich DNA sequence as determined by denaturing gradient gel electrophoresis. <i>Nucleic Acids Research</i> , 1985 , 13, 3111-29 | 20.1 | 223 |
| 101 | Rapid reprogramming of globin gene expression in transient heterokaryons. <i>Cell</i> , 1986 , 46, 591-602 | 56.2 | 214 |
| 100 | Recognition sequences of repressor and polymerase in the operators of bacteriophage lambda. <i>Cell</i> , 1975 , 5, 109-13 | 56.2 | 210 |
| 99 | An HMG-like protein that can switch a transcriptional activator to a repressor. <i>Nature</i> , 1994 , 371, 175-9 | 50.4 | 208 |
| 98 | Selection and characterization of pre-mRNA splicing enhancers: identification of novel SR protein-specific enhancer sequences. <i>Molecular and Cellular Biology</i> , 1999 , 19, 1705-19 | 4.8 | 197 |
| 97 | Detection of factors that interact with the human beta-interferon regulatory region in vivo by DNAase I footprinting. <i>Cell</i> , 1986 , 45, 611-8 | 56.2 | 197 |
| 96 | The regulated expression of beta-globin genes introduced into mouse erythroleukemia cells. <i>Cell</i> , 1983 , 32, 483-93 | 56.2 | 194 |
| 95 | Full length and discrete partial reverse transcripts of globin and chorion mRNAs. <i>Cell</i> , 1975 , 4, 367-78 | 56.2 | 193 |
| 94 | Comparative DNA sequence analysis of mouse and human protocadherin gene clusters. <i>Genome Research</i> , 2001 , 11, 389-404 | 9.7 | 191 |
| 93 | The structure of psi DNA. <i>Journal of Molecular Biology</i> , 1974 , 84, 37-64 | 6.5 | 191 |
| 92 | Immune activation of NF-kappaB and JNK requires Drosophila TAK1. <i>Journal of Biological Chemistry</i> , 2003 , 278, 48928-34 | 5.4 | 190 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 91 | Astrocytes in neurodegenerative disease. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015 , 7, | 10.2 | 186 |
| 90 | CTCF/cohesin-mediated DNA looping is required for protocadherin β promoter choice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 21081-6 | 11.5 | 176 |
| 89 | Accelerated high-yield generation of limb-innervating motor neurons from human stem cells. <i>Journal of Neuroscience</i> , 2013 , 33, 574-86 | 6.6 | 174 |
| 88 | The role of specific protein-RNA and protein-protein interactions in positive and negative control of pre-mRNA splicing by Transformer 2. <i>Cell</i> , 1994 , 76, 735-46 | 56.2 | 172 |
| 87 | Arginine/serine-rich domains of SR proteins can function as activators of pre-mRNA splicing. <i>Molecular Cell</i> , 1998 , 1, 765-71 | 17.6 | 167 |
| 86 | Multiple distinct splicing enhancers in the protein-coding sequences of a constitutively spliced pre-mRNA. <i>Molecular and Cellular Biology</i> , 1999 , 19, 261-73 | 4.8 | 164 |
| 85 | The structure and transcription of four linked rabbit beta-like globin genes. <i>Cell</i> , 1979 , 18, 1285-97 | 56.2 | 159 |
| 84 | Activation of innate and humoral immunity in the peripheral nervous system of ALS transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 20960-5 | 11.5 | 147 |
| 83 | Stimulus-specific assembly of enhancer complexes on the tumor necrosis factor alpha gene promoter. <i>Molecular and Cellular Biology</i> , 2000 , 20, 2239-47 | 4.8 | 142 |
| 82 | Single-cell topological RNA-seq analysis reveals insights into cellular differentiation and development. <i>Nature Biotechnology</i> , 2017 , 35, 551-560 | 44.5 | 138 |
| 81 | Role of transcriptional interference in the <i>Drosophila melanogaster</i> Adh promoter switch. <i>Nature</i> , 1989 , 337, 279-82 | 50.4 | 137 |
| 80 | Crystal structure of ATF-2/c-Jun and IRF-3 bound to the interferon-beta enhancer. <i>EMBO Journal</i> , 2004 , 23, 4384-93 | 13 | 133 |
| 79 | The organization of repetitive sequences in a cluster of rabbit beta-like globin genes. <i>Cell</i> , 1980 , 19, 379-91 | 56.2 | 133 |
| 78 | Clustered protocadherins. <i>Development (Cambridge)</i> , 2013 , 140, 3297-302 | 6.6 | 132 |
| 77 | Single-cell identity generated by combinatorial homophilic interactions between β and β' protocadherins. <i>Cell</i> , 2014 , 158, 1045-1059 | 56.2 | 131 |
| 76 | The linkage arrangement of four rabbit beta-like globin genes. <i>Cell</i> , 1979 , 18, 1273-83 | 56.2 | 131 |
| 75 | Crystal structure and mechanism of activation of TANK-binding kinase 1. <i>Cell Reports</i> , 2013 , 3, 734-46 | 10.6 | 129 |
| 74 | Common themes in the function of transcription and splicing enhancers. <i>Current Opinion in Cell Biology</i> , 1997 , 9, 350-7 | 9 | 128 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 73 | Sequence of a repressor-binding site in the DNA of bacteriophage lamda. <i>Nature</i> , 1974 , 250, 394-7 | 50.4 | 127 |
| 72 | Editing of glutamate receptor subunit B pre-mRNA in vitro by site-specific deamination of adenosine. <i>Nature</i> , 1995 , 374, 77-81 | 50.4 | 121 |
| 71 | Interferon regulatory factor 3 is regulated by a dual phosphorylation-dependent switch. <i>Journal of Biological Chemistry</i> , 2007 , 282, 22816-22 | 5.4 | 119 |
| 70 | Purification and visualization of native spliceosomes. <i>Cell</i> , 1988 , 53, 949-61 | 56.2 | 119 |
| 69 | The nucleotide sequence of a rabbit beta-globin pseudogene. <i>Cell</i> , 1980 , 21, 545-53 | 56.2 | 117 |
| 68 | Assembly of a functional beta interferon enhanceosome is dependent on ATF-2-c-jun heterodimer orientation. <i>Molecular and Cellular Biology</i> , 2000 , 20, 4814-25 | 4.8 | 114 |
| 67 | Distinct roles for motor neuron autophagy early and late in the SOD1 mouse model of ALS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8294-E8303 | 11.5 | 111 |
| 66 | Role of CCCTC binding factor (CTCF) and cohesin in the generation of single-cell diversity of protocadherin- α gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9125-30 | 11.5 | 109 |
| 65 | The role of U2AF35 and U2AF65 in enhancer-dependent splicing. <i>Rna</i> , 2001 , 7, 806-18 | 5.8 | 104 |
| 64 | Prevalent presence of periodic actin-spectrin-based membrane skeleton in a broad range of neuronal cell types and animal species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 6029-34 | 11.5 | 104 |
| 63 | The role of ubiquitination in <i>Drosophila</i> innate immunity. <i>Journal of Biological Chemistry</i> , 2005 , 280, 34048-55 | 11.5 | 100 |
| 62 | Serine/arginine-rich protein-dependent suppression of exon skipping by exonic splicing enhancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5002-7 | 11.5 | 100 |
| 61 | Intricate interplay between astrocytes and motor neurons in ALS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E756-65 | 11.5 | 96 |
| 60 | Molecular logic of neuronal self-recognition through protocadherin domain interactions. <i>Cell</i> , 2015 , 163, 629-42 | 56.2 | 94 |
| 59 | Identification of long-range regulatory elements in the protocadherin-alpha gene cluster. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 19719-24 | 11.5 | 94 |
| 58 | IB kinase epsilon (IKK(epsilon)) regulates the balance between type I and type II interferon responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 21170-5 | 11.5 | 90 |
| 57 | <i>Drosophila</i> Adh: a promoter element expands the tissue specificity of an enhancer. <i>Cell</i> , 1988 , 53, 451-61 | 56.2 | 89 |
| 56 | A small domain of CBP/p300 binds diverse proteins: solution structure and functional studies. <i>Molecular Cell</i> , 2001 , 8, 581-90 | 17.6 | 87 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 55 | Fractionation of low molecular weight DNA or RNA in polyacrylamide gels containing 98% formamide or 7 M urea. <i>Methods in Enzymology</i> , 1980 , 65, 299-305 | 1.7 | 87 |
| 54 | Stochastic expression of the interferon- β gene. <i>PLoS Biology</i> , 2012 , 10, e1001249 | 9.7 | 85 |
| 53 | Connecting mitochondria and innate immunity. <i>Cell</i> , 2005 , 122, 645-7 | 56.2 | 81 |
| 52 | Structure and transcription of the <i>Drosophila mulleri</i> alcohol dehydrogenase genes. <i>Nucleic Acids Research</i> , 1985 , 13, 6899-917 | 20.1 | 80 |
| 51 | Functional significance of isoform diversification in the protocadherin gamma gene cluster. <i>Neuron</i> , 2012 , 75, 402-9 | 13.9 | 79 |
| 50 | Pcdh β 2 is required for axonal tiling and assembly of serotonergic circuitries in mice. <i>Science</i> , 2017 , 356, 406-411 | 33.3 | 73 |
| 49 | Antisense lncRNA Transcription Mediates DNA Demethylation to Drive Stochastic Protocadherin β Promoter Choice. <i>Cell</i> , 2019 , 177, 639-653.e15 | 56.2 | 73 |
| 48 | Regulatory elements required for the activation and repression of the protocadherin-alpha gene cluster. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17195-200 | 11.5 | 73 |
| 47 | Spliced leader RNAs from lower eukaryotes are trans-spliced in mammalian cells. <i>Nature</i> , 1992 , 360, 692-5 | 50.4 | 73 |
| 46 | Multicluster Pcdh diversity is required for mouse olfactory neural circuit assembly. <i>Science</i> , 2017 , 356, 411-414 | 33.3 | 71 |
| 45 | The function of multisite splicing enhancers. <i>Molecular Cell</i> , 1998 , 1, 449-55 | 17.6 | 71 |
| 44 | NF-kappa B p105 processing via the ubiquitin-proteasome pathway. <i>Journal of Biological Chemistry</i> , 1998 , 273, 1409-19 | 5.4 | 70 |
| 43 | Promoters are in the operators in phage lambda. <i>Nature</i> , 1974 , 249, 221-3 | 50.4 | 69 |
| 42 | X-linked recessive TLR7 deficiency in ~1% of men under 60 years old with life-threatening COVID-19. <i>Science Immunology</i> , 2021 , 6, | 28 | 67 |
| 41 | hnRNP U protein is required for normal pre-mRNA splicing and postnatal heart development and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E3020-9 | 11.5 | 63 |
| 40 | Endocytic pathway is required for <i>Drosophila</i> Toll innate immune signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 8322-7 | 11.5 | 62 |
| 39 | Structural Basis of Diverse Homophilic Recognition by Clustered β and β Protocadherins. <i>Neuron</i> , 2016 , 90, 709-23 | 13.9 | 58 |
| 38 | Structure of the lambda operators. <i>Nature</i> , 1973 , 246, 133-6 | 50.4 | 56 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 37 | Phosphorylation of protocadherin proteins by the receptor tyrosine kinase Ret. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13894-9 | 11.5 | 52 |
| 36 | Visualization of clustered protocadherin neuronal self-recognition complexes. <i>Nature</i> , 2019 , 569, 280-283 | 30.4 | 46 |
| 35 | SARS-CoV-2-related MIS-C: A key to the viral and genetic causes of Kawasaki disease?. <i>Journal of Experimental Medicine</i> , 2021 , 218, | 16.6 | 45 |
| 34 | Cardiac glycosides are potent inhibitors of interferon- β gene expression. <i>Nature Chemical Biology</i> , 2011 , 7, 25-33 | 11.7 | 40 |
| 33 | Molecular and functional interaction between protocadherin-15 and GABAA receptors. <i>Journal of Neuroscience</i> , 2012 , 32, 11780-97 | 6.6 | 39 |
| 32 | Writing, Reading, and Translating the Clustered Protocadherin Cell Surface Recognition Code for Neural Circuit Assembly. <i>Annual Review of Cell and Developmental Biology</i> , 2018 , 34, 471-493 | 12.6 | 39 |
| 31 | Delay in synthesis of the 3'Ssplice site promotes trans-splicing of the preceding 5'Ssplice site. <i>Molecular Cell</i> , 2005 , 18, 245-51 | 17.6 | 38 |
| 30 | The Loss of TBK1 Kinase Activity in Motor Neurons or in All Cell Types Differentially Impacts ALS Disease Progression in SOD1 Mice. <i>Neuron</i> , 2020 , 106, 789-805.e5 | 13.9 | 37 |
| 29 | SR proteins are locators of the RNA splicing machinery. <i>Current Biology</i> , 1999 , 9, R6-7 | 6.3 | 37 |
| 28 | Protocadherin structural diversity and functional implications. <i>ELife</i> , 2016 , 5, | 8.9 | 37 |
| 27 | Protocadherin -dimer architecture and recognition unit diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9829-E9837 | 11.5 | 33 |
| 26 | Allele-specific knockdown of ALS-associated mutant TDP-43 in neural stem cells derived from induced pluripotent stem cells. <i>PLoS ONE</i> , 2014 , 9, e91269 | 3.7 | 33 |
| 25 | Negative regulation of interferon- β gene expression during acute and persistent virus infections. <i>PLoS ONE</i> , 2011 , 6, e20681 | 3.7 | 29 |
| 24 | Proteolytic processing of protocadherin proteins requires endocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17774-9 | 11.5 | 28 |
| 23 | The generation of a protocadherin cell-surface recognition code for neural circuit assembly. <i>Current Opinion in Neurobiology</i> , 2019 , 59, 213-220 | 7.6 | 27 |
| 22 | Selection of sequences recognized by a DNA binding protein using a preparative southwestern blot. <i>Nucleic Acids Research</i> , 1991 , 19, 4675-80 | 20.1 | 26 |
| 21 | Histone and DNA Modifications as Regulators of Neuronal Development and Function. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016 , 8, | 10.2 | 26 |
| 20 | Structural origins of clustered protocadherin-mediated neuronal barcoding. <i>Seminars in Cell and Developmental Biology</i> , 2017 , 69, 140-150 | 7.5 | 23 |

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1 ALS and FTD-associated missense mutations in TBK1 differentially disrupt mitophagy

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