# Michael P Terns

List of Publications by Year
in descending order



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|---|---|---|---|
| 77 papers | 11,750 citations | 57758 44 h-index | 69250 77 g-index |
| 80 all docs | 80 docs citations | 80 times ranked | 8836 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Unique properties of spacer acquisition by the type III-A CRISPR-Cas system. Nucleic Acids Research, 2022, 50, 1562-1582. | 14.5 | 8 |
| 2 | Structural and biochemical characterization of in vivo assembled Lactococcus lactis CRISPR-Csm complex. Communications Biology, 2022, 5, 279. | 4.4 | 9 |
| 3 | Type III-A CRISPR systems as a versatile gene knockdown technology. Rna, 2022, 28, 1074-1088. | 3.5 | 7 |
| 4 | Allosteric control of type I-A CRISPR-Cas3 complexes and establishment as effective nucleic acid detection and human genome editing tools. Molecular Cell, 2022, 82, 2754-2768.e5. | 9.7 | 23 |
| 5 | New Type III CRISPR variant and programmable RNA targeting tool: Oh, thank heaven for Cas7-11. Molecular Cell, 2021, 81, 4354-4356. | 9.7 | 11 |
| 6 | A journey down to hell: new thermostable protein-tags for biotechnology at high temperatures. Extremophiles, 2020, 24, 81-91. | 2.3 | 8 |
| 7 | Evolutionary classification of CRISPRâ€“Cas systems: a burst of class 2 and derived variants. Nature Reviews Microbiology, 2020, 18, 67-83. | 28.6 | 1,427 |
| 8 | Primed CRISPR DNA uptake in Pyrococcus furiosus. Nucleic Acids Research, 2020, 48, 6120-6135. | 14.5 | 20 |
| 9 | Regulation of the RNA and DNA nuclease activities required for Pyrococcus furiosus Type III-B CRISPRâ€“Cas immunity. Nucleic Acids Research, 2020, 48, 4418-4434. | 14.5 | 34 |
| 10 | The ribonuclease activity of Csm6 is required for anti-plasmid immunity by Type III-A CRISPR-Cas systems. RNA Biology, 2019, 16, 449-460. | 3.1 | 68 |
| 11 | CRISPR DNA elements controlling site-specific spacer integration and proper repeat length by a Type II CRISPRâ€“Cas system. Nucleic Acids Research, 2019, 47, 8632-8648. | 14.5 | 15 |
| 12 | CRISPRÂrepeat sequences and relative spacing specify DNA integration by Pyrococcus furiosus Cas1 and Cas2. Nucleic Acids Research, 2019, 47, 7518-7531. | 14.5 | 18 |
| 13 | CRISPR RNA-guided DNA cleavage by reconstituted Type I-A immune effector complexes. Extremophiles, 2019, 23, 19-33. | 2.3 | 14 |
| 14 | Complete Genome Sequence of Industrial Dairy Strain Streptococcus thermophilus DGCC 7710. Genome Announcements, 2018, 6, . | 0.8 | 22 |
| 15 | CRISPR-Based Technologies: Impact of RNA-Targeting Systems. Molecular Cell, 2018, 72, 404-412. | 9.7 | 131 |
| 16 | Cas4 Nucleases Define the PAM, Length, and Orientation of DNA Fragments Integrated at CRISPR Loci. Molecular Cell, 2018, 70, 814-824.e6. | 9.7 | 85 |
| 17 | Visualization of Human Telomerase Localization by Fluorescence Microscopy Techniques. Methods in Molecular Biology, 2017, 1587, 113-125. | 0.9 | 2 |
| 18 | Role of free DNA ends and protospacer adjacent motifs for CRISPR DNA uptake in Pyrococcus furiosus. Nucleic Acids Research, 2017, 45, 11281-11294. | 14.5 | 34 |

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|---|---|---|---|
| 19 | Target DNA recognition and cleavage by a reconstituted Type I-G CRISPR-Cas immune effector complex. Extremophiles, 2017, 21, 95-107. | 2.3 | 21 |
| 20 | Programmable type III-A CRISPR-Cas DNA targeting modules. PLoS ONE, 2017, 12, e0176221. | 2.5 | 31 |
| 21 | Phylogenomics of Cas4 family nucleases. BMC Evolutionary Biology, 2017, 17, 232. | 3.2 | 61 |
| 22 | CRISPR Outsourcing: Commissioning IHF for Site-Specific Integration of Foreign DNA at the CRISPR Array. Molecular Cell, 2016, 62, 803-804. | 9.7 | 5 |
| 23 | The CRISPR-associated Csx1 protein of <i>Pyrococcus furiosus</i> is an adenosine-specific endoribonuclease. Rna, 2016, 22, 216-224. | 3.5 | 79 |
| 24 | Bipartite recognition of target RNAs activates DNA cleavage by the Type III-B CRISPRâ€"Cas system. Genes and Development, 2016, 30, 447-459. | 5.9 | 212 |
| 25 | Argonaute of the archaeon Pyrococcus furiosus is a DNA-guided nuclease that targets cognate DNA. Nucleic Acids Research, 2015, 43, 5120-5129. | 14.5 | 202 |
| 26 | Cas9 function and host genome sampling in Type II-A CRISPRâ€"Cas adaptation. Genes and Development, 2015, 29, 356-361. | 5.9 | 188 |
| 27 | Sequences spanning the leader-repeat junction mediate CRISPR adaptation to phage in <i>Streptococcus thermophilus</i>. Nucleic Acids Research, 2015, 43, 1749-1758. | 14.5 | 97 |
| 28 | Three CRISPR-Cas immune effector complexes coexist in <i>Pyrococcus furiosus</i>. Rna, 2015, 21, 1147-1158. | 3.5 | 48 |
| 29 | An updated evolutionary classification of CRISPRâ€"Cas systems. Nature Reviews Microbiology, 2015, 13, 722-736. | 28.6 | 2,081 |
| 30 | DNA targeting by the type I-G and type I-A CRISPRâ€"Cas systems of<i>Pyrococcus furiosus</i>. Nucleic Acids Research, 2015, 43, gkv1140. | 14.5 | 38 |
| 31 | Essential Structural and Functional Roles of the Cmr4 Subunit in RNA Cleavage by the Cmr CRISPR-Cas Complex. Cell Reports, 2014, 9, 1610-1617. | 6.4 | 57 |
| 32 | CRISPR-based technologies: prokaryotic defense weapons repurposed. Trends in Genetics, 2014, 30, 111-118. | 6.7 | 92 |
| 33 | The three major types of <scp>CRISPR</scp>â€<scp>Cas</scp> systems function independently in <scp>CRISPR RNA</scp> biogenesis in <scp><i>S</i></scp><i>treptococcus thermophilus</i>. Molecular Microbiology, 2014, 93, 98-112. | 2.5 | 81 |
| 34 | Target RNA capture and cleavage by the Cmr type III-B CRISPRâ€"Cas effector complex. Genes and Development, 2014, 28, 2432-2443. | 5.9 | 104 |
| 35 | Structure of an RNA Silencing Complex of the CRISPR-Cas Immune System. Molecular Cell, 2013, 52, 146-152. | 9.7 | 117 |
| 36 | Structure of the Cmr2-Cmr3 Subcomplex of the Cmr RNA Silencing Complex. Structure, 2013, 21, 376-384. | 3.3 | 42 |

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| 37 | Programmable plasmid interference by the CRISPR-Cas system in<i><i>Thermococcus kodakarensis</i></i>. RNA Biology, 2013, 10, 828-840. | 3.1 | 34 |
| 38 | The RNA- and DNA-targeting CRISPRâ€“Cas immune systems of <i>Pyrococcus furiosus</i>. Biochemical Society Transactions, 2013, 41, 1416-1421. | 3.4 | 31 |
| 39 | Essential Features and Rational Design of CRISPR RNAs that Function with the Cas RAMP Module Complex to Cleave RNAs. Molecular Cell, 2012, 45, 292-302. | 9.7 | 275 |
| 40 | Structure of the Cmr2 Subunit of the CRISPR-Cas RNA Silencing Complex. Structure, 2012, 20, 545-553. | 3.3 | 69 |
| 41 | The CRISPRâ€Cas system: small RNAâ€guided invader silencing in prokaryotes. FASEB Journal, 2012, 26, 353.3. | 0.5 | 0 |
| 42 | CRISPR-based adaptive immune systems. Current Opinion in Microbiology, 2011, 14, 321-327. | 5.1 | 358 |
| 43 | Processive and Distributive Extension of Human Telomeres by Telomerase under Homeostatic and Nonequilibrium Conditions. Molecular Cell, 2011, 42, 297-307. | 9.7 | 77 |
| 44 | Interaction of the Cas6 Riboendonuclease with CRISPR RNAs: Recognition and Cleavage. Structure, 2011, 19, 257-264. | 3.3 | 154 |
| 45 | A Cajal body-independent pathway for telomerase trafficking in mice. Experimental Cell Research, 2010, 316, 2797-2809. | 2.6 | 25 |
| 46 | Telomerase trafficking and assembly in <i>Xenopus</i> oocytes. Journal of Cell Science, 2010, 123, 2464-2472. | 2.0 | 6 |
| 47 | TIN2-Tethered TPP1 Recruits Human Telomerase to Telomeres <i>In Vivo</i>. Molecular and Cellular Biology, 2010, 30, 2971-2982. | 2.3 | 206 |
| 48 | Binding and cleavage of CRISPR RNA by Cas6. Rna, 2010, 16, 2181-2188. | 3.5 | 137 |
| 49 | Structural Basis for Substrate Placement by an Archaeal Box C/D Ribonucleoprotein Particle. Molecular Cell, 2010, 39, 939-949. | 9.7 | 59 |
| 50 | RNA-Guided RNA Cleavage by a CRISPR RNA-Cas Protein Complex. Cell, 2009, 139, 945-956. | 28.9 | 919 |
| 51 | A Human Telomerase Holoenzyme Protein Required for Cajal Body Localization and Telomere Synthesis. Science, 2009, 323, 644-648. | 12.6 | 451 |
| 52 | Prokaryotic silencing (psi)RNAs in <i>Pyrococcus furiosus</i>. Rna, 2008, 14, 2572-2579. | 3.5 | 212 |
| 53 | Telomerase Reverse Transcriptase Is Required for the Localization of Telomerase RNA to Cajal Bodies and Telomeres in Human Cancer Cells. Molecular Biology of the Cell, 2008, 19, 3793-3800. | 2.1 | 65 |
| 54 | Cas6 is an endoribonuclease that generates guide RNAs for invader defense in prokaryotes. Genes and Development, 2008, 22, 3489-3496. | 5.9 | 495 |

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| 55 | Dynamic interactions within sub-complexes of the H/ACA pseudouridylation guide RNP. Nucleic Acids Research, 2007, 35, 6196-6206. | 14.5 | 23 |
| 56 | Alternative Conformations of the Archaeal Nop56/58-Fibrillarin Complex Imply Flexibility in Box C/D RNPs. Journal of Molecular Biology, 2007, 371, 1141-1150. | 4.2 | 36 |
| 57 | Human Telomerase RNA Accumulation in Cajal Bodies Facilitates Telomerase Recruitment to Telomeres and Telomere Elongation. Molecular Cell, 2007, 27, 882-889. | 9.7 | 161 |
| 58 | Non-coding RNAs: lessons from the small nuclear and small nucleolar RNAs. Nature Reviews Molecular Cell Biology, 2007, 8, 209-220. | 37.0 | 683 |
| 59 | Crystal Structure of a Cbf5-Nop10-Gar1 Complex and Implications in RNA-Guided Pseudouridylation and Dyskeratosis Congenita. Molecular Cell, 2006, 21, 249-260. | 9.7 | 152 |
| 60 | Cell Cycle-regulated Trafficking of Human Telomerase to Telomeres. Molecular Biology of the Cell, 2006, 17, 955-965. | 2.1 | 255 |
| 61 | RNA-Guided RNA modification: functional organization of the archaeal H/ACA RNP. Genes and Development, 2005, 19, 1238-1248. | 5.9 | 116 |
| 62 | Circular box C/D RNAs in Pyrococcus furiosus. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14097-14101. | 7.1 | 46 |
| 63 | Telomerase RNA Accumulates in Cajal Bodies in Human Cancer Cells. Molecular Biology of the Cell, 2004, 15, 81-90. | 2.1 | 180 |
| 64 | Components of U3 snoRNA-containing Complexes Shuttle between Nuclei and the Cytoplasm and Differentially Localize in Nucleoli: Implications for Assembly and Function. Molecular Biology of the Cell, 2004, 15, 281-293. | 2.1 | 31 |
| 65 | Structure determination of fibrillarin from the hyperthermophilic archaeon Pyrococcus furiosus. Biochemical and Biophysical Research Communications, 2004, 315, 726-732. | 2.1 | 19 |
| 66 | The Nucleolar Localization Domain of the Catalytic Subunit of Human Telomerase. Journal of Biological Chemistry, 2002, 277, 24764-24770. | 3.4 | 110 |
| 67 | Determinants of the Interaction of the Spinal Muscular Atrophy Disease Protein SMN with the Dimethylarginine-modified Box H/ACA Small Nucleolar Ribonucleoprotein GAR1. Journal of Biological Chemistry, 2002, 277, 48087-48093. | 3.4 | 53 |
| 68 | Archaeal Guide RNAs Function in rRNA Modification in the Eukaryotic Nucleus. Current Biology, 2002, 12, 199-203. | 3.9 | 19 |
| 69 | Site-specific cross-linking analyses reveal an asymmetric protein distribution for a box C/D snoRNP. EMBO Journal, 2002, 21, 3816-3828. | 7.8 | 96 |
| 70 | An H/ACA guide RNA directs U2 pseudouridylation at two different sites in the branchpoint recognition region in Xenopus oocytes. Rna, 2002, 8, 1515-25. | 3.5 | 45 |
| 71 | Small nucleolar RNAs: versatile trans-acting molecules of ancient evolutionary origin. Gene Expression, 2002, 10, 17-39. | 1.2 | 135 |
| 72 | Macromolecular complexes: SMN â€" the master assembler. Current Biology, 2001, 11, R862-R864. | 3.9 | 97 |

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| 73 | Internal Modification of U2 Small Nuclear (Snrna) Occurs in Nucleoli of Xenopus Oocytes. Journal of Cell Biology, 2001, 152, 1279-1288. | 5.2 | 57 |
| 74 | Direct Interaction of the Spinal Muscular Atrophy Disease Protein SMN with the Small Nucleolar RNA-associated Protein Fibrillarin. Journal of Biological Chemistry, 2001, 276, 38645-38651. | 3.4 | 147 |
| 75 | Role of the Box C/D Motif in Localization of Small Nucleolar RNAs to Coiled Bodies and Nucleoli. Molecular Biology of the Cell, 1999, 10, 2131-2147. | 2.1 | 129 |
| 76 | Nuclear Retention Elements of U3 Small Nucleolar RNA. Molecular and Cellular Biology, 1999, 19, 8412-8421. | 2.3 | 38 |
| 77 | Chapter 25 Nuclear Transport of RNAs in Microinjected Xenopus Oocytes. Methods in Cell Biology, 1997, 53, 559-589. | 1.1 | 23 |