

Michael M Seidman

List of Publications by Year in descending order

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59
papers

2,784
citations

136950

32
h-index

182427

51
g-index

60
all docs

60
docs citations

60
times ranked

3501
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A Histone-Fold Complex and FANCM Form a Conserved DNA-Remodeling Complex to Maintain Genome Stability. <i>Molecular Cell</i> , 2010, 37, 865-878. | 9.7 | 204 |
| 2 | The DNA Translocase FANCM/MHF Promotes Replication Traverse of DNA Interstrand Crosslinks. <i>Molecular Cell</i> , 2013, 52, 434-446. | 9.7 | 165 |
| 3 | Targeted gene knockout mediated by triple helix forming oligonucleotides. <i>Nature Genetics</i> , 1998, 20, 212-214. | 21.4 | 163 |
| 4 | Enhancing the Cytotoxic Effects of PARP Inhibitors with DNA Demethylating Agents – A Potential Therapy for Cancer. <i>Cancer Cell</i> , 2016, 30, 637-650. | 16.8 | 151 |
| 5 | DNA interstrand crosslink repair in mammalian cells: step by step. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2010, 45, 23-49. | 5.2 | 150 |
| 6 | The potential for gene repair via triple helix formation. <i>Journal of Clinical Investigation</i> , 2003, 112, 487-494. | 8.2 | 135 |
| 7 | CHD4 Has Oncogenic Functions in Initiating and Maintaining Epigenetic Suppression of Multiple Tumor Suppressor Genes. <i>Cancer Cell</i> , 2017, 31, 653-668.e7. | 16.8 | 134 |
| 8 | Unwinding of a DNA Triple Helix by the Werner and Bloom Syndrome Helicases. <i>Journal of Biological Chemistry</i> , 2001, 276, 3024-3030. | 3.4 | 108 |
| 9 | Rif1 provides a new DNA-binding interface for the Bloom syndrome complex to maintain normal replication. <i>EMBO Journal</i> , 2010, 29, 3140-3155. | 7.8 | 92 |
| 10 | UHRF1 Contributes to DNA Damage Repair as a Lesion Recognition Factor and Nuclease Scaffold. <i>Cell Reports</i> , 2015, 10, 1957-1966. | 6.4 | 80 |
| 11 | Loss of ARID1A in Tumor Cells Renders Selective Vulnerability to Combined Ionizing Radiation and PARP Inhibitor Therapy. <i>Clinical Cancer Research</i> , 2019, 25, 5584-5594. | 7.0 | 80 |
| 12 | Repair of Laser-localized DNA Interstrand Cross-links in G1 Phase Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 27908-27917. | 3.4 | 78 |
| 13 | A Ubiquitin-Binding Protein, FAAP20, Links RNF8-Mediated Ubiquitination to the Fanconi Anemia DNA Repair Network. <i>Molecular Cell</i> , 2012, 47, 61-75. | 9.7 | 61 |
| 14 | ATR-Dependent Phosphorylation of FANCM at Serine 1045 Is Essential for FANCM Functions. <i>Cancer Research</i> , 2013, 73, 4300-4310. | 0.9 | 59 |
| 15 | Cell Cycle Modulation of Gene Targeting by a Triple Helix-forming Oligonucleotide. <i>Journal of Biological Chemistry</i> , 2003, 278, 11072-11077. | 3.4 | 58 |
| 16 | Fanconi Anemia: A DNA repair disorder characterized by accelerated decline of the hematopoietic stem cell compartment and other features of aging. <i>Ageing Research Reviews</i> , 2017, 33, 67-75. | 10.9 | 58 |
| 17 | Fanconi Anemia Group J Helicase and MRE11 Nuclease Interact To Facilitate the DNA Damage Response. <i>Molecular and Cellular Biology</i> , 2013, 33, 2212-2227. | 2.3 | 51 |
| 18 | Minimum Number of 2'-O-(2-Aminoethyl) Residues Required for Gene Knockout Activity by Triple Helix Forming Oligonucleotides. <i>Biochemistry</i> , 2002, 41, 7716-7724. | 2.5 | 49 |

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|----|--|------|-----------|
| 19 | CSB interacts with SNM1A and promotes DNA interstrand crosslink processing. <i>Nucleic Acids Research</i> , 2015, 43, 247-258. | 14.5 | 48 |
| 20 | Psoralen Conjugates for Visualization of Genomic Interstrand Cross-Links Localized by Laser Photoactivation. <i>Bioconjugate Chemistry</i> , 2007, 18, 431-437. | 3.6 | 47 |
| 21 | Bloom syndrome complex promotes FANCM recruitment to stalled replication forks and facilitates both repair and traverse of DNA interstrand crosslinks. <i>Cell Discovery</i> , 2016, 2, 16047. | 6.7 | 47 |
| 22 | Targeted Gene Knockout by 2'-O-Aminoethyl Modified Triplex Forming Oligonucleotides. <i>Journal of Biological Chemistry</i> , 2001, 276, 28991-28998. | 3.4 | 44 |
| 23 | Remodeling of Interstrand Crosslink Proximal Replisomes Is Dependent on ATR, FANCM, and FANCD2. <i>Cell Reports</i> , 2019, 27, 1794-1808.e5. | 6.4 | 44 |
| 24 | Importance of Clustered 2'-O-(2-Aminoethyl) Residues for the Gene Targeting Activity of Triple Helix-Forming Oligonucleotides. <i>Biochemistry</i> , 2004, 43, 1343-1351. | 2.5 | 43 |
| 25 | Fan1 deficiency results in DNA interstrand cross-link repair defects, enhanced tissue karyomegaly, and organ dysfunction. <i>Genes and Development</i> , 2016, 30, 645-659. | 5.9 | 42 |
| 26 | FANCM interacts with PCNA to promote replication traverse of DNA interstrand crosslinks. <i>Nucleic Acids Research</i> , 2016, 44, 3219-3232. | 14.5 | 41 |
| 27 | Targeted Gene Knock In and Sequence Modulation Mediated by a Psoralen-linked Triplex-forming Oligonucleotide*. <i>Journal of Biological Chemistry</i> , 2008, 283, 11244-11252. | 3.4 | 39 |
| 28 | R-loops cause genomic instability in T helper lymphocytes from patients with Wiskott-Aldrich syndrome. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 219-234. | 2.9 | 39 |
| 29 | DNA repair and mutagenesis in Werner syndrome. <i>Environmental and Molecular Mutagenesis</i> , 2001, 38, 227-234. | 2.2 | 37 |
| 30 | Targeted Cross-linking of the Human β -Globin Gene in Living Cells Mediated by a Triple Helix Forming Oligonucleotide. <i>Biochemistry</i> , 2006, 45, 1970-1978. | 2.5 | 36 |
| 31 | Triplex targeted genomic crosslinks enter separable deletion and base substitution pathways. <i>Nucleic Acids Research</i> , 2005, 33, 5382-5393. | 14.5 | 35 |
| 32 | Catalytic Strand Separation by RECQ1 Is Required for RPA-Mediated Response to Replication Stress. <i>Current Biology</i> , 2015, 25, 2830-2838. | 3.9 | 33 |
| 33 | The Development of Bioactive Triple Helix-Forming Oligonucleotides. <i>Annals of the New York Academy of Sciences</i> , 2005, 1058, 119-127. | 3.8 | 29 |
| 34 | Werner syndrome protein 1367 variants and disposition towards coronary artery disease in Caucasian patients. <i>Mechanisms of Ageing and Development</i> , 2004, 125, 491-496. | 4.6 | 27 |
| 35 | EXD2 Protects Stressed Replication Forks and Is Required for Cell Viability in the Absence of BRCA1/2. <i>Molecular Cell</i> , 2019, 75, 605-619.e6. | 9.7 | 26 |
| 36 | DONSON and FANCM associate with different replisomes distinguished by replication timing and chromatin domain. <i>Nature Communications</i> , 2020, 11, 3951. | 12.8 | 26 |

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|----|---|------|-----------|
| 37 | NEIL1 Responds and Binds to Psoralen-induced DNA Interstrand Crosslinks. <i>Journal of Biological Chemistry</i> , 2013, 288, 12426-12436. | 3.4 | 23 |
| 38 | MERIT40 cooperates with BRCA2 to resolve DNA interstrand cross-links. <i>Genes and Development</i> , 2015, 29, 1955-1968. | 5.9 | 22 |
| 39 | Arsenite Binds to the RING Finger Domain of FANCL E3 Ubiquitin Ligase and Inhibits DNA Interstrand Crosslink Repair. <i>ACS Chemical Biology</i> , 2017, 12, 1858-1866. | 3.4 | 21 |
| 40 | Human Replication Protein A Melts a DNA Triple Helix Structure in a Potent and Specific Manner. <i>Biochemistry</i> , 2008, 47, 5068-5077. | 2.5 | 18 |
| 41 | A novel link to base excision repair?. <i>Trends in Biochemical Sciences</i> , 2010, 35, 247-252. | 7.5 | 18 |
| 42 | Replisome structure suggests mechanism for continuous fork progression and post-replication repair. <i>DNA Repair</i> , 2019, 81, 102658. | 2.8 | 18 |
| 43 | Single Nucleotide Positions Have Proximal and Distal Influence on UV Mutation Hotspots and Coldspots. <i>Journal of Molecular Biology</i> , 1996, 258, 251-260. | 4.2 | 17 |
| 44 | Mechanistic insights into how CMG helicase facilitates replication past DNA roadblocks. <i>DNA Repair</i> , 2017, 55, 76-82. | 2.8 | 15 |
| 45 | Gene Targeting by Triple Helix-Forming Oligonucleotides. <i>Annals of the New York Academy of Sciences</i> , 2003, 1002, 141-153. | 3.8 | 14 |
| 46 | Oligonucleotide Mediated Gene Targeting in Mammalian Cells. <i>Current Pharmaceutical Biotechnology</i> , 2004, 5, 421-430. | 1.6 | 12 |
| 47 | The RecQ helicase RECQL5 participates in psoralen-induced interstrand cross-link repair. <i>Carcinogenesis</i> , 2013, 34, 2218-2230. | 2.8 | 11 |
| 48 | RNF4 Regulates the BLM Helicase in Recovery From Replication Fork Collapse. <i>Frontiers in Genetics</i> , 2021, 12, 753535. | 2.3 | 10 |
| 49 | FANCI compensates for RAP80 deficiency and suppresses genomic instability induced by interstrand cross-links. <i>Nucleic Acids Research</i> , 2020, 48, 9161-9180. | 14.5 | 7 |
| 50 | RNF168 E3 ligase participates in ubiquitin signaling and recruitment of SLX4 during DNA crosslink repair. <i>Cell Reports</i> , 2021, 37, 109879. | 6.4 | 6 |
| 51 | Single Molecule Analysis of Laser Localized Interstrand Crosslinks. <i>Frontiers in Genetics</i> , 2016, 7, 84. | 2.3 | 5 |
| 52 | Replication of the Mammalian Genome by Replisomes Specific for Euchromatin and Heterochromatin. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 729265. | 3.7 | 4 |
| 53 | Imaging cellular responses to antigen tagged DNA damage. <i>DNA Repair</i> , 2018, 71, 183-189. | 2.8 | 3 |
| 54 | Defective postreplication repair of UV photoproducts in melanoma: a mutator phenotype. <i>Molecular Oncology</i> , 2020, 14, 5-7. | 4.6 | 1 |

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|----|--|-----|-----------|
| 55 | Single Molecule Analysis of Laser Localized Psoralen Adducts. Journal of Visualized Experiments, 2017, , . | 0.3 | 0 |
| 56 | Visualization of Replisome Encounters with an Antigen Tagged Blocking Lesion. Journal of Visualized Experiments, 2021, , . | 0.3 | 0 |
| 57 | Physical and Functional Interaction Between Fanconi Anemia Group J Helicase and MRE11 Nuclease. FASEB Journal, 2012, 26, 539.2. | 0.5 | 0 |
| 58 | Single Molecular Analysis of the Encounter of Replication Forks with DNA Interstrand Crosslinks. FASEB Journal, 2013, 27, 538.2. | 0.5 | 0 |
| 59 | Visualizing replication fork encounters with DNA interstrand crosslinks. Methods in Enzymology, 2021, 661, 53-75. | 1.0 | 0 |