

Eugene Berezikov

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

14,863
citations

38660

50
h-index

27345

106
g-index

120
all docs

120
docs citations

120
times ranked

18891
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | MicroRNA Expression in Zebrafish Embryonic Development. <i>Science</i> , 2005, 309, 310-311. | 6.0 | 1,448 |
| 2 | Phylogenetic Shadowing and Computational Identification of Human microRNA Genes. <i>Cell</i> , 2005, 120, 21-24. | 13.5 | 1,194 |
| 3 | Identification of Functional Elements and Regulatory Circuits by <i>Drosophila</i> modENCODE. <i>Science</i> , 2010, 330, 1787-1797. | 6.0 | 1,124 |
| 4 | A Role for Piwi and piRNAs in Germ Cell Maintenance and Transposon Silencing in Zebrafish. <i>Cell</i> , 2007, 129, 69-82. | 13.5 | 989 |
| 5 | Mammalian Mirtron Genes. <i>Molecular Cell</i> , 2007, 28, 328-336. | 4.5 | 675 |
| 6 | Evolution of microRNA diversity and regulation in animals. <i>Nature Reviews Genetics</i> , 2011, 12, 846-860. | 7.7 | 645 |
| 7 | The ctenophore genome and the evolutionary origins of neural systems. <i>Nature</i> , 2014, 510, 109-114. | 13.7 | 606 |
| 8 | Diversity of microRNAs in human and chimpanzee brain. <i>Nature Genetics</i> , 2006, 38, 1375-1377. | 9.4 | 457 |
| 9 | Approaches to microRNA discovery. <i>Nature Genetics</i> , 2006, 38, S2-S7. | 9.4 | 453 |
| 10 | Piwi and piRNAs Act Upstream of an Endogenous siRNA Pathway to Suppress Tc3 Transposon Mobility in the <i>Caenorhabditis elegans</i> Germline. <i>Molecular Cell</i> , 2008, 31, 79-90. | 4.5 | 392 |
| 11 | The TRIM-NHL Protein TRIM32 Activates MicroRNAs and Prevents Self-Renewal in Mouse Neural Progenitors. <i>Cell</i> , 2009, 136, 913-925. | 13.5 | 372 |
| 12 | Zili is required for germ cell differentiation and meiosis in zebrafish. <i>EMBO Journal</i> , 2008, 27, 2702-2711. | 3.5 | 273 |
| 13 | Differences in vertebrate microRNA expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14385-14389. | 3.3 | 251 |
| 14 | Genome-wide RNA Tomography in the Zebrafish Embryo. <i>Cell</i> , 2014, 159, 662-675. | 13.5 | 248 |
| 15 | Many novel mammalian microRNA candidates identified by extensive cloning and RAKE analysis. <i>Genome Research</i> , 2006, 16, 1289-1298. | 2.4 | 242 |
| 16 | Detection of microRNAs in frozen tissue sections by fluorescence in situ hybridization using locked nucleic acid probes and tyramide signal amplification. <i>Nature Protocols</i> , 2007, 2, 2520-2528. | 5.5 | 221 |
| 17 | Deep annotation of <i>Drosophila melanogaster</i> microRNAs yields insights into their processing, modification, and emergence. <i>Genome Research</i> , 2011, 21, 203-215. | 2.4 | 207 |
| 18 | Extremely stable Piwi-induced gene silencing in <i>Caenorhabditis elegans</i> . <i>EMBO Journal</i> , 2012, 31, 3422-3430. | 3.5 | 197 |

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|----|--|------|-----------|
| 19 | Functionally distinct regulatory RNAs generated by bidirectional transcription and processing of microRNA loci. <i>Genes and Development</i> , 2008, 22, 26-36. | 2.7 | 185 |
| 20 | microRNAs associated with the different human Argonaute proteins. <i>Nucleic Acids Research</i> , 2012, 40, 9850-9862. | 6.5 | 179 |
| 21 | Spatially Resolved Genome-wide Transcriptional Profiling Identifies BMP Signaling as Essential Regulator of Zebrafish Cardiomyocyte Regeneration. <i>Developmental Cell</i> , 2016, 36, 36-49. | 3.1 | 176 |
| 22 | Genetic variation in the zebrafish. <i>Genome Research</i> , 2006, 16, 491-497. | 2.4 | 173 |
| 23 | Cloning and expression of new microRNAs from zebrafish. <i>Nucleic Acids Research</i> , 2006, 34, 2558-2569. | 6.5 | 169 |
| 24 | Abundant primary piRNAs, endo-siRNAs, and microRNAs in a <i>Drosophila</i> ovary cell line. <i>Genome Research</i> , 2009, 19, 1776-1785. | 2.4 | 164 |
| 25 | CDE-1 Affects Chromosome Segregation through Uridylation of CSR-1-Bound siRNAs. <i>Cell</i> , 2009, 139, 135-148. | 13.5 | 164 |
| 26 | miRNA Nomenclature: A View Incorporating Genetic Origins, Biosynthetic Pathways, and Sequence Variants. <i>Trends in Genetics</i> , 2015, 31, 613-626. | 2.9 | 164 |
| 27 | Signature of circulating microRNAs in patients with acute heart failure. <i>European Journal of Heart Failure</i> , 2016, 18, 414-423. | 2.9 | 162 |
| 28 | Hen1 is required for oocyte development and piRNA stability in zebrafish. <i>EMBO Journal</i> , 2010, 29, 3688-3700. | 3.5 | 145 |
| 29 | Genome-wide profiling of nucleosome sensitivity and chromatin accessibility in <i>Drosophila melanogaster</i> . <i>Nucleic Acids Research</i> , 2016, 44, 1036-1051. | 6.5 | 111 |
| 30 | Repertoire and evolution of miRNA genes in four divergent nematode species. <i>Genome Research</i> , 2009, 19, 2064-2074. | 2.4 | 107 |
| 31 | Evolutionary flux of canonical microRNAs and mirtrons in <i>Drosophila</i> . <i>Nature Genetics</i> , 2010, 42, 6-9. | 9.4 | 105 |
| 32 | Systemic miRNA-7 delivery inhibits tumor angiogenesis and growth in murine xenograft glioblastoma. <i>Oncotarget</i> , 2014, 5, 6687-6700. | 0.8 | 105 |
| 33 | Mouse microRNA profiles determined with a new and sensitive cloning method. <i>Nucleic Acids Research</i> , 2006, 34, e115-e115. | 6.5 | 96 |
| 34 | Differential Impact of the HEN1 Homolog HENN-1 on 21U and 26G RNAs in the Germline of <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2012, 8, e1002702. | 1.5 | 96 |
| 35 | A Deep Sequencing Approach to Uncover the miRNOME in the Human Heart. <i>PLoS ONE</i> , 2013, 8, e57800. | 1.1 | 88 |
| 36 | Camels and zebrafish, viruses and cancer: a microRNA update. <i>Human Molecular Genetics</i> , 2005, 14, R183-R190. | 1.4 | 86 |

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|----|---|-----|-----------|
| 37 | SEX ALLOCATION ADJUSTMENT TO MATING GROUP SIZE IN A SIMULTANEOUS HERMAPHRODITE. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 3233-3242. | 1.1 | 82 |
| 38 | miR-378a-3p modulates tamoxifen sensitivity in breast cancer MCF-7 cells through targeting GOLT1A. <i>Scientific Reports</i> , 2015, 5, 13170. | 1.6 | 82 |
| 39 | CONREAL: Conserved Regulatory Elements Anchored Alignment Algorithm for Identification of Transcription Factor Binding Sites by Phylogenetic Footprinting. <i>Genome Research</i> , 2003, 14, 170-178. | 2.4 | 78 |
| 40 | Homologous gene targeting in <i>Caenorhabditis elegans</i> by biolistic transformation. <i>Nucleic Acids Research</i> , 2004, 32, 40e-40. | 6.5 | 78 |
| 41 | CONREAL web server: identification and visualization of conserved transcription factor binding sites. <i>Nucleic Acids Research</i> , 2005, 33, W447-W450. | 6.5 | 78 |
| 42 | Small RNAs and the control of transposons and viruses in <i>Drosophila</i> . <i>Trends in Microbiology</i> , 2009, 17, 163-171. | 3.5 | 77 |
| 43 | Potential role of miR-29b in modulation of <i>Dnmt3a</i> and <i>Dnmt3b</i> expression in primordial germ cells of female mouse embryos. <i>Rna</i> , 2009, 15, 1507-1514. | 1.6 | 70 |
| 44 | Tdrd1 acts as a molecular scaffold for Piwi proteins and piRNA targets in zebrafish. <i>EMBO Journal</i> , 2011, 30, 3298-3308. | 3.5 | 70 |
| 45 | MicroRNA-Directed siRNA Biogenesis in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2010, 6, e1000903. | 1.5 | 67 |
| 46 | Low circulating microRNA levels in heart failure patients are associated with atherosclerotic disease and cardiovascular-related rehospitalizations. <i>Clinical Research in Cardiology</i> , 2017, 106, 598-609. | 1.5 | 66 |
| 47 | Guanine quadruplex structures localize to heterochromatin. <i>Nucleic Acids Research</i> , 2016, 44, 152-163. | 6.5 | 60 |
| 48 | Efficient transgenesis and annotated genome sequence of the regenerative flatworm model <i>Macrostomum lignano</i> . <i>Nature Communications</i> , 2017, 8, 2120. | 5.8 | 60 |
| 49 | Expression patterns of intronic microRNAs in <i>Caenorhabditis elegans</i> . <i>Silence: A Journal of RNA Regulation</i> , 2010, 1, 5. | 8.0 | 59 |
| 50 | Spatial Transcriptomics of <i>C. elegans</i> Males and Hermaphrodites Identifies Sex-Specific Differences in Gene Expression Patterns. <i>Developmental Cell</i> , 2018, 47, 801-813.e6. | 3.1 | 55 |
| 51 | Evidence for post-transcriptional regulation of clustered microRNAs in <i>Drosophila</i> . <i>BMC Genomics</i> , 2011, 12, 371. | 1.2 | 54 |
| 52 | Use of biomarkers to establish potential role and function of circulating microRNAs in acute heart failure. <i>International Journal of Cardiology</i> , 2016, 224, 231-239. | 0.8 | 53 |
| 53 | <i>LPIN2</i> Is Associated With Type 2 Diabetes, Glucose Metabolism, and Body Composition. <i>Diabetes</i> , 2007, 56, 3020-3026. | 0.3 | 52 |
| 54 | Single Nucleotide Polymorphisms Associated With Rat Expressed Sequences. <i>Genome Research</i> , 2004, 14, 1438-1443. | 2.4 | 50 |

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|----|--|------|-----------|
| 55 | Modeling Human Cardiac Hypertrophy in Stem Cell-Derived Cardiomyocytes. <i>Stem Cell Reports</i> , 2018, 10, 794-807. | 2.3 | 49 |
| 56 | Neuronal Activity Regulates Hippocampal miRNA Expression. <i>PLoS ONE</i> , 2011, 6, e25068. | 1.1 | 48 |
| 57 | Biological adhesion of the flatworm <i>Macrostomum lignano</i> relies on a duo-gland system and is mediated by a cell type-specific intermediate filament protein. <i>Frontiers in Zoology</i> , 2014, 11, 12. | 0.9 | 46 |
| 58 | Evidence for Karyotype Polymorphism in the Free-Living Flatworm, <i>Macrostomum lignano</i> , a Model Organism for Evolutionary and Developmental Biology. <i>PLoS ONE</i> , 2016, 11, e0164915. | 1.1 | 46 |
| 59 | MicroRNA mir-34 provides robustness to environmental stress response via the DAF-16 network in <i>C. elegans</i> . <i>Scientific Reports</i> , 2016, 6, 36766. | 1.6 | 44 |
| 60 | Transcriptional signatures of somatic neoblasts and germline cells in <i>Macrostomum lignano</i> . <i>ELife</i> , 2016, 5, . | 2.8 | 41 |
| 61 | Boule-like genes regulate male and female gametogenesis in the flatworm <i>Macrostomum lignano</i> . <i>Developmental Biology</i> , 2011, 357, 117-132. | 0.9 | 39 |
| 62 | A position-dependent organisation of retinoid response elements is conserved in the vertebrate Hox clusters. <i>Trends in Genetics</i> , 2003, 19, 476-479. | 2.9 | 38 |
| 63 | Profiling of adhesive-related genes in the freshwater cnidarian <i>Hydra magnipapillata</i> by transcriptomics and proteomics. <i>Biofouling</i> , 2016, 32, 1115-1129. | 0.8 | 36 |
| 64 | Accumulation of 5-oxoproline in myocardial dysfunction and the protective effects of OPLAH. <i>Science Translational Medicine</i> , 2017, 9, . | 5.8 | 36 |
| 65 | Electrical stimulation shifts healing/scarring towards regeneration in a rat limb amputation model. <i>Scientific Reports</i> , 2019, 9, 11433. | 1.6 | 36 |
| 66 | MicroRNAs relate to early worsening of renal function in patients with acute heart failure. <i>International Journal of Cardiology</i> , 2016, 203, 564-569. | 0.8 | 35 |
| 67 | A search for reverse transcriptase-coding sequences reveals new non-LTR retrotransposons in the genome of <i>Drosophila melanogaster</i> . <i>Genome Biology</i> , 2000, 1, research0012.1. | 13.9 | 34 |
| 68 | Positional RNA-Seq identifies candidate genes for phenotypic engineering of sexual traits. <i>Frontiers in Zoology</i> , 2015, 12, 14. | 0.9 | 34 |
| 69 | Controlling miRNA Regulation in Disease. <i>Methods in Molecular Biology</i> , 2012, 822, 1-18. | 0.4 | 33 |
| 70 | The free-living flatworm <i>Macrostomum lignano</i> . <i>EvoDevo</i> , 2020, 11, 5. | 1.3 | 33 |
| 71 | Fine-tuning the brain: MicroRNAs. <i>Frontiers in Neuroendocrinology</i> , 2010, 31, 128-133. | 2.5 | 31 |
| 72 | Towards the identification of ancestrally shared regenerative mechanisms across the Metazoa: A Transcriptomic case study in the Demosponge <i>Halisarca caerulea</i> . <i>Marine Genomics</i> , 2018, 37, 135-147. | 0.4 | 31 |

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|----|---|------|-----------|
| 73 | Sex allocation plasticity on a transcriptome scale: Socially sensitive gene expression in a simultaneous hermaphrodite. <i>Molecular Ecology</i> , 2019, 28, 2321-2341. | 2.0 | 30 |
| 74 | Organ specific gene expression in the regenerating tail of <i>Macrostomum lignano</i> . <i>Developmental Biology</i> , 2018, 433, 448-460. | 0.9 | 28 |
| 75 | Multispecies RNA tomography reveals regulators of hematopoietic stem cell birth in the embryonic aorta. <i>Blood</i> , 2020, 136, 831-844. | 0.6 | 28 |
| 76 | Mesodermal Gene Expression in the Acoel <i>Isodiametra pulchra</i> Indicates a Low Number of Mesodermal Cell Types and the Endomesodermal Origin of the Gonads. <i>PLoS ONE</i> , 2013, 8, e55499. | 1.1 | 26 |
| 77 | Rodent heart failure models do not reflect the human circulating microRNA signature in heart failure. <i>PLoS ONE</i> , 2017, 12, e0177242. | 1.1 | 25 |
| 78 | A pan-metazoan concept for adult stem cells: the wobbling Penrose landscape. <i>Biological Reviews</i> , 2022, 97, 299-325. | 4.7 | 25 |
| 79 | A novel flatworm-specific gene implicated in reproduction in <i>Macrostomum lignano</i> . <i>Scientific Reports</i> , 2018, 8, 3192. | 1.6 | 24 |
| 80 | Resilience to aging in the regeneration-capable flatworm <i>Macrostomum lignano</i> . <i>Aging Cell</i> , 2018, 17, e12739. | 3.0 | 22 |
| 81 | CASCAD: a database of annotated candidate single nucleotide polymorphisms associated with expressed sequences. <i>BMC Genomics</i> , 2005, 6, 10. | 1.2 | 21 |
| 82 | The Hippo Pathway Regulates Stem Cells During Homeostasis and Regeneration of the Flatworm <i>Macrostomum Lignano</i> . <i>Stem Cells and Development</i> , 2013, 22, 2174-2185. | 1.1 | 21 |
| 83 | Chromosome Evolution in the Free-Living Flatworms: First Evidence of Intrachromosomal Rearrangements in Karyotype Evolution of <i>Macrostomum lignano</i> (Platyhelminthes, Macrostomida). <i>Genes</i> , 2017, 8, 298. | 1.0 | 21 |
| 84 | The Flatworm <i>Macrostomum lignano</i> a Powerful Model Organism for Ion Channel and Stem Cell Research. <i>Stem Cells International</i> , 2012, 2012, 1-10. | 1.2 | 20 |
| 85 | Influence of temperature on development, reproduction and regeneration in the flatworm model organism, <i>Macrostomum lignano</i> . <i>Zoological Letters</i> , 2019, 5, 7. | 0.7 | 20 |
| 86 | MicroRNA expression profiles of human leukemias. <i>Leukemia</i> , 2008, 22, 1274-1278. | 3.3 | 19 |
| 87 | GENOTRACE: cDNA-based local GENOME assembly from TRACE archives. <i>Bioinformatics</i> , 2002, 18, 1396-1397. | 1.8 | 17 |
| 88 | Tracing the evolution of tissue identity with microRNAs. <i>Genome Biology</i> , 2010, 11, 111. | 13.9 | 16 |
| 89 | Gene silencing pathways found in the green alga <i>Volvox carteri</i> reveal insights into evolution and origins of small RNA systems in plants. <i>BMC Genomics</i> , 2016, 17, 853. | 1.2 | 15 |
| 90 | The regenerative flatworm <i>Macrostomum lignano</i> , a model organism with high experimental potential. <i>International Journal of Developmental Biology</i> , 2018, 62, 551-558. | 0.3 | 15 |

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|-----|--|-----|-----------|
| 91 | Selenoprotein DIO2 Is a Regulator of Mitochondrial Function, Morphology and UPRmt in Human Cardiomyocytes. International Journal of Molecular Sciences, 2021, 22, 11906. | 1.8 | 13 |
| 92 | Identification of Waldo-A and Waldo-B, Two Closely Related Non-LTR Retrotransposons in Drosophila. Molecular Biology and Evolution, 2001, 18, 196-205. | 3.5 | 12 |
| 93 | Functional microRNA screening using a comprehensive lentiviral human microRNA expression library. BMC Genomics, 2011, 12, 546. | 1.2 | 12 |
| 94 | piRNA dynamics in divergent zebrafish strains reveal long-lasting maternal influence on zygotic piRNA profiles. Rna, 2013, 19, 345-356. | 1.6 | 12 |
| 95 | Novel small RNA expression libraries uncover hsa-miR-30b and hsa-miR-30c as important factors in anoikis resistance. Rna, 2013, 19, 1711-1725. | 1.6 | 12 |
| 96 | Biolistic Transformation of Caenorhabditis elegans. Methods in Molecular Biology, 2013, 940, 77-86. | 0.4 | 12 |
| 97 | Exploring Conservation of Transcription Factor Binding Sites with CONREAL. Methods in Molecular Biology, 2007, 395, 437-448. | 0.4 | 9 |
| 98 | Expression Pattern Analysis of MicroRNAs in Caenorhabditis elegans. Methods in Molecular Biology, 2013, 936, 129-141. | 0.4 | 8 |
| 99 | The Evolution of SINEs and LINEs in the Genus Chironomus (Diptera). Journal of Molecular Evolution, 2004, 58, 269-279. | 0.8 | 6 |
| 100 | Identifying polymorphisms in the Rattus norvegicus D3 dopamine receptor gene and regulatory region. Genes, Brain and Behavior, 2004, 3, 138-148. | 1.1 | 5 |
| 101 | TIM29 is required for enhanced stem cell activity during regeneration in the flatworm Macrostomum lignano. Scientific Reports, 2021, 11, 1166. | 1.6 | 3 |
| 102 | Structure and polymorphism of the Chironomus thummi gene encoding special lobe-specific silk protein, ssp1601 Published in conjunction with A Wisconsin Gathering Honoring Waclaw Szybalski on the occasion of his 75th year and 20 years of Editorship-in-Chief of Gene, 10 th August 1997, University of Wisconsin, Madison, WI, USA.1. Gene, 1998, 223, 347-354. | 1.0 | 2 |
| 103 | Sample Preparation for Small RNA Massive Parallel Sequencing. Methods in Molecular Biology, 2012, 786, 167-178. | 0.4 | 2 |
| 104 | Computational analysis of spliced leader trans-splicing in the regenerative flatworm <i>Macrostomum lignano</i> reveals its prevalence in conserved and stem cell related genes. Vavilovskii Zhurnal Genetiki i Seleksii, 2021, 25, 101-107. | 0.4 | 2 |
| 105 | Proof of principle for piggyBac-mediated transgenesis in the flatworm Macrostomum lignano. Genetics, 2021, 218, . | 1.2 | 2 |
| 106 | Hen1 is required for oocyte development and piRNA stability in zebrafish. EMBO Journal, 2012, 31, 248-248. | 3.5 | 0 |
| 107 | <i>Macrostomum lignano</i> as a model to study the genetics and genomics of parasitic flatworms. Vavilovskii Zhurnal Genetiki i Seleksii, 2021, 25, 108-116. | 0.4 | 0 |
| 108 | Abstract 1112: Identification of microRNA-based therapeutic candidates using a unique lentiviral microRNA overexpression library. , 2012, , . | | 0 |

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|-----|--|-----|-----------|
| 109 | Random Integration Transgenesis in a Free-Living Regenerative Flatworm <i>Macrostomum lignano</i> . <i>Methods in Molecular Biology</i> , 2022, 2450, 493-508. | 0.4 | 0 |
| 110 | Exploring Conservation of Transcription Factor Binding Sites with CONREAL. , 0, , 437-448. | | 0 |
| 111 | MicroRNA Discovery and Expression Profiling using Next-Generation Sequencing. , 0, , 217-228. | | 0 |