# Antonio J Giraldez

List of Publications by Year
in descending order



| 61 | 12,338 | 87723 38 | 133063 59 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 77 | 77 | 77 | 15950 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Zebrafish MiR-430 Promotes Deadenylation and Clearance of Maternal mRNAs. Science, 2006, 312, 75-79. | 6.0 | 1,405 |
| 2 | MicroRNAs Regulate Brain Morphogenesis in Zebrafish. Science, 2005, 308, 833-838. | 6.0 | 1,209 |
| 3 | CRISPRscan: designing highly efficient sgRNAs for CRISPR-Cas9 targeting in vivo. Nature Methods, 2015, 12, 982-988. | 9.0 | 1,024 |
| 4 | Genetic compensation triggered by mutant mRNA degradation. Nature, 2019, 568, 193-197. | 13.7 | 734 |
| 5 | A Novel miRNA Processing Pathway Independent of Dicer Requires Argonaute2 Catalytic Activity. Science, 2010, 328, 1694-1698. | 6.0 | 718 |
| 6 | Ribosome Profiling Shows That miR-430 Reduces Translation Before Causing mRNA Decay in Zebrafish. Science, 2012, 336, 233-237. | 6.0 | 629 |
| 7 | Identification of small ORFs in vertebrates using ribosome footprinting and evolutionary conservation. EMBO Journal, 2014, 33, 981-993. | 3.5 | 587 |
| 8 | Selection-free zinc-finger-nuclease engineering by context-dependent assembly (CoDA). Nature Methods, 2011, 8, 67-69. | 9.0 | 480 |
| 9 | Target Protectors Reveal Dampening and Balancing of Nodal Agonist and Antagonist by miR-430. Science, 2007, 318, 271-274. | 6.0 | 478 |
| 10 | Zygotic Genome Activation During the Maternal-to-Zygotic Transition. Annual Review of Cell and Developmental Biology, 2014, 30, 581-613. | 4.0 | 469 |
| 11 | Nanog, Pou5f1 and SoxB1 activate zygotic gene expression during the maternal-to-zygotic transition. Nature, 2013, 503, 360-364. | 13.7 | 399 |
| 12 | Upstream <scp>ORF</scp>s are prevalent translational repressors in vertebrates. EMBO Journal, 2016, 35, 706-723. | 3.5 | 288 |
| 13 | Differential Regulation of Germline mRNAs in Soma and Germ Cells by Zebrafish miR-430. Current Biology, 2006, 16, 2135-2142. | 1.8 | 280 |
| 14 | Members of the miRNA-200 Family Regulate Olfactory Neurogenesis. Neuron, 2008, 57, 41-55. | 3.8 | 245 |
| 15 | Codon identity regulates <scp>mRNA</scp> stability and translation efficiency during the maternalâ€toâ€zygotic transition. EMBO Journal, 2016, 35, 2087-2103. | 3.5 | 236 |
| 16 | CRISPR-Cpf1 mediates efficient homology-directed repair and temperature-controlled genome editing. Nature Communications, 2017, 8, 2024. | 5.8 | 232 |
| 17 | HSPG Modification by the Secreted Enzyme Notum Shapes the Wingless Morphogen Gradient. Developmental Cell, 2002, 2, 667-676. | 3.1 | 227 |
| 18 | Opposing Activities of Dally-like Glypican at High and Low Levels of Wingless Morphogen Activity. Developmental Cell, 2004, 7, 503-512. | 3.1 | 202 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Estrogens Suppress a Behavioral Phenotype in Zebrafish Mutants of the Autism Risk Gene, CNTNAP2. Neuron, 2016, 89, 725-733. | 3.8 | 170 |
| 20 | Cloche is a bHLH-PAS transcription factor that drives haemato-vascular specification. Nature, 2016, 535, 294-298. | 13.7 | 151 |
| 21 | Zebrafish miR-1 and miR-133 shape muscle gene expression and regulate sarcomeric actin organization. Genes and Development, 2009, 23, 619-632. | 2.7 | 149 |
| 22 | Poly(A)-Specific Ribonuclease Mediates 3â€²-End Trimming of Argonaute2-Cleaved Precursor MicroRNAs. Cell Reports, 2013, 5, 715-726. | 2.9 | 131 |
| 23 | Wingless and Notch signaling provide cell survival cues and control cell proliferation during wing development. Development (Cambridge), 2003, 130, 6533-6543. | 1.2 | 130 |
| 24 | miRNA regulation of Sdf1 chemokine signaling provides genetic robustness to germ cell migration. Nature Genetics, 2011, 43, 204-211. | 9.4 | 110 |
| 25 | Brd4 and P300 Confer Transcriptional Competency during Zygotic Genome Activation. Developmental Cell, 2019, 49, 867-881.e8. | 3.1 | 108 |
| 26 | The Maternal-to-Zygotic Transition During Vertebrate Development. Current Topics in Developmental Biology, 2015, 113, 191-232. | 1.0 | 98 |
| 27 | Quantifying the effect of experimental perturbations at single-cell resolution. Nature Biotechnology, 2021, 39, 619-629. | 9.4 | 98 |
| 28 | miR-1 and miR-206 regulate angiogenesis by modulating VegfA expression in zebrafish. Development (Cambridge), 2012, 139, 4356-4365. | 1.2 | 97 |
| 29 | Nodal Stability Determines Signaling Range. Current Biology, 2005, 15, 31-36. | 1.8 | 93 |
| 30 | Analyses of mRNA structure dynamics identify embryonic gene regulatory programs. Nature Structural and Molecular Biology, 2018, 25, 677-686. | 3.6 | 90 |
| 31 | Adenylation of Maternally Inherited MicroRNAs by Wispy. Molecular Cell, 2014, 56, 696-707. | 4.5 | 87 |
| 32 | Use of target protector morpholinos to analyze the physiological roles of specific miRNA-mRNA pairs in vivo. Nature Protocols, 2011, 6, 2035-2049. | 5.5 | 79 |
| 33 | Evaluation and application of modularly assembled zinc-finger nucleases in zebrafish. Development (Cambridge), 2011, 138, 4555-4564. | 1.2 | 78 |
| 34 | Optimized CRISPRâ€“Cas9 System for Genome Editing in Zebrafish. Cold Spring Harbor Protocols, 2016, 2016, pdb.prot086850. | 0.2 | 67 |
| 35 | Ythdf m6A Readers Function Redundantly during Zebrafish Development. Cell Reports, 2020, 33, 108598. | 2.9 | 67 |
| 36 | MicroRNA Function and Mechanism: Insights from Zebra Fish. Cold Spring Harbor Symposia on Quantitative Biology, 2006, 71, 195-203. | 2.0 | 66 |

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|---|---|---|---|
| 37 | microRNAs, the cell's Nepenthe: clearing the past during the maternal-to-zygotic transition and cellular reprogramming. Current Opinion in Genetics and Development, 2010, 20, 369-375. | 1.5 | 59 |
| 38 | Genome wide analysis of 3â€² UTR sequence elements and proteins regulating mRNA stability during maternal-to-zygotic transition in zebrafish. Genome Research, 2019, 29, 1100-1114. | 2.4 | 49 |
| 39 | miR-1-2 Gets to the Heart of the Matter. Cell, 2007, 129, 247-249. | 13.5 | 42 |
| 40 | Successful amplification of DNA aboard the International Space Station. Npj Microgravity, 2017, 3, 26. | 1.9 | 39 |
| 41 | Optimized CRISPR-Cpf1 system for genome editing in zebrafish. Methods, 2018, 150, 11-18. | 1.9 | 38 |
| 42 | The landscape of pioneer factor activity reveals the mechanisms of chromatin reprogramming and genome activation. Molecular Cell, 2022, 82, 986-1002.e9. | 4.5 | 38 |
| 43 | miR-430 regulates oriented cell division during neural tube development in zebrafish. Developmental Biology, 2016, 409, 442-450. | 0.9 | 35 |
| 44 | Precise SDF1-mediated cell guidance is achieved through ligand clearance and microRNA-mediated decay. Journal of Cell Biology, 2013, 200, 337-355. | 2.3 | 34 |
| 45 | RESA identifies mRNA-regulatory sequences at high resolution. Nature Methods, 2017, 14, 201-207. | 9.0 | 34 |
| 46 | MicroRNAs as genetic sculptors: Fishing for clues. Seminars in Cell and Developmental Biology, 2010, 21, 760-767. | 2.3 | 30 |
| 47 | Bicc1 and Dicer regulate left-right patterning through post-transcriptional control of the Nodal inhibitor Dand5. Nature Communications, 2021, 12, 5482. | 5.8 | 24 |
| 48 | Genome editing in animals with minimal PAM CRISPR-Cas9 enzymes. Nature Communications, 2022, 13, 2601. | 5.8 | 24 |
| 49 | RES complex is associated with intron definition and required for zebrafish early embryogenesis. PLoS Genetics, 2018, 14, e1007473. | 1.5 | 23 |
| 50 | A naturally occurring alternative product of the mastermind locus that represses notch signalling. Mechanisms of Development, 2002, 115, 101-105. | 1.7 | 17 |
| 51 | LabxDB: versatile databases for genomic sequencing and lab management. Bioinformatics, 2020, 36, 4530-4531. | 1.8 | 14 |
| 52 | RNA Methylation Clears the Way. Developmental Cell, 2017, 40, 427-428. | 3.1 | 10 |
| 53 | A Functional Non-coding RNA Is Produced from xbp-1 mRNA. Neuron, 2020, 107, 854-863.e6. | 3.8 | 10 |
| 54 | Satb2 acts as a gatekeeper for major developmental transitions during early vertebrate embryogenesis. Nature Communications, 2021, 12, 6094. | 5.8 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Optimization Strategies for the CRISPRâ€“Cas9 Genome-Editing System. Cold Spring Harbor Protocols, 2016, 2016, pdb.top090894. | 0.2 | 8 |
| 56 | A proteomics approach identifies novel resident zebrafish Balbiani body proteins Cirbpa and Cirbpb. Developmental Biology, 2022, 484, 1-11. | 0.9 | 8 |
| 57 | Reply to: "On the robustness of germ cell migration and microRNA-mediated regulation of chemokine signaling". Nature Genetics, 2013, 45, 1266-1267. | 9.4 | 6 |
| 58 | MicroRNAs Sculpt Gene Expression in Embryonic Development: New Insights from Plants. Developmental Cell, 2011, 20, 3-4. | 3.1 | 5 |
| 59 | Stage Specific Transcriptomic Analysis and Database for Zebrafish Oogenesis. Frontiers in Cell and Developmental Biology, 0, 10, . | 1.8 | 3 |
| 60 | A group approach to growing as a principal investigator. Current Biology, 2022, 32, R498-R504. | 1.8 | 2 |
| 61 | Giving translation a hand. Developmental Cell, 2021, 56, 2921-2923. | 3.1 | 0 |