

Ian J Macrae

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

4,132
citations

430874

18
h-index

580821

25
g-index

32
all docs

32
docs citations

32
times ranked

5352
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of microRNA function in Animals. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 21-37.	37.0	1,556
2	The Crystal Structure of Human Argonaute2. <i>Science</i> , 2012, 336, 1037-1040.	12.6	570
3	Structural basis for microRNA targeting. <i>Science</i> , 2014, 346, 608-613.	12.6	468
4	A Dynamic Search Process Underlies MicroRNA Targeting. <i>Cell</i> , 2015, 162, 96-107.	28.9	241
5	Phase Transitions in the Assembly and Function of Human miRISC. <i>Cell</i> , 2018, 173, 946-957.e16.	28.9	205
6	Structural Basis for Target-Directed MicroRNA Degradation. <i>Molecular Cell</i> , 2019, 75, 1243-1255.e7.	9.7	163
7	COMRADES determines in vivo RNA structures and interactions. <i>Nature Methods</i> , 2018, 15, 785-788.	19.0	143
8	Structural Foundations of RNA Silencing by Argonaute. <i>Journal of Molecular Biology</i> , 2017, 429, 2619-2639.	4.2	118
9	Beyond the seed: structural basis for supplementary micro RNA targeting by human Argonaute2. <i>EMBO Journal</i> , 2019, 38, e101153.	7.8	105
10	Highly Complementary Target RNAs Promote Release of Guide RNAs from Human Argonaute2. <i>Molecular Cell</i> , 2013, 50, 344-355.	9.7	102
11	Water-mediated recognition of t1-adenosine anchors Argonaute2 to microRNA targets. <i>ELife</i> , 2015, 4, .	6.0	78
12	Helix 7 in Argonaute2 shapes the microRNA seed region for rapid target recognition. <i>EMBO Journal</i> , 2018, 37, 75-88.	7.8	63
13	Structural basis for piRNA targeting. <i>Nature</i> , 2021, 597, 285-289.	27.8	57
14	miR-122 and Ago interactions with the HCV genome alter the structure of the viral 5' terminus. <i>Nucleic Acids Research</i> , 2019, 47, 5307-5324.	14.5	50
15	Structure-Guided Control of siRNA Off-Target Effects. <i>Journal of the American Chemical Society</i> , 2016, 138, 8667-8669.	13.7	35
16	mRNA structural dynamics shape Argonaute-target interactions. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 790-801.	8.2	32
17	GTSF1 accelerates target RNA cleavage by PIWI-clade Argonaute proteins. <i>Nature</i> , 2022, 608, 618-625.	27.8	24
18	How Complementary Targets Expose the microRNA 3' End for Tailing and Trimming during Target-Directed microRNA Degradation. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2019, 84, 179-183.	1.1	21

#	ARTICLE	IF	CITATIONS
19	Purification and Assembly of Human Argonaute, Dicer, and TRBP Complexes. <i>Methods in Molecular Biology</i> , 2011, 725, 107-119.	0.9	18
20	Toward a Comprehensive View of MicroRNA Biology. <i>Molecular Cell</i> , 2019, 75, 666-668.	9.7	16
21	Robust differential microRNA targeting driven by supplementary interactions in vitro. <i>Rna</i> , 2020, 26, 162-174.	3.5	14
22	miR-122-based therapies select for three distinct resistance mechanisms based on alterations in RNA structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
23	The molecular mechanism of microRNA duplex selectivity of <i>Arabidopsis</i> ARGONAUTE10. <i>Nucleic Acids Research</i> , 2022, 50, 10041-10052.	14.5	12
24	A structured RNA motif locks Argonaute2:miR-122 onto the 5' end of the HCV genome. <i>Nature Communications</i> , 2021, 12, 6836.	12.8	11
25	Structural insights into interactions between viral suppressor of RNA silencing protein p19 mutants and small RNA silencing proteins. <i>FEBS Open Bio</i> , 2019, 9, 1042-1051.	2.3	6
26	Structural Basis for Target-Directed MicroRNA Degradation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
27	A Moonlighting microRNA: Mechanism(s) of miR-122-Mediated Viral RNA Accumulation. <i>Proceedings (mdpi)</i> , 2020, 50, .	0.2	0