

# Ian J Macrae

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4843002/publications.pdf>

Version: 2024-02-01

27  
papers

4,132  
citations

430754

18  
h-index

580701

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.  | 16.1 | 1,556     |
| 2  | The Crystal Structure of Human Argonaute2. <i>Science</i> , 2012, 336, 1037-1040.  | 6.0  | 570       |
| 3  | Structural basis for microRNA targeting. <i>Science</i> , 2014, 346, 608-613.  | 6.0  | 468       |
| 4  | A Dynamic Search Process Underlies MicroRNA Targeting. <i>Cell</i> , 2015, 162, 96-107.  | 13.5 | 241       |
| 5  | Phase Transitions in the Assembly and Function of Human miRISC. <i>Cell</i> , 2018, 173, 946-957.e16.  | 13.5 | 205       |
| 6  | Structural Basis for Target-Directed MicroRNA Degradation. <i>Molecular Cell</i> , 2019, 75, 1243-1255.e7.   | 4.5  | 163       |
| 7  | COMRADES determines in vivo RNA structures and interactions. <i>Nature Methods</i> , 2018, 15, 785-788.  | 9.0  | 143       |
| 8  | Structural Foundations of RNA Silencing by Argonaute. <i>Journal of Molecular Biology</i> , 2017, 429, 2619-2639.  | 2.0  | 118       |
| 9  | Beyond the seed: structural basis for supplementary micro RNA targeting by human Argonaute2. <i>EMBO Journal</i> , 2019, 38, e101153.  | 3.5  | 105       |
| 10 | Highly Complementary Target RNAs Promote Release of Guide RNAs from Human Argonaute2. <i>Molecular Cell</i> , 2013, 50, 344-355.   | 4.5  | 102       |
| 11 | Water-mediated recognition of t1-adenosine anchors Argonaute2 to microRNA targets. <i>ELife</i> , 2015, 4, .   | 2.8  | 78        |
| 12 | Helix 7 in Argonaute2 shapes the microRNA seed region for rapid target recognition. <i>EMBO Journal</i> , 2018, 37, 75-88.   | 3.5  | 63        |
| 13 | Structural basis for piRNA targeting. <i>Nature</i> , 2021, 597, 285-289.  | 13.7 | 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.  | 6.5  | 50        |
| 15 | Structure-Guided Control of siRNA Off-Target Effects. <i>Journal of the American Chemical Society</i> , 2016, 138, 8667-8669.  | 6.6  | 35        |
| 16 | mRNA structural dynamics shape Argonaute-target interactions. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 790-801.  | 3.6  | 32        |
| 17 | GTSF1 accelerates target RNA cleavage by PIWI-clade Argonaute proteins. <i>Nature</i> , 2022, 608, 618-625.  | 13.7 | 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. | 2.0  | 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.   | 0.4 | 18        |
| 20 | Toward a Comprehensive View of MicroRNA Biology. <i>Molecular Cell</i> , 2019, 75, 666-668.  | 4.5 | 16        |
| 21 | Robust differential microRNA targeting driven by supplementary interactions in vitro. <i>Rna</i> , 2020, 26, 162-174.  | 1.6 | 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, . | 3.3 | 13        |
| 23 | The molecular mechanism of microRNA duplex selectivity of <i>Arabidopsis</i> ARGONAUTE10. <i>Nucleic Acids Research</i> , 2022, 50, 10041-10052.   | 6.5 | 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.  | 5.8 | 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.                                     | 1.0 | 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         |