

# Harry F Noller

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3496565/publications.pdf>

Version: 2024-02-01

48

papers

6,793

citations

172457

29

h-index

243625

44

g-index

48

all docs

48

docs citations

48

times ranked

3507

citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | The universally conserved nucleotides of the small subunit ribosomal RNAs. <i>Rna</i> , 2022, 28, 623-644.   | 3.5  | 6         |
| 2  | Mutations in domain IV of elongation factor EF-G confer $\sim 1$ frameshifting. <i>Rna</i> , 2021, 27, 40-53.  | 3.5  | 12        |
| 3  | The structural basis for inhibition of ribosomal translocation by viomycin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10271-10277.       | 7.1  | 16        |
| 4  | Co-temporal Force and Fluorescence Measurements Reveal a Ribosomal Gear Shift Mechanism of Translation Regulation by Structured mRNAs. <i>Molecular Cell</i> , 2019, 75, 1007-1019.e5.             | 9.7  | 46        |
| 5  | A tandem active site model for the ribosomal helicase. <i>FEBS Letters</i> , 2019, 593, 1009-1019.   | 2.8  | 9         |
| 6  | Spontaneous ribosomal translocation of mRNA and tRNAs into a chimeric hybrid state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7813-7818. | 7.1  | 43        |
| 7  | Structural evidence for product stabilization by the ribosomal mRNA helicase. <i>Rna</i> , 2019, 25, 364-375.  | 3.5  | 21        |
| 8  | The parable of the caveman and the Ferrari: protein synthesis and the RNA world. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160187.              | 4.0  | 8         |
| 9  | Recurring RNA structural motifs underlie the mechanics of L1 stalk movement. <i>Nature Communications</i> , 2017, 8, 14285.  | 12.8 | 44        |
| 10 | Ribosome structural dynamics in translocation: yet another functional role for ribosomal RNA. <i>Quarterly Reviews of Biophysics</i> , 2017, 50, e12.  | 5.7  | 44        |
| 11 | The ribosome moves: RNA mechanics and translocation. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 1021-1027.   | 8.2  | 76        |
| 12 | Brave new RNA world. <i>Rna</i> , 2015, 21, 478-479.   | 3.5  | 0         |
| 13 | Initiation of translation in bacteria by a structured eukaryotic IRES RNA. <i>Nature</i> , 2015, 519, 110-113.   | 27.8 | 51        |
| 14 | Secondary structure adventures with Carl Woese. <i>RNA Biology</i> , 2014, 11, 225-231.  | 3.1  | 2         |
| 15 | Molecular mechanics of 30S subunit head rotation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13325-13330.                                 | 7.1  | 88        |
| 16 | How the ribosome hands the A-site tRNA to the P site during EF-G-catalyzed translocation. <i>Science</i> , 2014, 345, 1188-1191.   | 12.6 | 157       |
| 17 | THE MOLECULAR MECHANICS OF THE RIBOSOME. , 2014, , .   |      | 0         |
| 18 | Antibiotics that bind to the A site of the large ribosomal subunit can induce mRNA translocation. <i>Rna</i> , 2013, 19, 158-166.  | 3.5  | 30        |

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|----|---|------|-----------|
| 19 | How Does the Ribosome Sense a Cognate tRNA?. <i>Journal of Molecular Biology</i> , 2013, 425, 3776-3777.  | 4.2  | 8         |
| 20 | Visualization of two transfer RNAs trapped in transit during elongation factor G-mediated translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20964-20969. | 7.1  | 122       |
| 21 | Crystal Structures of EF-G-Ribosome Complexes Trapped in Intermediate States of Translocation. <i>Science</i> , 2013, 340, 1236086.   | 12.6 | 206       |
| 22 | By Ribosome Possessed. <i>Journal of Biological Chemistry</i> , 2013, 288, 24872-24885.   | 3.4  | 3         |
| 23 | Crystal structure of release factor RF3 trapped in the GTP state on a rotated conformation of the ribosome. <i>Rna</i> , 2012, 18, 230-240.   | 3.5  | 87        |
| 24 | Evolution of Protein Synthesis from an RNA World. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a003681-a003681.   | 5.5  | 95        |
| 25 | Rotation of the head of the 30S ribosomal subunit during mRNA translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20391-20394.                             | 7.1  | 113       |
| 26 | mRNA translocation occurs during the second step of ribosomal intersubunit rotation. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 457-462.  | 8.2  | 125       |
| 27 | Crystal Structures of Translation Termination Complexes. <i>FASEB Journal</i> , 2010, 24, 197.3.  | 0.5  | 0         |
| 28 | Spontaneous Intersubunit Rotation in Single Ribosomes. <i>Molecular Cell</i> , 2008, 30, 578-588.   | 9.7  | 370       |
| 29 | Elongation factor G stabilizes the hybrid-state conformation of the 70S ribosome. <i>Rna</i> , 2007, 13, 1473-1482.   | 3.5  | 118       |
| 30 | Observation of Intersubunit Movement of the Ribosome in Solution Using FRET. <i>Journal of Molecular Biology</i> , 2007, 370, 530-540.  | 4.2  | 190       |
| 31 | The antibiotic viomycin traps the ribosome in an intermediate state of translocation. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 493-497.   | 8.2  | 129       |
| 32 | Crystal Structure of a 70S Ribosome-tRNA Complex Reveals Functional Interactions and Rearrangements. <i>Cell</i> , 2006, 126, 1065-1077.  | 28.9 | 463       |
| 33 | The 30S ribosomal P site: a function of 16S rRNA. <i>FEBS Letters</i> , 2005, 579, 855-858.   | 2.8  | 27        |
| 34 | RNA Structure: Reading the Ribosome. <i>Science</i> , 2005, 309, 1508-1514.   | 12.6 | 302       |
| 35 | The driving force for molecular evolution of translation. <i>Rna</i> , 2004, 10, 1833-1837.   | 3.5  | 82        |
| 36 | Catalysis of Ribosomal Translocation by Sparsomycin. <i>Science</i> , 2003, 300, 1159-1162.   | 12.6 | 134       |

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|----|--|------|-----------|
| 37 | Crystal Structure of the Ribosome at 5.5 Å Resolution. <i>Science</i> , 2001, 292, 883-896.  | 12.6 | 1,789     |
| 38 | The location of protein S8 and surrounding elements of 16S rRNA in the 70S ribosome from combined use of directed hydroxyl radical probing and X-ray crystallography. <i>Rna</i> , 2000, 6, 717-729. | 3.5  | 20        |
| 39 | Calculation of the relative geometry of tRNAs in the ribosome from directed hydroxyl-radical probing data. <i>Rna</i> , 2000, 6, 220-232.  | 3.5  | 13        |
| 40 | Efficient reconstitution of functional <i>Escherichia coli</i> 30S ribosomal subunits from a complete set of recombinant small subunit ribosomal proteins. <i>Rna</i> , 1999, 5, 832-843.            | 3.5  | 104       |
| 41 | Directed hydroxyl radical probing of 16S rRNA in the ribosome: Spatial proximity of RNA elements of the 3' and 5' domains. <i>Rna</i> , 1999, 5, 849-855.  | 3.5  | 10        |
| 42 | Identification of an RNA-Protein Bridge Spanning the Ribosomal Subunit Interface. <i>Science</i> , 1999, 285, 2133-2135.   | 12.6 | 82        |
| 43 | Directed hydroxyl radical probing of 16S ribosomal RNA in ribosomes containing Fe(II) tethered to ribosomal protein S20. <i>Rna</i> , 1998, 4, 1471-1480.  | 3.5  | 25        |
| 44 | RIBOSOMES AND TRANSLATION. <i>Annual Review of Biochemistry</i> , 1997, 66, 679-716.   | 11.1 | 510       |
| 45 | Structure of a conserved RNA component of the peptidyl transferase centre. <i>Nature Structural Biology</i> , 1997, 4, 775-778.  | 9.7  | 35        |
| 46 | A base pair between tRNA and 23S rRNA in the peptidyl transferase centre of the ribosome. <i>Nature</i> , 1995, 377, 309-314.  | 27.8 | 250       |
| 47 | Intermediate states in the movement of transfer RNA in the ribosome. <i>Nature</i> , 1989, 342, 142-148.   | 27.8 | 727       |
| 48 | Studies on the Structure and Function of Ribosomes by Combined Use of Chemical Probing and X-Ray Crystallography. , 0, , 127-150.  |      | 1         |