

List of Publications

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A) Submitted Manuscripts / Preprints

1. Jule Walter, Leonhard Sidl, Katrin Gutenbrunner, Denis Skibinski, Tim Kolberg, Ivo L. Hofacker, Hua-Ting Yao, Mario Mörl, and Michael T. Wolfinger. Rational design of mechanically active RNAs: de novo engineering of functional exoribonuclease-resistant RNAs. *bioRxiv*, 2026, doi:10.64898/2026.01.08.698366. Preprint
2. Liam Kerr, Danielle L. Gemmill, Higor S. Pereira, Michael T. Wolfinger, and Trushar R. Patel. "Circle of Life"-Zika virus genomic cyclization is controlled by sequence specificity. 2025. Submitted manuscript

B) Refereed Journal Papers

3. Ivana Borovská, Chundan Zhang, Sarah-Luisa J. Dulk, Edoardo Morandi, Marta F. S. Cardoso, Billal M. Bourkia, Daphne A. L. van den Homberg, Michael T. Wolfinger, Willem A. Velema, and Danny Incarnato. Identification of conserved RNA regulatory switches in living cells using RNA secondary structure ensemble mapping and covariation analysis. *Nat. Biotechnol.*, Jul 2025, doi:10.1038/s41587-025-02739-0. PMID: 40715458
4. Nitchakan Darai, Leonhard Sidl, Thanyada Rungrotmongkol, Peter Wolschann, and Michael T. Wolfinger. From structure to function: Computational insights into Musashi-RNA complexes in the context of viral pathogenesis and beyond. *Sci. Asia*, 51S(1):2025s013, Jun 2025, doi:10.2306/scienceasia1513-1874.2025.s013
5. Benoit Besson, Gijs J. Overheul, Michael T. Wolfinger, Sandra Junglen, and Ronald P. van Rij. Pan-flavivirus analysis reveals sfRNA-independent, 3'UTR-biased siRNA production from an insect-specific flavivirus. *J. Virol.*, pages e01215–24, Oct 2024, doi:10.1128/jvi.01215-24. PMCID: PMC11575252
6. Lan-Lan Wang, Qia Cheng, Natalee D. Newton, Michael T. Wolfinger, Mahali S. Morgan, Andrii Slonchak, Alexander A. Khromykh, Tian-Yin Cheng, and Rhys H. Parry. Xinyang flavivirus, from *Haemaphysalis flava* ticks in Henan province, China, defines a basal, likely tick-only *Orthoflavivirus* clade. *J. Gen. Virol.*, 105(5), May 2024, doi:10.1099/jgv.0.001991. PMCID: PMC11165663
7. Jakob McBroome, Adriano de Bernardi Schneider, Cornelius Roemer, Michael T. Wolfinger, Angie S. Hinrichs, Aine Niamh O'Toole, Christopher Ruis, Yatish Turakhia, Andrew Rambaut, and Russell Corbett-Detig. A framework for automated scalable designation of viral pathogen lineages from genomic data. *Nat. Microbiol.*, 9:550–560, Feb 2024, doi:10.1038/s41564-023-01587-5. PMCID: PMC10847047
8. Danielle L. Gemmill, Corey R. Nelson, Maulik D. Badmalia, Higor S. Pereira, Liam Kerr, Michael T. Wolfinger, and Trushar R. Patel. The 3' terminal region of Zika virus RNA contains a conserved G-quadruplex and is unfolded by human DDX17. *Biochem. Cell Biol.*, 102(1):96–105, Feb 2024, doi:10.1139/bcb-2023-0036. PMID: 37774422
9. Nitchakan Darai, Kowit Hengphasatporn, Peter Wolschann, Michael T. Wolfinger, Yasuteru Shigeta, Thanyada Rungrotmongkol, and Ryuhei Harada. A Structural Refinement Technique for Protein-RNA Complexes Based on a Combination of AI-based Modeling and Flexible Docking: A Study of Musashi-1 Protein. *B. Chem. Soc. Jpn.*, 96(7):677–685, Jun 2023, doi:10.1246/bcsj.20230092
10. Tyler Mrozowich, Sean M. Park, Maria Waldl, Amy Henrickson, Scott Tersteeg, Corey R. Nelson, Anneke De Klerk, Borries Demeler, Ivo L. Hofacker, Michael T. Wolfinger, and Trushar R. Patel. Investigating RNA-RNA interactions through computational and biophysical analysis. *Nucleic Acids Res.*, 51(9):4588–4601, Mar 2023, doi:10.1093/nar/gkad223. PMCID: PMC10201368
11. Roman Ochsenreiter and Michael T. Wolfinger. Strukturierte RNAs in Viren. *BIOspektrum*, 29:156–158, Mar 2023, doi:10.1007/s12268-023-1907-x. PMCID: PMC10101536 In German
12. Nitchakan Darai, Panupong Mahalapbutr, Peter Wolschann, Vannajan Sanghiran Lee, Michael T. Wolfinger, and Thanyada Rungrotmongkol. Theoretical studies on RNA recognition by Musashi 1 RNA-binding protein. *Sci. Rep.*, 12:12137, Jul 2022, doi:10.1038/s41598-022-16252-w. PMCID: PMC9287312

13. Christoph Flamm, Julia Wielach, Michael T. Wolfinger, Stefan Badelt, Ronny Lorenz, and Ivo L. Hofacker. Caveats to deep learning approaches to RNA secondary structure prediction. *Front. Bioinform.*, 2:835422, Jul 2022, doi:10.3389/fbinf.2022.835422. PMCID: PMC9580944
14. Marlena Rozner, Ella Nukarinen, Michael T. Wolfinger, Fabian Amman, Wolfram Weckwerth, Udo Bläsi, and Elisabeth Sonnleitner. Rewiring of Gene Expression in *Pseudomonas aeruginosa* During Diauxic Growth Reveals an Indirect Regulation of the MexGHI-OpmD Efflux Pump by Hfq. *Front. Microbiol.*, 13:919539, Jun 2022, doi:10.3389/fmicb.2022.919539. PMCID: PMC9272787
15. Lena S. Kutschera and Michael T. Wolfinger. Evolutionary traits of Tick-borne encephalitis virus: Pervasive RNA structure conservation and molecular epidemiology. *Virus Evol.*, 8(1), Jun 2022, doi:10.1093/ve/veac051. PMCID: PMC9272599
16. Michael H. D'Souza, Tyler Mrozovich, Maulik D. Badamalia, Mitchell Geeraert, Angela Frederickson, Amy Henrickson, Borries Demeler, Michael T. Wolfinger, and Trushar R. Patel. Biophysical Characterisation of Human LincRNA-p21 Sense and Antisense Alu Inverted Repeats. *Nucleic Acids Res.*, 50(10):5881–5898, May 2022, doi:10.1093/nar/gkac414. PMCID: PMC9177966
17. Devadatta Gosavi, Iwona Wower, Irene K. Beckmann, Ivo L. Hofacker, Jacek Wower, Michael T. Wolfinger, and Joanna Sztuba-Solinska. Insight into the secondary and tertiary structure of the Bovine Viral Diarrhea Virus Internal Ribosome Entry Site. *RNA Biol.*, 19:496–506, Mar 2022, doi:10.1080/15476286.2022.2058818. PMCID: PMC8986297
18. Anastasia Cianciulli Sesso, Branislav Lilić, Fabian Amman, Michael T. Wolfinger, Elisabeth Sonnleitner, and Udo Bläsi. Gene Expression Profiling of *Pseudomonas aeruginosa* Upon Exposure to Colistin and Tobramycin. *Front. Microbiol.*, 12:937, Apr 2021, doi:10.3389/fmicb.2021.626715. PMCID: PMC8120321
19. Hayato Harima, Yasuko Orba, Shiho Torii, Yongjin Qiu, Masahiro Kajihara, Yoshiki Eto, Naoya Matsuta, Hang'ombe Bernard M., Yuki Eshita, Kentaro Uemura, Keita Matsuno, Michihito Sasaki, Kentaro Yoshii, Ryo Nakao, William W. Hall, Ayato Takada, Takashi Abe, Michael T. Wolfinger, Martin Simmunza, and Hirofumi Sawa. An African tick flavivirus forming an independent clade exhibits unique exoribonuclease-resistant RNA structures in the genomic 3'-untranslated region. *Sci. Rep.*, 11:4883, Mar 2021, doi:10.1038/s41598-021-84365-9. PMCID: PMC7921595
20. Thomas Spicher, Markus Delitz, Adriano de Bernardi Schneider, and Michael T. Wolfinger. Dynamic Molecular Epidemiology Reveals Lineage-Associated Single-Nucleotide Variants That Alter RNA Structure in Chikungunya Virus. *Genes*, 12(2):239, Feb 2021, doi:10.3390/genes12020239. PMCID: PMC7914560
21. Alexandra Popa, Jakob-Wendelin Genger, Michael D. Nicholson, Thomas Penz, Daniela Schmid, Stephan W Aberle, Benedikt Agerer, Alexander Lercher, Lukas Endler, Henrique Colaco, Mark Smyth, Michael Schuster, Miguel L. Grau, Francisco Martínez-Jiménez, Oriol Pich, Wegene Borena, Erich Pawelka, Zsofia Keszei, Martin Senekowitsch, Jan Laine, Judith H Aberle, Monika Redlberger-Fritz, Mario Karolyi, Alexander Zoufaly, Sabine Maritschnik, Martin Borkovec, Peter Hufnagl, Manfred Nairz, Günter Weiss, Michael T. Wolfinger, Dorothee von Laer, Giulio Superti-Furga, Nuria Lopez-Bigas, Elisabeth Puchhammer-Stöckl, Franz Allerberger, Franziska Michor, Christoph Bock, and Andreas Bergthaler. Genomic epidemiology of superspreading events in Austria reveals mutational dynamics and transmission properties of SARS-CoV-2. *Sci. Transl. Med.*, 12, Dec 2020, doi:10.1126/scitranslmed.abe2555. PMCID: PMC7857414
22. Christida E. Wastika, Hayato Harima, Michihito Sasakai, Bernard M. Hang'ombe, Yuki Eshita, Qiu Yongjin, William W. Hall, Michael T. Wolfinger, Hirofumi Sawa, and Yasuko Orba. Discoveries of Exoribonuclease-Resistant Structures of Insect-Specific Flaviviruses Isolated in Zambia. *Viruses*, 12:1017, Sep 2020, doi:10.3390/v12091017. PMCID: PMC7551683
23. Elisabeth Sonnleitner, Petra Pusic, Michael T. Wolfinger, and Udo Bläsi. Distinctive regulation of carbapenem susceptibility in *Pseudomonas aeruginosa* by Hfq. *Front. Microbiol.*, 11:1001, May 2020, doi:10.3389/fmicb.2020.01001. PMCID: PMC7264166
24. Adriano de Bernardi Schneider, Roman Ochsenreiter, Reilly Hostager, Ivo L. Hofacker, Daniel Janies, and Michael T. Wolfinger. Updated Phylogeny of Chikungunya Virus Suggests Lineage-Specific RNA Architecture. *Viruses*, 11:798, Aug 2019, doi:10.3390/v11090798. PMCID: PMC6784101
25. Adriano de Bernardi Schneider and Michael T. Wolfinger. Musashi binding elements in Zika and related Flavivirus 3'UTRs: A comparative study *in silico*. *Sci. Rep.*, 9(1):6911, May 2019, doi:10.1038/s41598-019-43390-5. PMCID: PMC6502878

26. Flavia Bassani, Isabelle Anna Zink, Thomas Pribasnig, Michael T. Wolfinger, Alice Romagnoli, Armin Resch, Christa Schleper, Udo Bläsi, and Anna La Teana. Indications for a moonlighting function of translation factor aIF5A in the crenarchaeum *Sulfolobus solfataricus*. *RNA Biol.*, 16(5):675–685, May 2019, doi:10.1080/15476286.2019.1582953. PMCID: PMC6546411
27. Roman Ochsenreiter, Ivo L. Hofacker, and Michael T. Wolfinger. Functional RNA Structures in the 3'UTR of Tick-borne, Insect-specific and No Known Vector Flaviviruses. *Viruses*, 11:298, Mar 2019, doi:10.3390/v11030298. PMCID: PMC6466055
28. Petra Pusic, Elisabeth Sonnleitner, Beatrice Krennmayr, Dorothea Agnes Heitzinger, Michael T. Wolfinger, Armin Resch, and Udo Bläsi. Harnessing Metabolic Regulation to increase Hfq-dependent Antibiotic Susceptibility in *Pseudomonas aeruginosa*. *Front. Microbiol.*, 9:2709, Nov 2018, doi:10.3389/fmicb.2018.02709. PMCID: PMC6237836
29. Maria Waldl, Bernhard C. Thiel, Roman Ochsenreiter, Alexander Holzenleiter, João Victor de Araujo Oliveira, Maria Emilia M.T. Walter, Michael T. Wolfinger, and Peter F. Stadler. TERribly Difficult: Searching for Telomerase RNAs in Saccharomycetes. *Genes*, 9(8):372, Jul 2018, doi:10.3390/genes9080372. PMCID: PMC6115765
30. Michael T. Wolfinger, Christoph Flamm, and Ivo L. Hofacker. Efficient computation of cotranscriptional RNA-ligand interaction dynamics. *Methods*, 143:70–76, Jul 2018, doi:10.1016/j.ymeth.2018.04.036. PMID: 29730250
31. Sven Findeiß, Stefan Hammer, Michael T. Wolfinger, Felix Kühnl, Christoph Flamm, and Ivo L. Hofacker. In silico design of ligand triggered RNA switches. *Methods*, 143:90–101, Jul 2018, doi:10.1016/j.ymeth.2018.04.003. PMID: 29660485
32. Elisabeth Sonnleitner, Alexander Wulf, Sébastien Campagne, Xue-Yuan Pei, Michael T. Wolfinger, Giada Forlani, Konstantin Prindl, Laetitia Abdou, Armin Resch, Frederic Allain, Ben Luisi, Henning Urlaub, and Udo Bläsi. Interplay between the catabolite repression control protein Crc, Hfq and RNA in Hfq-dependent translational regulation in *Pseudomonas aeruginosa*. *Nucleic Acids Res.*, 46:1470–1485, Feb 2018, doi:10.1093/nar/gkx1245. PMCID: PMC5815094
33. Muralidhar Tata, Fabian Amman, Vinay Pawar, Michael T. Wolfinger, Siegfried Weiss, Susanne Häussler, and Udo Bläsi. The anaerobically induced sRNA Pail affects denitrification in *Pseudomonas aeruginosa* PA14. *Front. Microbiol.*, 8:2312, Nov 2017, doi:10.3389/fmicb.2017.02312. PMCID: PMC5703892
34. Birgit Märtens, Linlin Hou, Fabian Amman, Michael T. Wolfinger, Elena Evguenieva-Hackenberg, and Udo Bläsi. The SmAP1/2 proteins of the crenarchaeon *Sulfolobus solfataricus* interact with the exosome and stimulate A-rich tailing of transcripts. *Nucleic Acids Res.*, 45:7938–7949, Jul 2017, doi:10.1093/nar/gkx437. PMCID: PMC5570065
35. Christina Helmling, Anna Wacker, Michael T. Wolfinger, Ivo L. Hofacker, Martin Hengsbach, Boris Fürtig, and Harald Schwalbe. NMR structural profiling of transcriptional intermediates reveals riboswitch regulation by metastable RNA conformations. *J. Am. Chem. Soc.*, 139(7):2647–2656, Feb 2017, doi:10.1021/jacs.6b10429. PMID: 28134517
36. Petra Pusic, Muralidhar Tata, Michael T. Wolfinger, Elisabeth Sonnleitner, Susanne Häussler, and Udo Bläsi. Cross-regulation by CrcZ RNA controls anoxic biofilm formation in *Pseudomonas aeruginosa*. *Sci. Rep.*, 6(39621), Dec 2016, doi:10.1038/srep39621. PMCID: PMC5175159
37. Mansoured Tajadodd, Andrea Tanzer, Konstantin Licht, Michael T. Wolfinger, Stefan Badelt, Florian Huber, Oliver Pusch, Sandy Schopoff, Ivo L. Hofacker, and Michael F. Jantsch. Transcriptome-wide effects of inverted SINEs on gene expression and their impact on RNA Polymerase II activity. *Genome Biol.*, 17:220, Oct 2016, doi:10.1186/s13059-016-1083-0. PMCID: PMC5080714
38. Martin Hölzer, Verena Krähling, Fabian Amman, Emanuel Barth, Stephan H. Bernhart, Victor Carmelo, Maximilian Collatz, Gero Doose, Florian Eggenhofer, Jan Ewald, Jörg Fallmann, Lasse M. Feldhahn, Markus Fricke, Juliane Gebauer, Andreas J. Gruber, Franziska Hufsky, Henrike Indrischek, Sabina Kanton, Jörg Linde, Nelly Mostajo, Roman Ochsenreiter, Konstantin Riege, Lorena Rivarola-Duarte, Abdullah H. Sahyoun, Sita J. Saunders, Stefan E. Seemann, Andrea Tanzer, Bertram Vogel, Stefanie Wehner, Michael T. Wolfinger, Rolf Backofen, Jan Gorodkin, Ivo Grosse, Ivo L. Hofacker, Steve Hoffmann, Christoph Kaleta, Peter F. Stadler, Stephan Becker, and Manja Marz. Differential transcriptional responses to Ebola and Marburg virus infection in bat and human cells. *Sci. Rep.*, 6(34589), Oct 2016, doi:10.1038/srep34589. PMCID: PMC5054393

39. Martina Sauert, Michael T. Wolfinger, Oliver Vesper, Christian Müller, Konstantin Byrgazov, and Isabella Moll. The MazF-regulon: A toolbox for the post-transcriptional stress response in *Escherichia coli*. *Nucleic Acids Res.*, 44(14):6660–6675, Aug 2016, doi:10.1093/nar/gkw115. PMCID: PMC5001579
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41. Muralidhar Tata, Michael T. Wolfinger, Fabian Amman, Nicole Roschanski, Andreas Dötsch, Elisabeth Sonnleitner, Susanne Häussler, and Udo Bläsi. RNA-Seq based transcriptional profiling of *Pseudomonas aeruginosa* PA14 after short- and long-term anoxic cultivation in synthetic cystic fibrosis sputum medium. *PLoS ONE*, 11(1):e0147811, Jan 2016, doi:10.1371/journal.pone.0147811. PMCID: PMC4731081
42. Ronny Lorenz, Dominik Luntzer, Ivo L. Hofacker, Peter F. Stadler, and Michael T. Wolfinger. SHAPE directed RNA folding. *Bioinformatics*, 32:145–147, Jan 2016, doi:10.1093/bioinformatics/btv523. PMCID: PMC4681990
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51. Christoph Flamm, Ivo L. Hofacker, Peter F. Stadler, and Michael T. Wolfinger. Barrier trees of degenerate landscapes. *Z. Phys. Chem.*, 216:155–173, Jan 2002, doi:10.1524/zpch.2002.216.2.155

C) Refereed Conference Papers

52. Dominik Scheuer, Frederic Runge, Jörg K.H. Franke, Michael T. Wolfinger, Christoph Flamm, and Frank Hutter. Bayesian approximation of RNA folding times. In *ICLR 2025 Workshop on AI for Nucleic Acids*, Mar 2025. doi:10.5281/zenodo.15228717
53. Dominik Scheuer, Frederic Runge, Jörg K. H. Franke, Michael T. Wolfinger, Christoph Flamm, and Frank Hutter. KinPFN: Bayesian approximation of RNA folding kinetics using prior-data fitted networks. In *The Thirteenth International Conference on Learning Representations (ICLR 2025)*, Jan 2025. doi:10.5281/zenodo.15233965
54. Maria Waldl, Sebastian Will, Michael T. Wolfinger, Ivo L. Hofacker, and Peter F. Stadler. Bi-alignments as Models of Incongruent Evolution of RNA Sequence and Secondary Structure. In Paolo Cazzaniga, Daniela Besozzi, Ivan Merelli, and Luca Manzoni, editors, *Computational Intelligence Methods for Bioinformatics and Biostatistics*, pages 159–170. Springer International Publishing, Dec 2020. doi:10.1007/978-3-030-63061-4_15

55. Sebastian Pötzsch, Gerik Scheuermann, Peter F. Stadler, Michael T. Wolfinger, and Christoph Flamm. Visualization of lattice-based protein folding simulations. In *Tenth International Conference on Information Visualisation (IV'06)*, pages 89–94, Washington, DC, USA, Jul 2006. IEEE Computer Society. doi:10.1109/IV.2006.127

D) Refereed Conference Abstracts

56. Darren Gemmill, Higor S. Pereira, Maulik Badamalia, Corey Nelson, Michael T. Wolfinger, and Trushar R. Patel. Identification and characterisation of G-quadruplexes from viral genomes. *Biophysical J.*, 122(3):444a, Feb 2023, doi:10.1016/j.bpj.2022.11.2395
57. Sean M. Park, Tyler Mrozowich, Michael T. Wolfinger, and Trushar R. Patel. Investigating Japanese encephalitis virus long-range terminal region interactions. *Biophys. J.*, 121(3):206A, Feb 2022, doi:10.1016/j.bpj.2021.11.1703
58. Tyler Mrozowich, Sean M. Park, Michael T. Wolfinger, and Trushar R. Patel. Investigating flaviviral genomic cyclization. *Biophysical J.*, 121(3):311a, Feb 2022, doi:10.1016/j.bpj.2021.11.1203
59. Adriano de Bernardi Schneider and Michael T. Wolfinger. The role of arbovirus genome untranslated regions on neurotropism. *Int. J. Infect. Dis.*, 79:142, Feb 2019, doi:10.1016/j.ijid.2018.11.347

E) Book Chapters

60. Michael T. Wolfinger, Roman Ochsenreiter, and Ivo L. Hofacker. Functional RNA Structures in the 3'UTR of Mosquito-Borne Flaviviruses. In Dmitrij Frishman and Manja Marz, editors, *Virus Bioinformatics*, pages 65–100. Chapman and Hall/CRC Press, 2021

F) Outreach Articles

61. Adriano de Bernardi Schneider and Michael T. Wolfinger. Preventing disease outbreaks with computational biology, how far can we go? *NCT CBNW Newsletter*, 58, Jun 2018, doi:10.5281/zenodo.1463018

G) Theses

62. Michael T. Wolfinger. *Energy Landscapes of Biopolymers*. PhD thesis, Universität Wien, Oct 2004
63. Michael T. Wolfinger. The Energy Landscape of RNA Folding. Master's thesis, Universität Wien, Mar 2001