

Peter F F Stadler

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

654
papers

43,000
citations

88
h-index

196
g-index

732
ext. papers

51,467
ext. citations

5.5
avg, IF

7.85
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 654 | Synthetic Riboswitches for the Analysis of tRNA Processing by eukaryotic RNase P Enzymes.. <i>Rna</i> , 2022 , | 5.8 | 3 |
| 653 | Evolution of DNA Methylation Across Ecdysozoa.. <i>Journal of Molecular Evolution</i> , 2022 , 90, 56 | 3.1 | 0 |
| 652 | Chromosome-level <i>Thlaspi arvense</i> genome provides new tools for translational research and for a newly domesticated cash cover crop of the cooler climates.. <i>Plant Biotechnology Journal</i> , 2022 , | 11.6 | 2 |
| 651 | PredicTF: prediction of bacterial transcription factors in complex microbial communities using deep learning.. <i>Environmental Microbiomes</i> , 2022 , 17, 7 | 5.6 | 0 |
| 650 | From modular decomposition trees to rooted median graphs. <i>Discrete Applied Mathematics</i> , 2022 , 310, 1-9 | 1 | 1 |
| 649 | Evolution and Phylogeny of MicroRNAs - Protocols, Pitfalls, and Problems. <i>Methods in Molecular Biology</i> , 2022 , 2257, 211-233 | 1.4 | |
| 648 | 44 Current Challenges in miRNomics. <i>Methods in Molecular Biology</i> , 2022 , 2257, 423-438 | 1.4 | 4 |
| 647 | Small integral membrane protein 10 like 1 enhances differentiation of adipose progenitor cells.. <i>Biochemical and Biophysical Research Communications</i> , 2022 , 604, 57-62 | 3.4 | |
| 646 | Compatibility of partitions with trees, hierarchies, and split systems. <i>Discrete Applied Mathematics</i> , 2022 , 314, 265-283 | 1 | 2 |
| 645 | Cas1 and Fen1 Display Equivalent Functions During Archaeal DNA Repair.. <i>Frontiers in Microbiology</i> , 2022 , 13, 822304 | 5.7 | 0 |
| 644 | The genomic and transcriptional landscape of primary central nervous system lymphoma.. <i>Nature Communications</i> , 2022 , 13, 2558 | 17.4 | 4 |
| 643 | Bi-alignments with affine gaps costs.. <i>Algorithms for Molecular Biology</i> , 2022 , 17, 10 | 1.8 | |
| 642 | Kosteneffektive hybride Genomassemblierung mit LazyB. <i>BioSpektrum</i> , 2022 , 28, 283-286 | 0.1 | |
| 641 | Complete edge-colored permutation graphs. <i>Advances in Applied Mathematics</i> , 2022 , 139, 102377 | 0.8 | 0 |
| 640 | RNA Design Principles for Riboswitches that Regulate RNase P-Mediated tRNA Processing. <i>Methods in Molecular Biology</i> , 2022 , 179-202 | 1.4 | 0 |
| 639 | cyPhyRNA-seq: a genome-scale RNA-seq method to detect active self-cleaving ribozymes by capturing RNAs with 2',3' clic hosphates and 5' droxyl ends.. <i>RNA Biology</i> , 2021 , 18, 818-831 | 4.8 | 3 |
| 638 | A simpler linear-time algorithm for the common refinement of rooted phylogenetic trees on a common leaf set. <i>Algorithms for Molecular Biology</i> , 2021 , 16, 23 | 1.8 | 2 |

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| 637 | Combining Orthology and Xenology Data in a Common Phylogenetic Tree. <i>Lecture Notes in Computer Science</i> , 2021 , 53-64 | 0.9 | 1 |
| 636 | Efficient Laplacian spectral density computations for networks with arbitrary degree distributions. <i>Network Science</i> , 2021 , 9, 312-327 | 2.9 | 0 |
| 635 | Disturbance of phylogenetic layer-specific adaptation of human brain gene expression in Alzheimer's disease. <i>Scientific Reports</i> , 2021 , 11, 20200 | 4.9 | |
| 634 | Compositional Properties of Alignments. <i>Mathematics in Computer Science</i> , 2021 , 15, 609 | 0.5 | 2 |
| 633 | Arc-Completion of 2-Colored Best Match Graphs to Binary-Explainable Best Match Graphs. <i>Algorithms</i> , 2021 , 14, 110 | 1.8 | 1 |
| 632 | Lifestyle weight-loss intervention may attenuate methylation aging: the CENTRAL MRI randomized controlled trial. <i>Clinical Epigenetics</i> , 2021 , 13, 48 | 7.7 | 2 |
| 631 | Complexity of modification problems for best match graphs. <i>Theoretical Computer Science</i> , 2021 , 865, 63-84 | 1.1 | 5 |
| 630 | A workflow to identify novel proteins based on the direct mapping of peptide-spectrum-matches to genomic locations. <i>BMC Bioinformatics</i> , 2021 , 22, 277 | 3.6 | 2 |
| 629 | Effects of lifestyle interventions on epigenetic signatures of liver fat: Central randomized controlled trial. <i>Liver International</i> , 2021 , 41, 2101-2111 | 7.9 | 3 |
| 628 | Mutational mechanisms shaping the coding and noncoding genome of germinal center derived B-cell lymphomas. <i>Leukemia</i> , 2021 , 35, 2002-2016 | 10.7 | 3 |
| 627 | LazyB: fast and cheap genome assembly. <i>Algorithms for Molecular Biology</i> , 2021 , 16, 8 | 1.8 | 0 |
| 626 | Alignments of biomolecular contact maps. <i>Interface Focus</i> , 2021 , 11, 20200066 | 3.9 | 2 |
| 625 | Superbubbles as an empirical characteristic of directed networks. <i>Network Science</i> , 2021 , 9, 49-58 | 2.9 | |
| 624 | Proteomics reveals sex-specific heat shock response of Baikal amphipod <i>Eulimnogammarus cyaneus</i> . <i>Science of the Total Environment</i> , 2021 , 763, 143008 | 10.2 | 0 |
| 623 | HumanMetagenomeDB: a public repository of curated and standardized metadata for human metagenomes. <i>Nucleic Acids Research</i> , 2021 , 49, D743-D750 | 20.1 | 4 |
| 622 | Beyond Plug and Pray: Context Sensitivity and Design of Artificial Neomycin Riboswitches. <i>RNA Biology</i> , 2021 , 18, 457-467 | 4.8 | 2 |
| 621 | MCPIP1 ribonuclease can bind and cleave mRNA in -amplified neuroblastoma cells. <i>RNA Biology</i> , 2021 , 18, 144-156 | 4.8 | 4 |
| 620 | Efficient Algorithms for Co-folding of Multiple RNAs. <i>Communications in Computer and Information Science</i> , 2021 , 193-214 | 0.3 | |

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| 619 | Cut Vertex Transit Functions of Hypergraphs. <i>Lecture Notes in Computer Science</i> , 2021 , 222-233 | 0.9 | |
| 618 | Ligand-dependent tRNA processing by a rationally designed RNase P riboswitch. <i>Nucleic Acids Research</i> , 2021 , 49, 1784-1800 | 20.1 | 4 |
| 617 | Best Match Graphs with Binary Trees. <i>Lecture Notes in Computer Science</i> , 2021 , 82-93 | 0.9 | 1 |
| 616 | Comprehensive benchmarking of software for mapping whole genome bisulfite data: from read alignment to DNA methylation analysis. <i>Briefings in Bioinformatics</i> , 2021 , 22, | 13.4 | 3 |
| 615 | Thermal reaction norms of key metabolic enzymes reflect divergent physiological and behavioral adaptations of closely related amphipod species. <i>Scientific Reports</i> , 2021 , 11, 4562 | 4.9 | 4 |
| 614 | Weighted Consensus Segmentations. <i>Computation</i> , 2021 , 9, 17 | 2.2 | |
| 613 | Complete Characterization of Incorrect Orthology Assignments in Best Match Graphs. <i>Journal of Mathematical Biology</i> , 2021 , 82, 20 | 2 | 6 |
| 612 | Human pathways in animal models: possibilities and limitations. <i>Nucleic Acids Research</i> , 2021 , 49, 1859-1871 | 11 | 7 |
| 611 | Indirect identification of horizontal gene transfer. <i>Journal of Mathematical Biology</i> , 2021 , 83, 10 | 2 | 0 |
| 610 | PTEN regulates adipose progenitor cell growth, differentiation, and replicative aging. <i>Journal of Biological Chemistry</i> , 2021 , 297, 100968 | 5.4 | 1 |
| 609 | Heuristic algorithms for best match graph editing. <i>Algorithms for Molecular Biology</i> , 2021 , 16, 19 | 1.8 | |
| 608 | Different ways to play it cool: Transcriptomic analysis sheds light on different activity patterns of three amphipod species under long-term cold exposure. <i>Molecular Ecology</i> , 2021 , 30, 5735-5751 | 5.7 | 0 |
| 607 | EpiDiverse Toolkit: a pipeline suite for the analysis of bisulfite sequencing data in ecological plant epigenetics. <i>NAR Genomics and Bioinformatics</i> , 2021 , 3, lqab106 | 3.7 | 0 |
| 606 | Are spliced ncRNA host genes distinct classes of lncRNAs?. <i>Theory in Biosciences</i> , 2020 , 139, 349-359 | 1.3 | 0 |
| 605 | Intronic tRNAs of mitochondrial origin regulate constitutive and alternative splicing. <i>Genome Biology</i> , 2020 , 21, 299 | 18.3 | 2 |
| 604 | A probabilistic version of Sankoff's maximum parsimony algorithm. <i>Journal of Bioinformatics and Computational Biology</i> , 2020 , 18, 2050004 | 1 | 1 |
| 603 | Best match graphs and reconciliation of gene trees with species trees. <i>Journal of Mathematical Biology</i> , 2020 , 80, 1459-1495 | 2 | 9 |
| 602 | Alzheimer-related genes show accelerated evolution. <i>Molecular Psychiatry</i> , 2020 , | 15.1 | 1 |

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| 601 | A guide to naming human non-coding RNA genes. <i>EMBO Journal</i> , 2020 , 39, e103777 | 13 | 39 |
| 600 | Distinct abdominal and gluteal adipose tissue transcriptome signatures are altered by exercise training in African women with obesity. <i>Scientific Reports</i> , 2020 , 10, 10240 | 4.9 | 7 |
| 599 | Generalized Fitch graphs II: Sets of binary relations that are explained by edge-labeled trees. <i>Discrete Applied Mathematics</i> , 2020 , 283, 495-511 | 1 | 3 |
| 598 | Master and servant: LINC00152 - a STAT3-induced long noncoding RNA regulates STAT3 in a positive feedback in human multiple myeloma. <i>BMC Medical Genomics</i> , 2020 , 13, 22 | 3.7 | 7 |
| 597 | Identification of RNA 3' ends and termination sites in. <i>RNA Biology</i> , 2020 , 17, 663-676 | 4.8 | 8 |
| 596 | Pan-cancer analysis of whole genomes. <i>Nature</i> , 2020 , 578, 82-93 | 50.4 | 840 |
| 595 | TerrestrialMetagenomeDB: a public repository of curated and standardized metadata for terrestrial metagenomes. <i>Nucleic Acids Research</i> , 2020 , 48, D626-D632 | 20.1 | 4 |
| 594 | Computational Simulations for Cyclizations Catalyzed by Plant Monoterpene Synthases. <i>Lecture Notes in Computer Science</i> , 2020 , 247-258 | 0.9 | |
| 593 | Anti-CD3 Stimulated T Cell Transcriptome Reveals Novel ncRNAs and Correlates with a Suppressive Profile. <i>Lecture Notes in Computer Science</i> , 2020 , 180-191 | 0.9 | |
| 592 | Cograph editing: Merging modules is equivalent to editing P ₄ s. <i>Art of Discrete and Applied Mathematics</i> , 2020 , 3, #P2.01 | 1.5 | 2 |
| 591 | RNA Secondary Structures with Limited Base Pair Span: Exact Backtracking and an Application. <i>Genes</i> , 2020 , 12, | 4.2 | 2 |
| 590 | Bi-alignments as Models of Incongruent Evolution of RNA Sequence and Secondary Structure. <i>Lecture Notes in Computer Science</i> , 2020 , 159-170 | 0.9 | 1 |
| 589 | LOTTE-seq (Long hairpin oligonucleotide based tRNA high-throughput sequencing): specific selection of tRNAs with 3'-CCA end for high-throughput sequencing. <i>RNA Biology</i> , 2020 , 17, 23-32 | 4.8 | 7 |
| 588 | Reciprocal best match graphs. <i>Journal of Mathematical Biology</i> , 2020 , 80, 865-953 | 2 | 9 |
| 587 | Transcriptome-level effects of the model organic pollutant phenanthrene and its solvent acetone in three amphipod species. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2020 , 33, 100630 | 2 | 1 |
| 586 | Complexity of modification problems for reciprocal best match graphs. <i>Theoretical Computer Science</i> , 2020 , 809, 384-393 | 1.1 | 4 |
| 585 | Enrichment and identification of small proteins in a simplified human gut microbiome. <i>Journal of Proteomics</i> , 2020 , 213, 103604 | 3.9 | 19 |
| 584 | DNA methylation signature in blood mirrors successful weight-loss during lifestyle interventions: the CENTRAL trial. <i>Genome Medicine</i> , 2020 , 12, 97 | 14.4 | 9 |

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| 583 | Unusual Occurrence of Two Bona-Fide CCA-Adding Enzymes in. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 3 |
| 582 | Exact-2-relation graphs. <i>Discrete Applied Mathematics</i> , 2020 , 285, 212-226 | 1 | 2 |
| 581 | Convexity Deficit of Benzenoids. <i>Croatica Chemica Acta</i> , 2020 , 92, 457-466 | 0.8 | 2 |
| 580 | Clustering Improves the Goemans-Williamson Approximation for the Max-Cut Problem. <i>Computation</i> , 2020 , 8, 75 | 2.2 | |
| 579 | Splicing Endonuclease Is an Important Player in rRNA and tRNA Maturation in Archaea. <i>Frontiers in Microbiology</i> , 2020 , 11, 594838 | 5.7 | 3 |
| 578 | Street Name Data as a Reflection of Migration and Settlement History. <i>Urban Science</i> , 2020 , 4, 74 | 2.2 | |
| 577 | Average Fitness Differences on NK Landscapes. <i>Theory in Biosciences</i> , 2020 , 139, 1-7 | 1.3 | 3 |
| 576 | Transit sets of ρ -point crossover operators. <i>AKCE International Journal of Graphs and Combinatorics</i> , 2020 , 17, 519-533 | 0.5 | |
| 575 | From pairs of most similar sequences to phylogenetic best matches. <i>Algorithms for Molecular Biology</i> , 2020 , 15, 5 | 1.8 | 8 |
| 574 | Splicing conservation signals in plant long noncoding RNAs. <i>Rna</i> , 2020 , 26, 784-793 | 5.8 | 7 |
| 573 | Developmentally Driven Changes in Adipogenesis in Different Fat Depots Are Related to Obesity. <i>Frontiers in Endocrinology</i> , 2020 , 11, 138 | 5.7 | 4 |
| 572 | DREAM and RB cooperate to induce gene repression and cell-cycle arrest in response to p53 activation. <i>Nucleic Acids Research</i> , 2019 , 47, 9087-9103 | 20.1 | 32 |
| 571 | A streamlined protocol for the detection of mRNA-sRNA interactions using AMT-crosslinking. <i>BioTechniques</i> , 2019 , 67, 178-183 | 2.5 | 3 |
| 570 | Comparison between transcriptomic responses to short-term stress exposures of a common Holarctic and endemic Lake Baikal amphipods. <i>BMC Genomics</i> , 2019 , 20, 712 | 4.5 | 10 |
| 569 | Description of strongly heat-inducible heat shock protein 70 transcripts from Baikal endemic amphipods. <i>Scientific Reports</i> , 2019 , 9, 8907 | 4.9 | 7 |
| 568 | Best match graphs. <i>Journal of Mathematical Biology</i> , 2019 , 78, 2015-2057 | 2 | 14 |
| 567 | Exploration of the chemical space and its three historical regimes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12660-12665 | 11.5 | 37 |
| 566 | Direct Superbubble Detection. <i>Algorithms</i> , 2019 , 12, 81 | 1.8 | 1 |

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|-----|---|------|----|
| 565 | The RNA workbench 2.0: next generation RNA data analysis. <i>Nucleic Acids Research</i> , 2019 , 47, W511-W515.1 | 5.1 | 7 |
| 564 | Exploring Plant Sesquiterpene Diversity by Generating Chemical Networks. <i>Processes</i> , 2019 , 7, 240 | 2.9 | 3 |
| 563 | Big Data Competence Center ScaDS Dresden/Leipzig: Overview and selected research activities. <i>Datenbank-Spektrum</i> , 2019 , 19, 5-16 | 0.6 | 2 |
| 562 | Automatic curation of large comparative animal MicroRNA datasets. <i>Bioinformatics</i> , 2019 , 35, 4553-4559.2 | 7.2 | 2 |
| 561 | RyE network-flow based transcriptome reconstruction. <i>BMC Bioinformatics</i> , 2019 , 20, 190 | 3.6 | 12 |
| 560 | Genomic and transcriptomic changes complement each other in the pathogenesis of sporadic Burkitt lymphoma. <i>Nature Communications</i> , 2019 , 10, 1459 | 17.4 | 49 |
| 559 | SSS-test: a novel test for detecting positive selection on RNA secondary structure. <i>BMC Bioinformatics</i> , 2019 , 20, 151 | 3.6 | 7 |
| 558 | Indication of ongoing amphipod speciation in Lake Baikal by genetic structures within endemic species. <i>BMC Evolutionary Biology</i> , 2019 , 19, 138 | 3 | 4 |
| 557 | Gene expression profile of human T cells following a single stimulation of peripheral blood mononuclear cells with anti-CD3 antibodies. <i>BMC Genomics</i> , 2019 , 20, 593 | 4.5 | 7 |
| 556 | Selection Pressures on RNA Sequences and Structures. <i>Evolutionary Bioinformatics</i> , 2019 , 15, 1176934319371919 | 19.3 | 19 |
| 555 | Improved annotation of protein-coding genes boundaries in metazoan mitochondrial genomes. <i>Nucleic Acids Research</i> , 2019 , 47, 10543-10552 | 20.1 | 70 |
| 554 | Within-Population Genome Size Variation is Mediated by Multiple Genomic Elements That Segregate Independently during Meiosis. <i>Genome Biology and Evolution</i> , 2019 , 11, 3424-3435 | 3.9 | 7 |
| 553 | Genome analyses of a placozoan rickettsial endosymbiont show a combination of mutualistic and parasitic traits. <i>Scientific Reports</i> , 2019 , 9, 17561 | 4.9 | 8 |
| 552 | flowEMMi: an automated model-based clustering tool for microbial cytometric data. <i>BMC Bioinformatics</i> , 2019 , 20, 643 | 3.6 | 10 |
| 551 | RNApuzzler: efficient outerplanar drawing of RNA-secondary structures. <i>Bioinformatics</i> , 2019 , 35, 1342-1349 | 13.4 | 6 |
| 550 | RNAcentral: a hub of information for non-coding RNA sequences. <i>Nucleic Acids Research</i> , 2019 , 47, D221-D229 | 10.2 | 90 |
| 549 | Chemical Transformation Motifs-Modelling Pathways as Integer Hyperflows. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2019 , 16, 510-523 | 3 | 10 |
| 548 | Divergent evolution in the genomes of closely related lacertids, <i>Lacerta viridis</i> and <i>L. bilineata</i> , and implications for speciation. <i>GigaScience</i> , 2019 , 8, | 7.6 | 6 |

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|-----|---|------|----|
| 547 | ceRNAs in plants: computational approaches and associated challenges for target mimic research. <i>Briefings in Bioinformatics</i> , 2018 , 19, 1273-1289 | 13.4 | 13 |
| 546 | In vitro iCLIP-based modeling uncovers how the splicing factor U2AF2 relies on regulation by cofactors. <i>Genome Research</i> , 2018 , 28, 699-713 | 9.7 | 43 |
| 545 | Toward a mechanistic explanation of phenotypic evolution: The need for a theory of theory integration. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2018 , 330, 5-14 | 1.8 | 10 |
| 544 | The fungal snoRNAome. <i>Rna</i> , 2018 , 24, 342-360 | 5.8 | 7 |
| 543 | Gene Phylogenies and Orthologous Groups. <i>Methods in Molecular Biology</i> , 2018 , 1704, 1-28 | 1.4 | 5 |
| 542 | Comparative RNA Genomics. <i>Methods in Molecular Biology</i> , 2018 , 1704, 363-400 | 1.4 | 5 |
| 541 | Expansion of gene clusters, circular orders, and the shortest Hamiltonian path problem. <i>Journal of Mathematical Biology</i> , 2018 , 77, 313-341 | 2 | 1 |
| 540 | Accurate mapping of tRNA reads. <i>Bioinformatics</i> , 2018 , 34, 1116-1124 | 7.2 | 18 |
| 539 | Tracing the evolution of the heterotrimeric G protein β subunit in Metazoa. <i>BMC Evolutionary Biology</i> , 2018 , 18, 51 | 3 | 6 |
| 538 | Finding the K best synthesis plans. <i>Journal of Cheminformatics</i> , 2018 , 10, 19 | 8.6 | 5 |
| 537 | Partially Local Multi-way Alignments. <i>Mathematics in Computer Science</i> , 2018 , 12, 207-234 | 0.5 | 4 |
| 536 | The Sierra Platinum Service for generating peak-calls for replicated ChIP-seq experiments. <i>BMC Research Notes</i> , 2018 , 11, 512 | 2.3 | 2 |
| 535 | TERribly Difficult: Searching for Telomerase RNAs in Saccharomycetes. <i>Genes</i> , 2018 , 9, | 4.2 | 8 |
| 534 | Nonprotein-Coding RNAs as Regulators of Development in Tunicates. <i>Results and Problems in Cell Differentiation</i> , 2018 , 65, 197-225 | 1.4 | 1 |
| 533 | Cover-Encodings of Fitness Landscapes. <i>Bulletin of Mathematical Biology</i> , 2018 , 80, 2154-2176 | 2.1 | |
| 532 | Time-consistent reconciliation maps and forbidden time travel. <i>Algorithms for Molecular Biology</i> , 2018 , 13, 2 | 1.8 | 7 |
| 531 | Trichoplax genomes reveal profound admixture and suggest stable wild populations without bisexual reproduction. <i>Scientific Reports</i> , 2018 , 8, 11168 | 4.9 | 22 |
| 530 | Beyond the 3'UTR binding-microRNA-induced protein truncation via DNA binding. <i>Oncotarget</i> , 2018 , 9, 32855-32867 | 3.3 | 8 |

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|-----|---|------|----|
| 529 | A short note on undirected Fitch graphs. <i>Art of Discrete and Applied Mathematics</i> , 2018 , 1, #1.08 | 1.5 | 5 |
| 528 | Temporal ordering of substitutions in RNA evolution: Uncovering the structural evolution of the Human Accelerated Region 1. <i>Journal of Theoretical Biology</i> , 2018 , 438, 143-150 | 2.3 | 7 |
| 527 | Detailed secondary structure models of invertebrate 7SK RNAs. <i>RNA Biology</i> , 2018 , 15, 158-164 | 4.8 | 8 |
| 526 | Inferring phylogenetic trees from the knowledge of rare evolutionary events. <i>Journal of Mathematical Biology</i> , 2018 , 76, 1623-1653 | 2 | 5 |
| 525 | Identification and characterization of novel conserved RNA structures in Drosophila. <i>BMC Genomics</i> , 2018 , 19, 899 | 4.5 | 3 |
| 524 | Superbubbles revisited. <i>Algorithms for Molecular Biology</i> , 2018 , 13, 16 | 1.8 | 3 |
| 523 | Split-inducing indels in phylogenomic analysis. <i>Algorithms for Molecular Biology</i> , 2018 , 13, 12 | 1.8 | 10 |
| 522 | Patterning the insect eye: From stochastic to deterministic mechanisms. <i>PLoS Computational Biology</i> , 2018 , 14, e1006363 | 5 | 5 |
| 521 | Combined Experimental and System-Level Analyses Reveal the Complex Regulatory Network of miR-124 during Human Neurogenesis. <i>Cell Systems</i> , 2018 , 7, 438-452.e8 | 10.6 | 25 |
| 520 | Coordinate systems for supergenomes. <i>Algorithms for Molecular Biology</i> , 2018 , 13, 15 | 1.8 | 8 |
| 519 | Noncoding RNA Transcripts during Differentiation of Induced Pluripotent Stem Cells into Hepatocytes. <i>Stem Cells International</i> , 2018 , 2018, 5692840 | 5 | 3 |
| 518 | Reconstructing gene trees from Fitch's xenology relation. <i>Journal of Mathematical Biology</i> , 2018 , 77, 1459-1491 | 2 | 15 |
| 517 | Moderate weather extremes alter phytoplankton diversity: A microcosm study. <i>Freshwater Biology</i> , 2018 , 63, 1211-1224 | 3.1 | 11 |
| 516 | Studying language evolution in the age of big data. <i>Journal of Language Evolution</i> , 2018 , 3, 94-129 | 1.4 | 4 |
| 515 | Phylogenetics beyond biology. <i>Theory in Biosciences</i> , 2018 , 137, 133-143 | 1.3 | 3 |
| 514 | The complete mitochondrial genome of <i>Lacerta bilineata</i> and comparison with its closely related congener <i>L. viridis</i> . <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2017 , 28, 116-118 | 1.3 | 5 |
| 513 | Towards a Consistent, Quantitative Evaluation of MicroRNA Evolution. <i>Journal of Integrative Bioinformatics</i> , 2017 , 14, | 3.8 | 2 |
| 512 | The RNA workbench: best practices for RNA and high-throughput sequencing bioinformatics in Galaxy. <i>Nucleic Acids Research</i> , 2017 , 45, W560-W566 | 20.1 | 33 |

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|-----|--|------|-----|
| 511 | RNA-bioinformatics: Tools, services and databases for the analysis of RNA-based regulation. <i>Journal of Biotechnology</i> , 2017 , 261, 76-84 | 3.7 | 17 |
| 510 | The mathematics of xenology: di-cographs, symbolic ultrametrics, 2-structures and tree-representable systems of binary relations. <i>Journal of Mathematical Biology</i> , 2017 , 75, 199-237 | 2 | 22 |
| 509 | Keeping it complicated: Mitochondrial genome plasticity across diplomids. <i>Scientific Reports</i> , 2017 , 7, 14166 | 4.9 | 14 |
| 508 | Similarity-Based Segmentation of Multi-Dimensional Signals. <i>Scientific Reports</i> , 2017 , 7, 12355 | 4.9 | 5 |
| 507 | Ecological plant epigenetics: Evidence from model and non-model species, and the way forward. <i>Ecology Letters</i> , 2017 , 20, 1576-1590 | 10 | 165 |
| 506 | Rsearch2: suffix array-based large-scale prediction of RNA-RNA interactions and siRNA off-targets. <i>Nucleic Acids Research</i> , 2017 , 45, e60 | 20.1 | 41 |
| 505 | Uncovering missing pieces: duplication and deletion history of arrestins in deuterostomes. <i>BMC Evolutionary Biology</i> , 2017 , 17, 163 | 3 | 27 |
| 504 | Partially local three-way alignments and the sequence signatures of mitochondrial genome rearrangements. <i>Algorithms for Molecular Biology</i> , 2017 , 12, 22 | 1.8 | 5 |
| 503 | Tractable RNA-ligand interaction kinetics. <i>BMC Bioinformatics</i> , 2017 , 18, 424 | 3.6 | 8 |
| 502 | SMORE: Synteny Modulator of Repetitive Elements. <i>Life</i> , 2017 , 7, | 3 | 1 |
| 501 | STAT3-induced long noncoding RNAs in multiple myeloma cells display different properties in cancer. <i>Scientific Reports</i> , 2017 , 7, 7976 | 4.9 | 24 |
| 500 | An intermediate level of abstraction for computational systems chemistry. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375, | 3 | 5 |
| 499 | Recent advances in RNA folding. <i>Journal of Biotechnology</i> , 2017 , 261, 97-104 | 3.7 | 38 |
| 498 | Do genome size differences within (Rotifera, Monogononta) cause reproductive barriers among geographic populations?. <i>Hydrobiologia</i> , 2017 , 796, 59-75 | 2.4 | 10 |
| 497 | Accurate annotation of protein-coding genes in mitochondrial genomes. <i>Molecular Phylogenetics and Evolution</i> , 2017 , 106, 209-216 | 4.1 | 13 |
| 496 | Evolutionary clues in lncRNAs. <i>Wiley Interdisciplinary Reviews RNA</i> , 2017 , 8, e1376 | 9.3 | 36 |
| 495 | RNAcentral: a comprehensive database of non-coding RNA sequences. <i>Nucleic Acids Research</i> , 2017 , 45, D128-D134 | 20.1 | 119 |
| 494 | Evolution of Fungal U3 snoRNAs: Structural Variation and Introns. <i>Non-coding RNA</i> , 2017 , 3, | 7.1 | 1 |

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|-----|---|------|-----|
| 493 | Rare Splice Variants in Long Non-Coding RNAs. <i>Non-coding RNA</i> , 2017 , 3, | 7.1 | 5 |
| 492 | Design of Artificial Riboswitches as Biosensors. <i>Sensors</i> , 2017 , 17, | 3.8 | 38 |
| 491 | A Support Vector Machine based method to distinguish long non-coding RNAs from protein coding transcripts. <i>BMC Genomics</i> , 2017 , 18, 804 | 4.5 | 31 |
| 490 | Algebraic Dynamic Programming on Trees. <i>Algorithms</i> , 2017 , 10, 135 | 1.8 | 3 |
| 489 | Chemical Graph Transformation with Stereo-Information. <i>Lecture Notes in Computer Science</i> , 2017 , 54-69. | 0.9 | 3 |
| 488 | Applicability of a computational design approach for synthetic riboswitches. <i>Nucleic Acids Research</i> , 2017 , 45, 4108-4119 | 20.1 | 37 |
| 487 | Pseudoknots in RNA folding landscapes. <i>Bioinformatics</i> , 2016 , 32, 187-94 | 7.2 | 12 |
| 486 | Evolution of RNA-Based Networks. <i>Current Topics in Microbiology and Immunology</i> , 2016 , 392, 43-59 | 3.3 | 8 |
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| 6 | Identification of RNA 3' ends and termination sites in <i>Haloferax volcanii</i> | 1 |
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| 1 | Time-Consistent Reconciliation Maps and Forbidden Time Travel | 1 |