

List of publications

Siavash Mirarab

July 31, 2020

1. Chao Zhang, Celine Scornavacca, Erin Molloy, and **Siavash Mirarab**. ASTRAL-Pro: quartet-based species tree inference despite paralogy. *Molecular Biology and Evolution*, [in press](#), 2020.
2. Kristine Bohmann, **Siavash Mirarab**, Vineet Bafna, and M. Thomas P. Gilbert. Beyond DNA barcoding: The unrealized potential of genome skim data in sample identification. *Molecular Ecology*, [mec.15507](#), 2020.
3. Metin Balaban and **Siavash Mirarab**. Phylogenetic double placement of mixed samples. *Bioinformatics*, [36\(Supplement_1\):i335–i343](#), 2020.
4. Ekin Tilic, Erfan Sayyari, Josefin Stiller, **Siavash Mirarab**, and Greg W Rouse. More is neededThousands of loci are required to elucidate the relationships of the flowers of the sea’ (Sabellida, Annelida). *Molecular Phylogenetics and Evolution*, [151:106892](#), 2020.
5. Francesco Asnicar, Andrew Maltez Thomas, Francesco Beghini, Claudia Mengoni, Serena Manara, Paolo Manghi, Qiyun Zhu, Mattia Bolzan, Fabio Cumbo, Uyen May, Jon G Sanders, Moreno Zolfo, Evguenia Kopylova, Edoardo Pasolli, Rob Knight, **Siavash Mirarab**, Curtis Huttenhower, and Nicola Segata. Precise phylogenetic analysis of microbial isolates and genomes from metagenomes using PhyloPhlAn 3.0. *Nature Communications*, [11\(1\):2500](#), 2020.
6. Eleonora Rachtman, Metin Balaban, Vineet Bafna, and **Siavash Mirarab**. The impact of contaminants on the accuracy of genome skimming and the effectiveness of exclusion read filters. *Molecular Ecology Resources*, [1755–0998.13135](#), 2020.

7. Metin Balaban, Shahab Sarmashghi, and **Siavash Mirarab**. APPLES: Scalable Distance-Based Phylogenetic Placement with or without Alignments. *Systematic Biology*, [69\(3\):566–578](#), 2020.
8. Maryam Rabiee and **Siavash Mirarab**. INSTRAL: Discordance-Aware Phylogenetic Placement Using Quartet Scores. *Systematic Biology*, [69\(2\):384–391](#), 2020.
9. Maryam Rabiee and **Siavash Mirarab**. Forcing external constraints on tree inference using ASTRAL. *BMC Genomics*, [21\(S2\):218](#), 2020.
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12. Erfan Sayyari, Ban Kavas, and **Siavash Mirarab**. TADA: phylogenetic augmentation of microbiome samples enhances phenotype classification. *Bioinformatics (ISMB special issue)*, [35\(14\):i31–i40](#), 2019.
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*co-first author

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 27. Erfan Sayyari, James B. Whitfield, and **Siavash Mirarab**. DiscoVista: Interpretable visualizations of gene tree discordance. *Molecular Phylogenetics and Evolution*, [122:110–115](#), 2018.
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[†]co-first author

[‡]co-first author

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