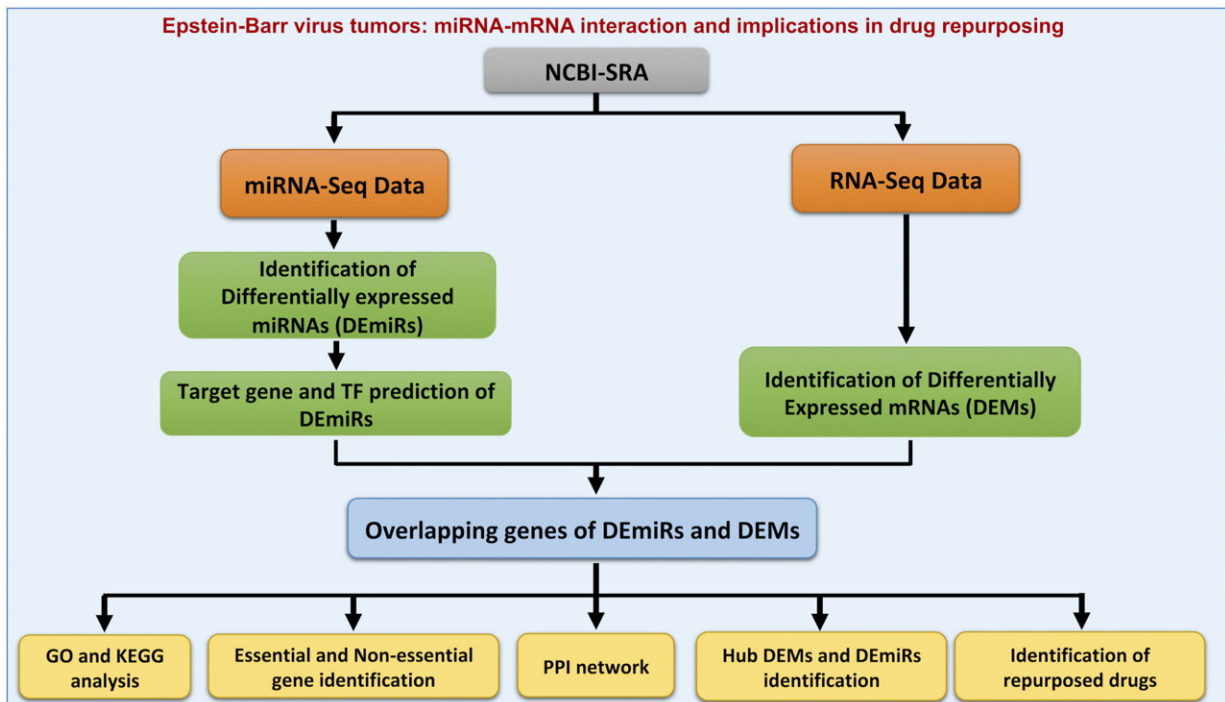


Epstein-Barr virus associated tumors and drug repurposing

March 27 2023, by Kathryn Ryan



Detailed summary of miRNA-Seq and RNA-Seq analysis for EBV-associated tumors. EBV, Epstein-Barr virus. Credit: *OMICS: A Journal of Integrative Biology* (2023). DOI: 10.1089/omi.2023.0005

A new study published in *OMICS: A Journal of Integrative Biology* identified differentially expressed host and viral microRNAs (miRNAs) in six Epstein-Barr virus (EBV) associated tumors. The study reports several drug candidates for repurposing and targeting EBV latent

infection: Glyburide, Levodopa, Nateglinide, and Stiripentol, among others.

The authors, Anamika Thakur and Manoj Kumar, Ph.D., from the Institute of Microbial Technology, Council of Scientific and Industrial Research (CSIR), Chandigarh, India, note: "This is the first integrative analysis, to the best of our knowledge, in regard to the potential therapeutic targets and drug repurposing candidates against the EBV tumors." EBV is associated with several types of malignancies, such as gastric carcinoma, Burkitt lymphoma, nasopharyngeal carcinoma, and Hodgkin's lymphoma.

"Epstein-Barr virus is a major planetary health burden especially in the oncology clinic. The study makes a contribution toward antiviral drug innovation for treatment of EBV infection and prevention of EBV-related tumors," says Vural Özdemir, MD, Ph.D., DABCP, Editor-in-Chief of *OMICS*.

More information: Anamika Thakur et al, Integration of Human and Viral miRNAs in Epstein-Barr Virus-Associated Tumors and Implications for Drug Repurposing, *OMICS: A Journal of Integrative Biology* (2023). [DOI: 10.1089/omi.2023.0005](https://doi.org/10.1089/omi.2023.0005)

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