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DrBioRight, a natural language-oriented and artificial intelligence-driven analytics platform

High-throughput molecular profiling technologies have generated a tremendous amount of data and revolutionized biomedical research. The data surge presents a major challenge for researchers, especially those with little bioinformatics expertise, to obtain meaningful insights. Despite impressive progress in the development of user-friendly tools, packages, and platforms for easy data exploration, users still spend considerable time identifying appropriate tools and learning how to use them. In general, bioinformatics analysis is time-consuming and suffers from a lack of transparency and consistency. We hypothesize that most of the commonly used standard analyses of omics data can be conducted effectively by natural languages. So we have developed DrBioRight, a first natural language-oriented and artificial intelligence (AI)-driven analytics platform that allows users to explore and analyze omics data intuitively and efficiently. DrBioRight employs a simple online chat interface and interacts with users through human languages directly. We are improving the AI core ability of DrBioRight to make it smarter and more powerful.