

*October 2022 Editorial***Promoting Innovation, Diversity, and Equality in Student Research through Free and Open-Access Journals****Justin J. Huang****Editor-in-Chief, Journal of Innovative Student Research**

The Open Access Journal of Innovative Student Research (JISR) aims to promote research among aspiring students and publish underrepresented student research in open access and free format worldwide. It is a student-led, student-focused, FREE, peer-reviewed open access journal that publishes original research articles, review articles, and case reports on various subjects. The journal's editorial board and table of contents are divided into several subject-specific domains, however, articles published in the journal may appear in multiple domains.

The JISR October 2022 Issue is the inaugural issue and one of the most meaningful. This 64-page issue has 4 articles ranging from earth and environmental sciences, biomedical engineering, system software, to mathematics. Starting with “Catch the Wave” by Rayna Mandadi, focusing on the collection of energy from ocean waves. Then, “Creating a cost effective and faster way to synthesize DNA by using temperature variants” by Sargun Kaur, focused on the effects of temperature on the growth of synthesized E.coli DNA and how the E.coli is affected if it is exposed to four different temperatures. “The Effectiveness of Machine Learning on the Classification of Exoplanets” by Anirudh Iyengar, investigates what type of machine learning model would be the best at classifying exoplanets. Lastly, “The Relationship between Buffon’s Needle Problem and  $\pi$ ” by Dustin Li, verifies whether Buffon’s Needle Problem could be used to approximate  $\pi$ . This first issue is packed with exciting research from aspiring high school researchers.

We begin an impactful journal and hope The Open Access Journal of Innovative Student Research will promote innovation, diversity and equality in student research worldwide by this novel format.