

Data Discovery in Biomedical Genomics and Cancer Research - Implementing a New Paradigm

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Abstract

The past few decades have highlighted the need for large-scale approaches to data analysis in both rare disease genetics and cancer genomics due to the vast diversity of genomic variations. While individual and collaborative studies have advanced research, addressing the different levels of genomic diversity requires both data curation and the integration of disparate genomic resources. In this presentation, I will introduce some concepts and examples of genomic data repositories and explain how our work on the Progenetix oncogenomics resource aligns with standards development for the Global Alliance for Genomics and Health, particularly the GA4GH Beacon API.