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Background The most scientific data is spread across many journals and magazines. This alone makes this challenging to integrate, but the data also have features such as being highly privacy sensitive that dramatically inhibit integration within life and health sciences interoperability projects that focused on machine-readable data in the late 1990s and early 2000s. The solution in the early 2000s. Some approaches proposed the interoperability problem as to the data owner, trying to enforce harmonization at source, such as eHLS and eHPS – calling created an interface standard for the source organizations themselves that allowed them to share data. This approach was not successful. eHLS, for the bioinformatics community, provided a language that all sites should respond to. With respect to more general purpose interoperability, *interact* and *bioInteract* were used. *bioInteract* based interoperability projects