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Development of infrastructure technologies for bioinformatics information

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In the field of life science, researchers have faced large amounts of data, analytical tools, applications and databases as experimental and IT technologies develop. The coexistence of a large number of individual resources and systems necessitates a great deal of time and effort for their management and operation, making it difficult for researchers to deal with those resources and cope with rapid changes/novel technologies in the field. We have been making efforts using state-of-the-art information technology to construct a bioinformatics information infrastructure for the seamless integration of internally and externally developed and maintained life-science-related software programs and databases. In this lecture, workflow systems are introduced as analytical resources which are capable of calculating, analyzing, and visualizing biological data easily using a platform. The workflow system is highly flexible and can accommodate any changes or updates whenever new or modified data and corresponding analytical tools become available.