A web-based script for managing quantitative and qualitative information on cellular networks

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A web-based environment provides a user-friendly interface which is easy to use and to be understood straightforward by and is available at anytime, anywhere. Based on these benefits, a number of web-based simulation tools are currently being developed. This environment, however, has some constraints. The data format is limited and it gives only fixed- or given-format data. However, those problems can be solved with Simple Object Access Protocol (SOAP). SOAP provides lots of useful functions – especially extensibility and fast response. We have been developing a web-based script using this technology. This script focuses on simulation of biological models and offers quantitative and qualitative analysis. It is expected to contribute to developing models and analyzing pathway networks under various conditions through the advanced in silico experiments.