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The current revolution in sequencing technologies enables a far more detailed picture of the transcriptome. We have developed the integrative online platform, **Oqtans**, for quantitatively analyzing RNA-Seq experiments. It is based on the Galaxy-framework and provides tools for read mapping, transcript reconstruction and quantitation, as well as differential expression analysis.

A fully automated infrastructure installs software, test datasets, and packages from simple configuration scripts.











Minimizing the vulnerability of **Stored** and **Reflected** XSS involves validating the input data at the server-side using ModSecurity with customized rules.



User passwords stored insecurely. hash = salt + sha256(salt + password)

[1] Sreedharan V et. al., Oqtans: The RNA-seq Workbench in the Cloud for Complete and Reproducible Quantitative Transcriptome Analysis, Bioinformatics, 2014 doi: 10.1093/bioinformatics/btt731.

[2] Blankenberg, D. et al., Galaxy: a web-based genome analysis tool for experimentalists, Curr Protoc Mol Biol, 2010 doi: 10.1002/0471142727.mb1910s89.

[3] Wolfe, A., Singh, K., Zhong, Y. et al., RNA G-quadruplexes cause eIF4A-dependent oncogene translation in Cancer, Nature in press 2014, doi: 10.3038/nature13485.