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GelJ - a Tool for Analyzing DNA Fingerprint Gel Images César Domínguez, Jónathan Heras, Eloy Mata, Vico Pascual

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Abstract

DNA fingerprinting is a technique for comparing DNA patterns that has applications in a wide variety of contexts. Several commercial and freely-available tools can be used to analyze DNA fingerprint gel images [1]; however, commercial tools are expensive and usually difficult to use; and, free tools support the basic functionality for DNA fingerprint analysis, but lack some instrumental features to obtain accurate results. GelJ is a feather-weight, userfriendly, platform-independent, open-source and free tool for analyzing DNA fingerprint gel images [2].

Workflow to analyse DNA fingerprint gel images

Workflow to compare DNA fingerprint gel images



Conclusions

GelJ is an easy to use tool for analyzing DNA fingerprint gel images. It combines the best features of free and commercial tools: GelJ is light and simple to use (as free programs), but it also includes the necessary features to obtain precise results (as commercial programs). In addition, GelJ incorporates new functionality that is not supported by any other tool.

Availability and requirements

- Project home page: https://sourceforge.net/projects/gelj/
- Operating system(s): Platform independent
- Other requirements: Java 6 or higher

Bibliography

1. J. Heras, C. Domínguez, E. Mata, V. Pascual, C. Lozano, C. Torres, M. Zarazaga. GelJ - a tool for analyzing DNA fingerprint gel images. BMC Bioinformatics 16: 270, 1-8, (2015).

2. J. Heras, C. Domínguez, E. Mata, V. Pascual, C. Lozano, C. Torres, M. Zarazaga. A survey of tools for analysing DNA fingerprints. Briefings in Bioinformatics 17(6): 903-911 (2016).

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