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**Comments to Editor:** 

One wonders if there could be other types of literature review of software/databases that would be more helpful for the reader/user. This review is perfectly fine and comprehensive covering all the software that is available for the different steps of metabolomics data analysis and available databases. But, it's difficult for the reader to get a grasp of what it would be the best way to analyze his/her own data. I would personally favor the idea of using a dataset and guide the reader trough the multiple options that would be available for him/her. Since a great deal of the tools presented are in R a tutorial like R-markdown document would be a very helpful for the reader to have. At the end of the day most people will read the review to figure out how the can analyze their own data.

Maybe it would be a good idea for a journal like Gigascience to consider this type of articles? Something like Nature Protocols but for code?

See for example: https://link.springer.com/protocol/10.1007/978-1-62703-580-4\_5

**Comments to Author:** 

This is a very comprehensive and complete review of available tools and databases available to perform plant metabolomic analysis.

My only concern is that it may daunting for the reader to grasp the breadth and depth of all the possibilities available for her/him in the current format. The figure helps to get a broad view of the different steps required to perform this type of analysis. I suggest to include a table with available tools for the different steps in the data analysis pipeline and indicating the type of tool (GUI, command line) language (R, Java etc).

Other than that I only have some minors comments/corrections.

<ul> <li>1 38: add full stop or semicolon after Arabidopsis Thaliana.</li> <li>1 78: change to: plant metabolic responses will be best exploited in the future</li> <li>1 231 to 236: Break down this sentence in two. Too long to follow properly.</li> <li>1 308: iterates instead of iterating</li> <li>1 440: full stop after metabolites</li> <li>1 463: describe SDF files.</li> <li>1 575: Also include http://fiehnlab.ucdavis.edu/projects/fiehnlib</li> <li>1 731: PlantCyc only has 22 species.</li> <li>1 743: Brachypodium instead of Bracypodium.</li> <li>1 766: maybe cite here services that allow conversion between different types of metabolite chemical information like the chemical translation service: http://cts.fiehnlab.ucdavis.edu/</li> <li>1 818: worth commenting here on persistence of web services and algorithms over time. Is very common that tools are made and then no longer maintained and supported. As an example, the muscleproject.org website, published in 2015, is not available. R packages in this regard do provide a better way to curate software through bioconductor and CRAN. (Nice review about this here: http://www.sciencedirect.com/science/article/pii/S1360138516301996)</li> </ul>
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