

New paper: “Discovering life’s directed metabolic (sub)paths to interpret human biochemical markers using the DSMN tool”

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Keywords

Wikipathways, Metabolomics

Abstract

I am still catching up with a lot of work, and found out I actually had forgotten to blog about this cool article by Denise Slenter: “Discovering life’s directed metabolic (sub)paths to interpret human biochemical markers using the DSMN tool” (doi:10.1039/D3DD00069A). This paper explains how various open science resources (Wikidata, Reactome, WikiPathways) are used to visualize the biological story of the data from two metabolomics experiments

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that can be pulled it via knowledge graphs becomes immediately available by using this [FAIR](#) approach.

One last note, the reader may notice a focus on the shortest path. Of course, the biological relevant path may not be the “shortest” path. But from a network analysis perspective that question is purely academic. Neo4J, like other tools, support finding all paths. But validation which paths (the shorter or any of the longer) is biologically most relevant first depends on actually more biological knowledge to become FAIR. After this, it is just push button.