ResearchMaps

To plan experiments, a biologist needs to evaluate a growing set of empirical findings and hypothetical assertions from diverse fields that use increasingly complex techniques. To address this problem, Matiasz et al., operationalized principles (e.g., convergence and consistency) that biologists use to test causal relations and evaluate experimental evidence. With the framework they derived, they then created a free, open-source web application that allows biologists to create research maps, graph-based representations of empirical evidence and hypothetical assertions found in research articles, reviews, and other sources. With the ResearchMaps web application, biologists can systematically reason through the research that is most important to them, as well as evaluate and plan experiments with a breadth and precision that are unlikely without such a tool [1]

[1)]

Matiasz NJ, Wood J, Doshi P, Speier W, Beckemeyer B, Wang W, Hsu W, Silva AJ. ResearchMaps.org for integrating and planning research. PLoS One. 2018 May 3;13(5):e0195271. doi: 10.1371/journal.pone.0195271. eCollection 2018. PubMed PMID: 29723213.

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