How Do Electronic Laboratory Notebooks Inspire Researchers?

Virginia Pannabecker
Health, Life Science, and Scholarly Communication Librarian
Virginia Tech, University Libraries

**Objectives**
This study explores if and how electronic laboratory notebook (ELN) platforms include features that may facilitate researchers in: collaborating, incorporating research literature in laboratory practices; or implementing best practices in research data management. It also looks to discover what other features are important to researchers when using an ELN.

**Methods**

**Electronic lab notebooks OR electronic lab notebook OR electronic laboratory notebooks OR electronic laboratory notebook OR e-notebook** OR e-lab platform
Title, Abstract, and Index terms

**Discussion**
This review of ELN focuses on the perspectives of laboratory researchers in academic institutions, with inclusion of articles and view points from industry researchers. Key benefits of ELN platforms for academic researchers include increased productivity, support for Good Lab Practice and reproducibility of results. They also prioritize free or lower cost platforms and open source or flexible platforms that allow themselves to be customized for tool and software integration, and for multi-disciplinary use. Platforms that can be used to collect, document, and store, analysis, results, and create archival files for multiple data formats are important.