



Case Study

Plastomics tracks projects, experiments and samples with eLabJournal

“Due to the ease of access to eLabJournal’s internet-based software, all team members can access and track relevant information from separate computers.”



Plastomics Inc.

Plastomics Inc. is an agricultural biotechnology company developing a better way to make the next generation of biotech crops using chloroplast engineering. Nuclear engineering, used to make all current biotech crops, has become a limiting technology. Crops of the future need dozens of traits to

achieve higher yields and feed a growing world population. Chloroplast engineering results in better expression of trait genes, improves “stackability” of traits, and reduces development time and costs, resulting in more rapid introduction of traits to the market and improved profits for seed companies.

Goal

To work with trait providers and seed companies to create new biotech crops with enhanced traits.

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Alice Hui
Molecular biologist

“Our R&D pipeline generates a large number of samples and sample types that require tracking through multiple changes of ownership and product development phases. eLabJournal software allows us to document our experiments using the Electronic Lab Notebook module, and associate samples using the Sample Management Module. These tracking capabilities allow us to maintain high QA/QC standards and secure stewardship of customer-associated samples. Due to the ease of access to eLabJournal’s internet-based software, all team members can access and track relevant information from separate computers, thus avoiding the limit of a single point of access. Lab members can devote more time and effort to performing their experiments.”

Challenge

Easily and accurately manage documentation so lab members can devote more time and effort to performing their experiments

Plastomics utilizes a large pipeline of trait gene DNA and plant samples during its process development efforts. eLabJournal allows us to efficiently and precisely track all samples and experiments. Quality control of our process is critical. Handwritten tracking is onerous, time-consuming, and may result in human error. The eLabJournal Electronic Lab Notebook and Sample Management modules simplify the tracking process and provide significantly enhanced quality assurance to our pipeline.

Solution

Reduce tedious manual work by barcoding individual samples

With eLabJournal Sample Management, barcoding of individual samples allows us to track a large number of samples and experiments virtually and know the current phase of each project without using any additional physical resources. The deciding factor in choosing eLabJournal was the flexibility in the software that allows us to modify sample type input requirements to meet all the needs of our lab.

Result

Maintaining high QA/QC standards and secure stewardship of customer-associated samples

We can rapidly sort through and keep track of all our many projects with minimal effort. We have also enhanced our quality control and assurance, allowing us to easily and effectively comply with the high standard of stewardship our customers demand. Barcoding individual samples enables precise identification with its matching customer data. Now, our QC/QA process is absolutely thorough and consistently accurate.



About eLabJournal

eLabJournal offers an intuitive and flexible solution to manage information in your lab. The all-in-one Electronic Lab Notebook also includes modules for sample tracking and protocol management. eLabJournal improves efficiency when documenting, organizing, searching and archiving data, samples and protocols. The software is suitable for any lab ranging from small academic laboratories and start-up companies to large academic institutes and globally operating companies.



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Want to learn more about our laboratory information management solution?

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