CLARK+ELBING

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Dana O. Robinson, Ph.D.

Technology Specialist

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EDUCATION

Ph.D., Plant Biology, Cornell University

B.A. *magna cum laude*, Biology and Environmental Studies, Knox College

PRACTICE AREAS

Corporate & Investment Diligence
Licensing & Transactions
Patent Opinions
Patent Prosecution
Strategic Counseling
Trade Secrets
Trademarks

TECHNOLOGIES

Chemistry & Materials Science
Industrial Devices
Life Sciences
Medical Devices & Diagnostics

OVERVIEW

Dana's work involves the drafting and prosecution of patent applications, primarily in the field of plant biology.

Dana's doctoral research focused on quantifying scaling relationships between cell ploidy and organelle, cell, and organism size in diploid and polyploid *Arabidopsis* plants. These studies equipped Dana with broad expertise in molecular, cell, and developmental biology techniques including vector cloning, plant transformation, and flow cytometry, and in advanced biological imaging and image processing techniques including confocal microscopy, electron microscopy, and live imaging. Dana has also worked on agricultural species, including corn and soybean.

As an academic researcher, Dana:

- Generated polyploid, transgenic plant lines
- Developed a novel 3D image processing pipeline to measure ratios between nuclear size and cell size
- Characterized compensatory mechanisms that mitigate the effect of ploidy change on organ size

Dana's original research papers and scholarly review articles have been published in *Plant Cell*, *Developmental Cell*, and *Current Opinions in Genetics and Development*.

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