ABSTRACT

TITLE:	Lighting Up the Future: An in Depth Look Into Quantum Dots and Their Application in Bio-Medical Imaging
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PRESENTED AT:	4th Annual Natural & Behavioral Sciences Undergraduate Research Symposium, Fort Lewis College

ABSTRACT: The recent discovery of fluorescent nano-crystals "Quantum Dots" have opened up a entirely new field of research in bio-medical imaging. Because of the semi-conducting nature of these nano-crystals certain properties are observed that conventional organic dyes do not have: resistance to photobleaching, very high quantum yield, and tuneable emission. By integrating this technology into existing procedures, the success of the procedures are amplified exponentially.