



A Laboratory Course in Tissue Engineering

Melissa Kurtis Micou, Dawn Kilkenny

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Each experiment includes background information, learning objectives, an overview, safety notes, a list of materials, recipes, methods, pre- and postlab questions, and references. Emphasizing the importance for engineering students to develop strong communication skills, each experiment also contains a data analysis and reporting section that supplies a framework for succinctly documenting key results. A separate chapter provides guidelines for reporting results in the form of a technical report, journal article, extended abstract, abstract, or technical poster.

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The book is a convenient source of instructional material appropriate for undergraduate or graduate students with fundamental knowledge of engineering and cell biology. All of the experiments have been extensively tested to improve the likelihood of successful data collection. In addition, to minimize lab costs, the experiments make extensive use of equipment commonly found in laboratories equipped for tissue culture. A solutions manual, available with qualifying course adoption, includes answers to pre- and postlab questions, suggested equipment suppliers and product numbers, and other resources to help plan a new tissue

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