Clinically Relevant Fiber-Based Scaffold Specifications
to Optimize Implant Selection and Patient Outcomes

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This presentation covers characterization methods for fiber-based scaffolds that should improve decisions regarding scaffold choice in a tissue-engineered regenerative medicine musculoskeletal implant. The decision regarding an appropriate battery of characterization testing is equally important for fiber-based scaffolds that are intended for use in other body systems, and the framework for making those decisions will be similar to the framework presented here using the example of the musculoskeletal system. The characterization profile will have as its goal the inclusion of those testing methods necessary to optimize primarily the implant’s safety, and also its efficacy, which together will optimize patient outcomes.