

The first of its kind, this comprehensive resource integrates cellular mechanobiology with micro-nano techniques to provide unrivalled in-depth coverage of the field, including state-of-the-art methods, recent advances, and biological discoveries.

Structured in two parts, the first offers detailed analysis of innovative micro-nano techniques including FRET imaging, electron cryomicroscopy, micropost arrays, nanotopography devices, laser ablation, and computational image analysis. The second part of the book provides valuable insights into the most recent technological advances and discoveries in areas such as stem cell, heart, bone, brain, tumor, and fibroblast mechanobiology.

Written by a team of leading experts and well-recognized researchers, this is an essential resource for students and researchers in biomedical engineering.

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