



Mechanobiology of Cell-Cell and Cell-Matrix Interactions

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Mechanobiology of Cell-Matrix Interactions focuses on characterization and modeling of interactions between cells and their local extracellular environment, exploring how these interactions may mediate cell behavior. Studies of cell-matrix interactions rely on integrating engineering, (molecular and cellular) biology, and imaging disciplines. Recent advances in the field have begun to unravel our understanding of how cells gather information from their surrounding environment, and how they interrogate such information during the cell fate decision making process. Topics include adhesive and integrin-ligand interactions; extracellular influences on cell biology and behavior; cooperative mechanisms of cell-cell and cell-matrix interactions; the mechanobiology of pathological processes; (multi-scale) modeling approaches to describe the complexity of cell-matrix interactions; and quantitative methods required for such experimental and modeling studies.

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