

STRECH

Seminars in Translational Research



November 20, 2026
9:00AM-10:00AM
Virtual Seminar

SCAN ME



***Context Matters: Niche Signals That Drive Wound Repair of Fibrotic Disease,
Presented by Valerie Horsley, PhD***
Professor, Dermatology, Yale School of Medicine

Wound healing and fibrosis represent divergent outcomes of the same fundamental tissue response, yet the cellular and molecular signals that determine which path is taken remain incompletely understood. Rather than viewing these as separate processes, emerging evidence suggests they share common initiating mechanisms, and the difference lies in the signals within the tissue microenvironment. I will discuss explore how crosstalk between distinct dermal compartments shape the balance between the productive repair and pathological fibrosis. I will present data on how local metabolic and inflammatory cues, niche-derived signaling molecules, and the spatiotemporal organization of cell-cell interactions can either promote wound closure and tissue restoration or tip the balance toward excessive scarring and dysfunction. Understanding these contextual drivers offers new opportunities to therapeutically modulate wound outcomes, pushing tissues toward healing when repair is needed, or preventing fibrosis when it threatens organ function.

For information on participating in the current monthly seminar.
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