

## Preethy Parthiban

Postdoctoral Scholar, Neonatal and Developmental Medicine

### Bio

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My research centers on how the innate immune system shapes tissue remodeling in health and disease. During my PhD, I uncovered a key role for resident macrophages in driving cardiac fibrosis, identifying a macrophage-derived chemokine that directly activates cardiac fibroblasts. Building on this foundation, my postdoctoral work at Stanford focuses on neutrophil–macrophage crosstalk in disrupted alveolarization in neonatal mice and patients. By integrating cellular, molecular, and translational approaches, I aim to define how innate immune pathways orchestrate extracellular matrix remodeling. Ultimately, my goal is to identify critical therapeutic targets that improve outcomes in ECM-related diseases.

#### INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

#### STANFORD ADVISORS

- John Benjamin, Postdoctoral Faculty Sponsor