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Fucosylated Umbilical Cord Blood Regulatory T Cells

National Cancer Institute

Source

National Cancer Institute. *Fucosylated Umbilical Cord Blood Regulatory T Cells*. NCI Thesaurus. Code C121830.

Fucosylated, human umbilical cord blood (UCB)-derived regulatory T-cells (Tregs), with potential immunomodulating activity. Ex vivo, Tregs are isolated from cord blood, expanded, and fucosylated. Upon infusion, the fucosylated UCB Tregs modulate immune responses and induce tolerance to allogeneic transplants, such as hematopoietic stem cell transplants (HSCTs). This suppresses graft-versus-host disease (GVHD). Fucosylation improves the activity of Tregs and reduces the amount of Tregs that need to be expanded and infused.