

Jacy Scott

Doyle/Love Award

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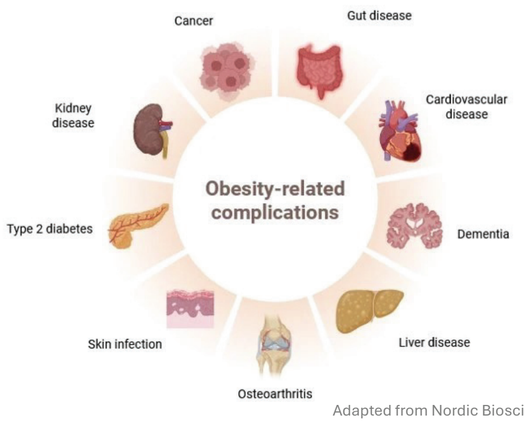
Understanding How Immune Cells Cooperate in Adipose Tissue to Protect Metabolic Health

Obesity disrupts the immune cells that protect fat tissue. I'm working out how those cells are supported and how to restore them.

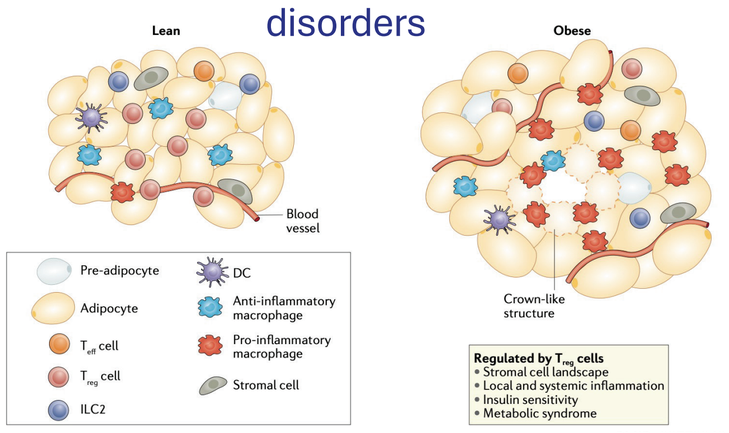
Obesity: Global Public Health Threat

1 in 8 people in the world are living with obesity



Adapted from Nordic Bioscience

Dysregulation of Visceral Adipose Tissue (VAT) immune cells drives obesity induced metabolic disorders



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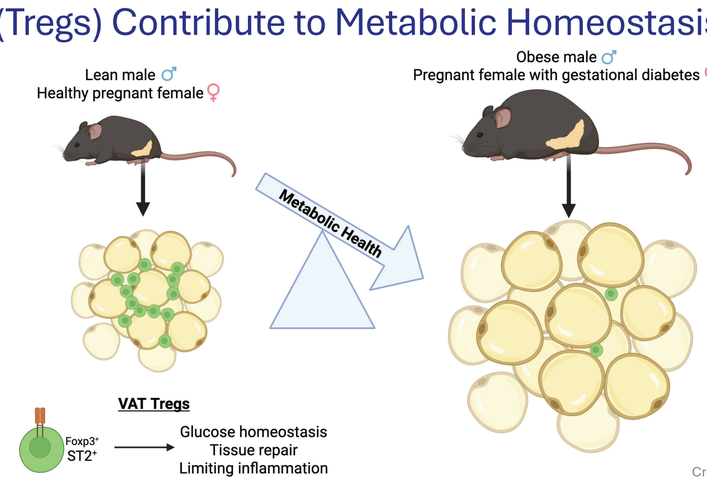
Visceral Adipose Tissue (VAT) Regulatory T Cells (Tregs) Contribute to Metabolic Homeostasis



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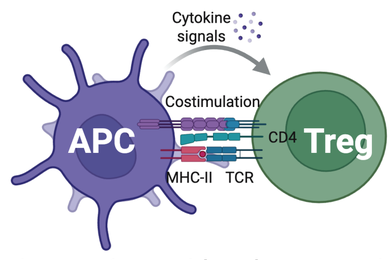
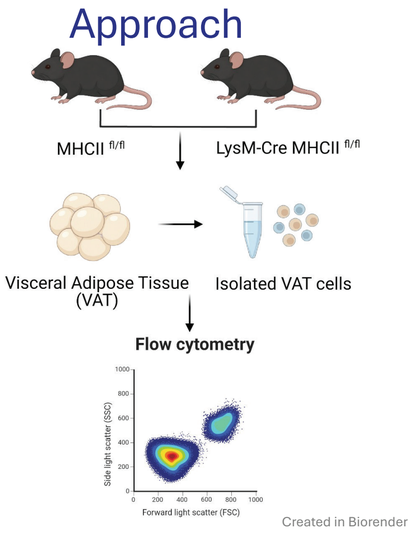
Hypothesis



Interactions with unknown antigen presenting cells (APC) may be critical for VAT Tregs

Approach



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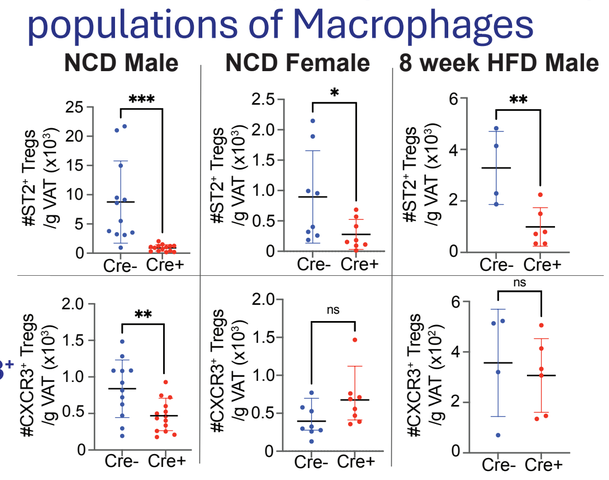
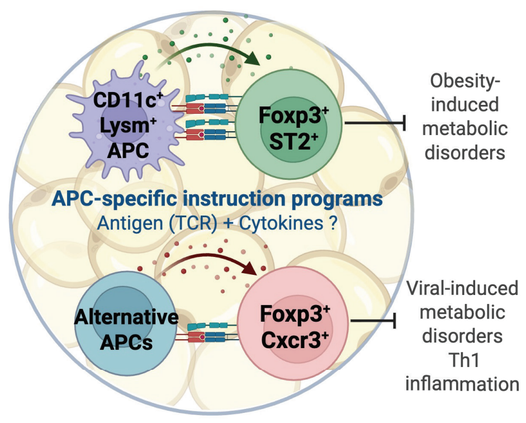
Critical ST2 VAT Tregs depend on unique populations of Macrophages



Conclusions and Future Directions



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A better understanding of the **APCs regulating VAT Tregs** offers the potential for **context** dependent VAT **Treg subsets specific therapeutic** applications.

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