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AREA(S) OF FOCUS:

Rational design & engineering of delivery systems to improve immune health

The Scott lab designs nanomaterials to improve the efficacy and accuracy of immunotherapies, diagnostics, and vaccines.

KEY RESEARCH AREAS:

Nanomaterial based drug delivery

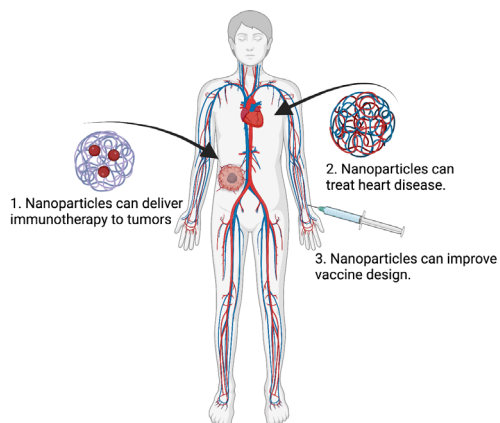
Enhance efficacy, reduce side effects, and repurpose drugs via nanomaterials that target specific cell populations.

Nanomaterial based tolerance

Develop nano-materials that inhibit inflammation or induce antigen-specific tolerance for heart disease and diabetes.

Nanomaterial based vaccines

Engineer nano-materials for the rapid development of vaccines against cancer, tuberculosis and Chagas disease.



ENTREPRENEURIAL SUCCESS:



SNC Therapeutics designs synthetic nanocarriers – inspired by viral structures – allowing the controlled expression of protein biologics for the treatment of cancer and other therapeutic indications.

SNC Therapeutics’ platform delivery technology can stabilize and deliver a broad range of therapeutic agents including:

- Small molecules
- Nucleic acid (mRNA & plasmid)
- Peptides
- Proteins
- Combinations thereof

Current focus is on nonviral gene delivery for localized expression of multiple biologics (IL-2, IL-12 & IL-15) within tumors for cancer immunotherapy.

Dr. Scott has received the NIH Director’s 2015 New Innovator Award, the 2015 National Science Foundation’s CAREER Award, the 2022 Biomedical Engineering Society Mid-Career Award, and is a Fellow of the American Institute for Medical and Biological Engineering (AIMBE). SNC recently received the AbbVie Innovation Midwest award (2022).



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