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AREA(S) OF FOCUS:

Uncovering the mechanisms of autoimmune diseases

The Miller lab studies the cellular and molecular mechanisms underlying the initiation and progression of autoimmune diseases.

KEY RESEARCH AREAS:

Mechanisms of autoimmunity

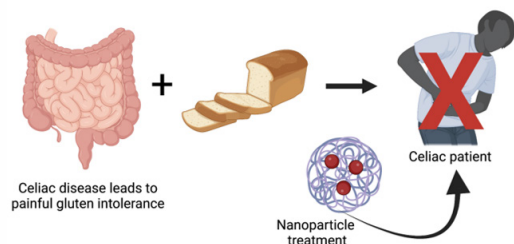
Investigate the key molecular factors behind autoimmune diseases.

Tolerance regulation

Understand how the immune system develops tolerance to improve the longevity of organ transplants.

Novel treatments for autoimmune conditions

Develop nanoparticles that convince the immune system not to attack molecules that otherwise would induce autoimmune reactions.



ENTREPRENEURIAL SUCCESS:

COUR

Cour Pharmaceuticals develops nanoparticles to reprogram the immune system and induce tolerance in immune-mediated diseases.

The immune-modifying nanoparticles treat the root cause of immune-mediated diseases, in contrast to traditional treatments that reduce symptoms via immunosuppression. Their pipeline targets celiac disease, Type 1 diabetes, and peanut allergies, among others.

In partnership with Takeda, Cour Pharmaceuticals has developed CNP-101/TAK-101, a nanoparticle for celiac disease. In a Phase 2 clinical trial, CNP-101/TAK-101 reduced small intestine inflammation in celiac patients after ingesting gluten.

Their pipeline includes other nanoparticle therapies still in early stages of development.

Over \$30M of venture funding raised (2022).