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Materials Science & Engineering, Biomedical Engineering

AREA(S) OF FOCUS:

Developing novel materials for diagnostics and therapeutics

The Gianneschi lab is advancing materials science and chemistry to study and perturb biological systems for translational biomedical applications.

KEY RESEARCH AREAS:

Precision polymer chemistry for therapeutics

Bioconjugate polymers for cardiovascular disease, cancer and neurodegenerative disease.

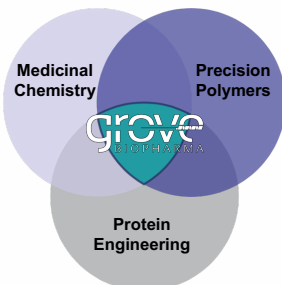
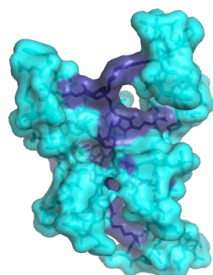
Synthetic melanins

Mimicking and engineering nature's sponge, towards materials for absorbing toxins, radicals and in optical materials. Basic science and implications in human health.

Liqui-phase chromatography

Nanomaterial dynamics, reactivity and structure studied at high resolution in the solution phase.

Protein-Like Polymers™



ENTREPRENEURIAL SUCCESS:

Co-founder



Grove Biopharma utilizes Protein-Like Polymers (PLPs). This platform leverages proteomimetic polymers as a new therapeutic modality to engage traditionally “undruggable” protein-protein interactions.

PLPs have unique properties:

- Penetrate cell membranes
- Cross the blood-brain barrier
- High affinity and selectivity
- High potency
- Long circulatory half-life
- Rapid design-build-test cycles

Seed and early-stage VC (most recent 2022).

Portfolio company at Portal Innovations.



CHICAGO
BIOMEDICAL
CONSORTIUM

