

# **Jessica Rouge, Ph.D.**

**Assistant Professor of Chemistry at University of Connecticut**

Storrs, CT, US

Professor Rouge is an expert in enzyme-mediated assembly of nanomaterials and delivery of DNA and RNA into cells.

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## **Biography**

Professor Rouge researches nanoparticles for drug delivery. She seeks to understand how enzymes and nucleic acids can be used in new ways to engineer highly specific and targeted responses in chemical and biological systems. Developing new chemical strategies for assembling catalytic RNA sequences at nanoparticle surfaces has sensing, diagnostic and therapeutic applications.

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## **Areas of Expertise**

SELEX, Therapeutic Oligonucleotides, Gene Regulation, Nanocharacterization

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## **Education**

**Northwestern University**

Postdoctoral Fellow Chemistry

**University of Colorado**

Ph.D. Chemistry

**Boston College**

B.S. Biochemistry

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## **Accomplishments**

**NFS Career Award**

NSF CAREER Award (2019)

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