

CHEM 542. ADVANCED NUCLEIC ACID CHEMISTRY.

Credits: 3

Offered by: Chemistry (Faculty of Science)

Terms offered: Winter 2026

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Description

Advanced-level chemical reactivity and metal binding properties, advanced methods for synthesis, purification and characterization of DNA/RNA, non-canonical DNA/RNA structures and functions, self-assembly of functional nucleic acid-based materials, chemical and fluorescence-based methods for probing nucleic acids in vitro and in vivo, in vitro evolution of functional nucleic acids for biotechnology, and diagnostic and therapeutic applications of modified nucleic acids.

- Prerequisites: CHEM 302 CHEM 332 or BIOL 200 BIOL 201 or permission of the instructor.

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