



UTHealth Institutional Biosafety Committee (IBC)

Title: Principal Investigator Responsibilities

for the Use of Recombinant or Synthetic Nucleic Acid Molecules

Section: Biological Safety

IBC Approval Date: February 2016 Revision Date: April 9, 2024

NIH Guidelines for Research Involving Recombinant or Synthetic Nucleid Mode dules (NIH Guidelines)
Revised April 2024

https://osp.od.nih.gov/policies/biosafetndbiosecuritypolicy#tab2/

Purpose: The purpose of the NIH Guidelinies to specify practices for constructing and handling recombinant or synthetic nucleic acid molecules and organisms ontaining recombinant or synthetic nucleic acid molecules

Definition: In the context of the NIH Guidelin, execombinant and synthetic nucleic axidlecules are defined as

- 1) molecules that a)re constructed by joining nucleic acid molecules and b) that can replicate in a living cell (i.e., recombinant nucleic acids
- 2) nucleic acid molecules that are chemically or by other means synthesized or amplified, including those that are chemically or otherwise modified but can base pair with naturally occurring nucleic acid molecules. \(\ext{\ell} \), synthetic nucleic acid \(\ext{\ell} \)
- 3) molecules that result from the replication of those previously described.

Applicability: As a condition for NIH funding of rDNAand sNAresearch, institutions shall ensure that such research conducted at or sponsored by the institution, irrespective of the source of funding, shall comply with the NIH Guidelines

Principal Investigator Responsibilities For responsibilities of the PI please see Sectior of the NIH Guidelines

Experiments Covered by the NIH Guidelines

Section III-B: Deliberate formation of rDNA sontaining genes for the biosynthesis of toxin molecules lethal for vertebrates at an Deliberate stan 100 ng/kg body weight Requires IBC and NIH/Office of Science Polic(NIH/OSP) Approval Before Initiation

Section III-C:

Biological Safety Program

Main number, 713500-8170

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For further information, please contact Environmental Health & Safety **a5070**8100 or visit our website at https://www.uth.edu/safety/biologisafety/index.htm

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