For NIH Section Citations (2-d WCU Form), please see below to evaluate which section (categories) your experiment will be assigned; You may designate as “D (1-3)”, “D (4-7)”, “E”, etc.

The full NIH Guidelines Section can be accessed here.

Section (Categories)	Definition	Example(s)
III-A	Introducing resistance to a clinically relevant antibiotic into a microorganism	Making *Staphylococcus aureus* resistant to doxycycline Making *Clostridium difficile* resistant to vancomycin
III-B	Cloning of toxin molecules (LD50 < 100 ng/kg)	Cloning botulinum toxin into *Escherichia coli* BL21
III-C	Deliberate transfer of rDNA/SNA, or DNA or RNA from rDNA/SNA into humans	Initiating a clinical research experiment to test the efficacy of a retroviral vector for targeting a specific disease Introducing CRISPER-Cas9 to humans to target a cancer gene
Note: Above categories require additional reviews: Categories III A-C require review by NIH (RAC and/or OBA); Level C experiments require Human Subjects (IRB) review		
III-D (1-3)	rDNA/SNA experiments with pathogens rDNA/SNA experiments with pathogenic DNA DNA/RNA virus work Viral vector with helper functions	Cloning GFP plasmid into *Pseudomonas aeruginosa* CRISPER-Cas9 modification of *Helicobacter pylori* Using modified *Plasmodium falciparum* purchased from ATCC Cloning *Salmonella typhimurium* genes into *E. coli* BL21 Packaging a 3rd generation lentiviral vector into HEK cells
III-D (4-7)	rDNA/SNA experiments in animals or microorganisms going into animals	Modifying the Aag gene in rats Injecting modified HeLa cells into mice Feeding mice *Lactobacillus reuteri* containing GFP

	rDNA/SNA experiments in weeds or exotic plants or with plant pathogens Select influenza studies More than 10L of culture in one vessel	Growing 11 liters of E. coli K12 with yellow fluorescent protein Generating a novel strain of influenza by combining fragments from different seasonal strains
III-E	rDNA/SNA in domestic, non-weed plants, or with non-pathogenic organisms in plants Transgenic mice work at BSL1 Anything not covered by other categories Work with <2/3 of DNA from a eukaryotic virus in tissue culture at BL1	Modifying *Arabidopsis* Adding *B. subtilis* with GFP to the soil of spinach Creating transgenic mice in BSL1 containment Cloning GFP into *E. coli* BL21
III-F	rDNA/SNA that can't replicate in living cells or can't enter living cells Low risk rDNA/SNA already found in nature Transposons found in nature rDNA/SNA work in a specific list of organisms	rDNA/SNA (with less than half of any eukaryotic virus) propagated and maintained in cells in tissue culture rDNA/SNA in *E. coli* K-12, *S. cerevisiae*, S*. uvarum, K. lactis*, or *B. subtilis* strains PCR fragments from genomic DNA

Obtained from: https://ehs.mit.edu/site/biosafety/nih-guidelines