SUNY College of Environmental Science and Forestry

RECOMBINANT DNA RESEARCH REGISTRATION

IBC Reg. # _____
Date _____
Biosafety Level _____
Action _____

Do Not Write in this Box (IBC Only)

If your research involves any of the following, you are exempt from submitting this IBC form and from NIH Guidelines pertaining to recombinant DNA.

(1) Recombinant DNA in Tissue Culture

Recombinant DNA molecules containing less than one-half of any eukaryotic viral genome.

(2) *Escherichia coli* K-12 Host-Vector Systems

Experiments which use *Escherichia coli* K-12 host vector systems, with the exception of those experiments listed in Appendix C-11-A, are exempt from the *NIH Guidelines* provided that: (i) the *Escherichia coli* host does not contain conjugation proficient plasmids or generalized transducing phages; or (ii) lambda or lambdoid or Ff bacteriophages or non-conjugative plasmids (see `Appendix C-VII-B`, *Footnotes and References of Appendix C*), shall be used as vectors. However, experiments involving the insertion into *E. coli* K-12 of DNA from prokaryotes that exchange genetic information (see `Appendix C-VII-C`, *Footnotes and References of Appendix C)* with *E. coli* may be performed with any *E. coli* K-12 vector (e.g., conjugative plasmid). When a non-conjugative vector is used, the *E. coli* K-12 host may contain conjugation-proficient plasmids either autonomous or integrated, or generalized transducing phages. For these exempt laboratory experiments, Biosafety Level (BL) 1 physical containment conditions are recommended. For large-scale fermentation experiments, the appropriate physical containment conditions need be no greater than those for the host organism unmodified by recombinant DNA techniques; the Institutional Biosafety Committee can specify higher containment if deemed necessary.

(3) *Saccharomyces* Host-Vector Systems

Experiments involving *Saccharomyces cerevisiae* and *Saccharomyces uvarum* host-vector systems, with the exception of experiments listed in `Appendix C-III-A`, are exempt from the *NIH Guidelines*. For these exempt experiments, BL 1 physical containment is recommended. For large-scale fermentation experiments, the appropriate physical containment conditions need be no greater than those for the host organism unmodified by recombinant DNA techniques; the Institutional Biosafety Committee can specify higher containment if deemed necessary.

(4) *Bacillus subtilis* or *Bacillus licheniformis* Host-Vector Systems

Any asporogenic *Bacillus subtillis* or asporogenic *Bacillus licheniformis* strain which does not revert to a spore-former with a frequency greater than 10^{-7} may be used for cloning DNA with the exception of those experiments listed in `Appendix C-IV-A`, *Exceptions*. For these exempt laboratory experiments, BL-1 physical containment conditions are recommended. For large-scale fermentation experiments, the appropriate physical containment conditions need be no greater than those for the host organism unmodified by recombinant DNA techniques; the Institutional Biosafety Committee can specify higher containment if it deems necessary.

(5) Extrachromosomal Elements of Gram Positive Organisms

Recombinant DNA molecules derived entirely from extrachromosomal elements of the organisms

belonging to the following bacterial genera: *Bacillus, Clostridium, Lactobacillus, Listeria, Pediococcus, Staphylococcus,* and *Streptococcus,* with species names provided in *NIH Guidelines* (April 2002).

( ) New Research (Date of Initiation):

( ) Ongoing Research Revision

1. Principal Investigator _____

   Title _____

2. Department/Faculty _____

3. Office Number/Building _____

4. Phone Numbers _____

5. Lab Location _____

6. Project Title _____

7. Granting Agency (if applicable) _____

8. Provide a Project Summary (1 page maximum) _____

9. Sources of DNAs _____

10. If an eukaryotic virus, is it more than 2/3 of the viral genome? _____

11. Will this research include genetic modification of any human or exotic animal or plant pathogen? If yes, describe the risk group level (*NIH Guidelines, Appendix B*) and the genetic modifications to the pathogenic agent and the containment level to be used.

12. Specify the nature (e.g., genomic, cDNA, synthetic, coding or non-coding sequence(s) of the inserted DNA _____

13. Host(s) and vectors to be used _____

14. Will the experiments involve transgenic, whole animals, whole plants, or greater than 10L of cell culture? If so, explain _____

15. Will a foreign gene be expressed in the host? _____

   If yes, specify the protein(s), materials, toxins, antigens, etc. (include incidental genes of vector _____

16. Physical containment level to be used (Biosafety Levels, BL1, BL2, BL3 or BL4; refer to Federal Guidelines) _____

17. Do you plan to release recombinants (cells or DNAs or whole organisms) into the environment? _____
If so, additional notification or approval is required from the federal government (USDA/EPA/NIH).

18. What disposal methods will be used? _____

19. Names of personnel participating in the recombinant work:

20. Attach the abstract of your proposal as an appendix to this form.

NAME	ROOM/BUILDING	PHONE

21. I accept full responsibility for the safe conduct of the recombinant DNA work described above. I will inform all personnel of the hazards associated with the work and the level of containment required to perform this research safely. I will make them aware of the Federal Guidelines associated with the Biosafety Level that is being required to perform the work.

Principal Investigator: _____ _____
Signature Date

RETURN TO: James P. Nakas (IBC Chairperson)
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Environmental and Forest Biology
SUNY College of Environmental Science and Forestry
1 Forestry Drive
Syracuse, NY 13210

Phone: (315) 470-6769

IBC Chair: _____ _____
Signature Date