

# Registration of Experiments Involving RECOMBINANT DNA

## Georgia State University Biosafety Committee

*This outline is intended to serve as an overview of the "Guidelines for Research Involving Recombinant DNA Molecules (NIH Guidelines)". It is the responsibility of each Georgia State investigator to make sure that his/her laboratory is in compliance. If your experiments require registration, check the Guidelines for the appropriate biosafety level and relevant section. For additional information, copies of the Guidelines or registration forms, or if you are unsure into which category your experiments fall, please call the Office of Research Integrity, Biosafety Program at 404-413-3510.*

Office of Research Integrity

Main office: 404-413-3511

Fax: 404-413-3504

<http://www.gsu.edu/research/ibc.html>

### Experiments which must be registered and approved prior to initiation

- 1) Deliberate transfer of a drug trait to a microorganism not known to acquire it naturally (if it could compromise the use of the drug to control disease agents in humans, animal or agriculture);
- 2) Human gene transfer experiments;
- 3) Cloning of DNA encoding molecules lethal to vertebrates at an LD 50 of <100 ug/kg body weight;
- 4) Cloning using human or animal pathogens as host-vector systems;
- 5) Cloning of DNA from all Risk Group 3, 4 or restricted human or animal pathogens (including HIV and related viruses, and human tumor viruses);
- 6) Experiments using more than 2/3 of the genome of infectious animal or plant viruses or defective viruses grown in the presence of helper virus;
- 7) Recombinant DNA experiments involving whole animals or plants;
- 8) Large scale DNA project (>10 liters of culture combined).

### Experiments that require registration simultaneous with initiation:

- 1) Experiments using as vectors  $\leq 2/3$  of the genome of a eukaryotic virus, free of helper virus;
- 2) Low risk plant rDNA experiments
- 3) BL1 transgenic or knockout rodent experiments. (Note: the purchase of transgenic rodents for BL1 experiments is exempt from registration);
- 4) All experiments not specified on this sheet.

### Experiments that are exempt from the NIH Guidelines:

- 1) rDNA containing less than 1/2 of a eukaryotic viral genome propagated in cell culture (with the exception of DNA from Risk Group 3, 4 or restricted agents);
- 2) rDNA work involving E.coli K12, S. cerevisiae, and B. subtilis host-vector systems (with the exception of DNA from Risk Group 3, 4, or restricted agents).

**All laboratories that work with biohazardous material (human tissue and blood products, human, animal and plant pathogens, biologically-derived toxins, etc.) must register with either the Institutional Biosafety Committee (non-exempt) or the University Biosafety Review Board (exempt).**

Appropriate forms for this registration can be obtained by calling the Biosafety Program of the Office of Research Integrity at 404-413-3510.

Laboratory questionnaires are also required on an annual basis for each lab.

These forms are available on the Biosafety Program website, <http://www.gsu.edu/research/ibc.html>



