The National Institutes of Health has established regulations for working with Recombinant DNA and certain microorganisms and toxins. Failure of anyone conducting research at/for The University of Southern Mississippi to comply with these regulations, even if that person does not receive funding from NIH, could cause the University to lose all funding from NIH. To help Southern Miss comply with these regulations, please check these forms to determine if your work will be required to follow any of the NIH guidelines.

_______ Will your work involve recombinant DNA?

If NO, skip to the next page. If YES, answer the remaining questions.

_______ Will your work involve the deliberate transfer of a drug resistant trait to microorganisms that are not known to acquire the trait naturally?

_______ Will your work involve the deliberate formation of recombinant DNA containing genes for the biosynthesis of toxin molecules lethal for vertebrates at an LD50 of less than 100 nanograms per kilogram body weight?

_______ Will your work involve the deliberate transfer of recombinant DNA, or DNA or RNA derived from recombinant DNA, into human research participants?

_______ Will your work involve the introduction of recombinant DNA into Risk Group 2, 3, or 4 agents?

_______ Will your work involve the transfer of DNA from Risk Group 2, 3, or 4 agents into nonpathogenic prokaryotes or lower eukaryotes?

_______ Will your work involve the use of infectious DNA or RNA viruses or, defective DNA or RNA viruses in the presence of helper virus in tissue culture systems?

_______ Will your work involve whole animals in which the animals genome has been altered by stable introduction of recombinant DNA, or DNA derived therefrom, into the germ-line?

_______ Will your work involve viable recombinant DNA-modified microorganisms tested on whole animals?

_______ Will your work involve genetically engineering plants by recombinant DNA methods, or experimentation with such plants, or propagation of such plants, or to use plants together with microorganisms or insects containing recombinant DNA?

_______ Will your work involve more than 10 liters of culture?
[continued on next page]

_______ Will your work involve the use of any of the microorganisms or toxins listed on the next three pages? If yes, please list which one(s) here.

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

If any of these questions are answered YES, the Biosafety Officer should be notified, and he should be provided with a copy of the research proposal.

Martha Sparrow, Bio-safety Officer
Box 5043
Telephone: 601-266-4045
Email: Martha.sparrow@usm.edu
Appendix B-III. Risk Group 3 (RG3) Agents

RG3 agents are associated with serious or lethal human disease for which preventive or therapeutic interventions may be available.

Appendix B-III-A. Risk Group 3 (RG3) - Bacterial Agents Including Rickettsia

--Bartonella
--Brucella including B. abortus, B. canis, B. suis
--Burkholderia (Pseudomonas) mallei, B. pseudomallei
--Coxiella burnetii
--Francisella tularensis
--Mycobacterium bovis (except BCG strain, see Appendix B-II-A, Risk Group 2 (RG2) - Bacterial Agents Including Chlamydia), M. tuberculosis
--PASTEURELLA MULTOCIDA type B - “buffalo” and other virulent strains
--Rickettsia akari, R. australis, R. canadensis, R. conorii, R. prowazekii, R. rickettsii, R. siberica, R. tsutsugamushi, R. typhi (R. mooseri)
--Yersinia pestis

Appendix B-III-B. Risk Group 3 (RG3) - Fungal Agents

--Coccidioides immitis (sporulating cultures; contaminated soil) --Histoplasma capsulatum, H. capsulatum var. duboisii

Appendix B-III-C. Risk Group 3 (RG3) - Parasitic Agents

None

Appendix B-III-D. Risk Group 3 (RG3) - Viruses and Prions

Alphaviruses (Togaviruses) - Group A Arboviruses
--Semliki Forest virus
--St. Louis encephalitis virus
--Venezuelan equine encephalomyelitis virus (except the vaccine strain TC-83, see Appendix B-II-D (RG2))
--Other viruses as listed in the reference source (see Section V-C, Footnotes and References of Sections I through IV)

Arenaviruses
--Flexal
--Lymphocytic choriomeningitis virus (LCM) (neurotropic strains)

Bunyaviruses
--Hantaviruses including Hantaan virus
--Rift Valley fever virus

Flaviviruses (Togaviruses) - Group B Arboviruses
--Japanese encephalitis virus
--Yellow fever virus
--Other viruses as listed in the reference source (see Section V-C, Footnotes and References of Sections I through IV)

Poxviruses
--Monkeypox virus
Prions
--Transmissible spongiform encephalopathies (TME) agents (Creutzfeldt-Jacob disease and kuru agents)(see Section V-C, Footnotes and References of Sections I through IV, for containment instruction)

Retroviruses
--Human immunodeficiency virus (HIV) types 1 and 2
--Human T cell lymphotropic virus (HTLV) types 1 and 2
--Simian immunodeficiency virus (SIV)

Rhabdoviruses
--Vesicular stomatitis virus

Appendix B-IV. Risk Group 4 (RG4) Agents

RG4 agents are likely to cause serious or lethal human disease for which preventive or therapeutic interventions are not usually available.

Appendix B-IV-A. Risk Group 4 (RG4) - Bacterial Agents

None

Appendix B-IV-B. Risk Group 4 (RG4) - Fungal Agents

None

Appendix B-IV-C. Risk Group 4 (RG4) - Parasitic Agents

None

Appendix B-IV-D. Risk Group 4 (RG4) - Viral Agents

Arenaviruses
--Guanarito virus
--Lassa virus

--Junin virus
--Machupo virus
--Sabia

Bunyaviruses (Nairovirus)
--Crimean-Congo hemorrhagic fever virus

Filoviruses
--Ebola virus
--Marburg virus

Flaviruses (Togaviruses) - Group B Arboviruses
--Tick-borne encephalitis virus complex including Absetterov, Central European encephalitis, Hanzalova, Hypr, Kumlinge, Kyasanur Forest disease, Omsk hemorrhagic fever, and Russian spring-summer encephalitis viruses
Herpesviruses (alpha)
--*Herpesvirus simiae* (Herpes B or Monkey B virus)

Paramyxoviruses
--*Equine morbillivirus*

Hemorrhagic fever agents and viruses as yet undefined
HHS NON-OVERLAP SELECT AGENTS AND TOXINS

- Crimean-Congo haemorrhagic fever virus
- Coccidioides posadasii
- Ebola viruses
- Cercopithecine herpesvirus 1 (Herpes B virus)
- Lassa fever virus
- Marburg virus
- Monkeypox virus
- Rickettsia prowazekii
- Rickettsia rickettsii

South American haemorrhagic fever viruses
- Junin
- Machupo
- Sabia
- Flexal
- Guaranito

Tick-borne encephalitis complex (flavi) viruses
- Central European tick-borne encephalitis
- Far Eastern tick-borne encephalitis
- Russian spring and summer encephalitis
- Kysanur forest disease
- Omsk hemorrhagic fever

- Variola major virus (Smallpox virus)
- Variola minor virus (Alastrim)
- Yersinia pestis
- Abrin
- Conotoxins
- Diacetoxyscirpenol
- Ricin
- Saxitoxin
- Shiga-like ribosome inactivating proteins
- Tetrodotoxin

HIGH CONSEQUENCE LIVESTOCK PATHOGENS AND TOXINS/ SELECT AGENTS (OVERLAP AGENTS)

- Bacillus anthracis
- Brucella abortus
- Brucella melitensis
- Brucella suis
- Burkholderia mallei (formerly Pseudomonas mallei)
- Burkholderia pseudomallei (formerly Pseudomonas pseudomallei)
- Botulinum neurotoxin producing species of Clostridium
- Coccidioides immitis
- Coxiella burnetii
- Eastern equine encephalitis virus
- Hendra virus
- Francisella tularensis
- Nipah Virus
- Rift Valley fever virus
- Venezuelan equine encephalitis virus
- Botulinum neurotoxin
- Clostridium perfringens epsilon toxin
- Shigatoxin
- Staphylococcal enterotoxin
- T-2 toxin

USDA HIGH CONSEQUENCE LIVESTOCK PATHOGENS AND TOXINS (NON-OVERLAP AGENTS AND TOXINS)

- Akabane virus
- African swine fever virus
- African horse sickness virus
- Avian influenza virus (highly pathogenic)
- Blue tongue virus (Exotic)
- Bovine spongiform encephalopathy agent
- Camel pox virus
- Classical swine fever virus
- Cowdria ruminantium (Heartwater)
- Foot and mouth disease virus
- Goat pox virus
- Lumpy skin disease virus
- Japanese encephalitis virus
- Malignant catarrhal fever virus (Exotic)
- Menangle virus
- Mycoplasma capricolum
- M.F38/M. mycoides capri
- Mycoplasma mycoides mycoides
- Newcastle disease virus (VND)
- Peste Des Petits Ruminants virus
- Rinderpest virus
- Sheep pox virus
- Swine vesicular disease virus
- Vesicular stomatitis virus (Exotic)

LISTED PLANT PATHOGENS

- Liberobacter africanus
- Liberobacter asiaticus
- Peronosclerospora philippinensis
- Phakopsora pachyrhizi
- Plum Pox Potyvirus
- Raistonia solanacearum race 3, biovar 2
- Schlerophthora rayssiae var zeae
- Synchytrium endobioticum
- Xanthomonas oryzae
- Xylella fastidiosa (citrus variegated chlorosis strain)