

Institutional Biosafety Committee Policy Manual

Research Integrity & Compliance

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1.1.4 Biosafety Level 4(BSL-4) a

biological and physical containment levels for biohazardous materidisr rDNA that are subject to its review and approval.

Section 4.0 Regulations and Guidelines

- 4.1 The IBCPolicy is drafted in accordance with following regulations and guidelines:
 - a. NIH Guidelines The NIH Guidelines publication is available from the NIH OSP.
 - b. <u>CDC/NIH BMBL</u>, published by the CDC and NIH. The BMBL is considered the standard for biosafety.
 - c. Code of Federal Regulations (CFR) CFR 73
 - d. Agricultural Bioterrorism Protection Act of 2002 CFR 331, and 9 CFR 121
 - e. USA Patriot Act October 2001,)
 - f. Public Health Security and Bioterrorism Preparedness Response Act of 2002
 - g. OSHA Bloodborne pathogen standards (1910.1030)

Section 5.0 Institutional Official

- 5.1 The Vice President for Researchmovation is the Institutional Official responsible for the Biosafety Program.
- 5.2 The Vice President for Researton is responsible for the C.
- 5.3 The Vice President for Researd movation is responsible for the appointment of IBC members.
- The Vice President for Researchmovation shall appoint the chairperson, vice chairperson, members and alternates of the IBQualified members shall be nominated as required, based on the recommendation of the IBSIBC Chairperson, and/or the irector of RIC Procedures for appointment of alternate members, terms of appointment, length of service, and duties are these to regular IBC members
- 5.5 The Vice President for Research Innovation is responsible for notifying the NIH
 OSP(Office of Science Policyand/or CDC of incidents of s a[f-6 (t)-62 (d -0.00(h)-10 7M0;
 -0.00 0 Td ()Tj EMC [(po8 Tw [((6-30 Tc y4 Tc 0.04 (e)4 8 Tw [((6-30 Tc 4 (e)]TJ -0.013 Tc)3 (orf4 Tc 0.00d9.07 (

6.0.2 The USF RIC Biosafety Prograpmovides professional and administrative support to the IBC

Section 6.1 Charge of the Committee

- 6.1.1 The IBC has been granted authority by the Vice President for Research Innovation on all matters pertaining to the safe use of biohazardous materials and/or rDNA in researchat USF.
 - a. The IBC establishes guideline supports, and facilitates research and teaching and ensures complian for USF faculty, staff, students olunteers, and visitors conducting research and the aching program is volving biohazardous materials and/or rDNA which are potentially pathogenic to hu0 Tc 0 Tw 1c t.u0 Tc.ote a

- c. A member from each affiliate (e.g., James A Haley Veterans Administration and H. Lee Moffitt Cancer Center
- 6.2.3 The IBC shall include:
 - a. one individual with expertise in human gene transfer principles and safety issues when research involving human subjects.
 - b. one individual with expertise in animal containment principles when research involving animals andbiohazardous materials d'or rDNA.
 - c. one individual with expertise in ant pathogen, and/or plant pest containment principles when esearch involving recombinant plants
- 6.2.4 IBC members and alternates are appointed by/the President for Research Innovation.
- 6.2.5 IBCthamedu <</MCID 8 .nou</MCID 12 >>-shall i 12 >>neii.(ha)4 (l)-2 (n (s)-1h4 -6r)3 3

- d. overseeing the conduct infspections, to ensure adherence the fall state and University regulations and IB licy for the use of biohazardous materials and/or rDNA at USF.
- e. monitoring federalstate and local regulatory trends and communicatingh to the IBC and responsible institutional representatives.
- f. conducting certain activities on behalf of **IBC** in support of the program (e.g., review/inspect individual facilities, biosafety manuals) and confirm compliance with NIH and/or CDC guidelines amd/USFIBC policy, procedures, and requirements.
- g. providing recommendations to the IBC on biosafety matters.
- h. acting as a liaison with University and Institutional Review Boards (IRBs), Institutional Animal Care and Use Committees (IACUC), Infection Control Units, and the Environmental HealandSafety(EHS)office.
- i. maintaining the official roster of IBC members
- j. schedulingBC meetings
- k. ensuring that all meeting materialse available to membersior to the scheduled meeting
- I. compiling and maintaing the minutes of IBC meetings in compliance with regulatory requirements.
- m. maintaining all IBC documentation and records.
- n. facilitating communication between investigators and
- o. tracking the progress of each protocol submitted to the IBC.
- p. utilizing the electronic platform (BiosafetyNet) for tracking purposes.
- q. serving as a resource for investigators on regulatory information, biosafety procedures, and practices of providing guidance regarding submission procedures.
- r. conducting laboratory inspections.
- s. proposing, reviewing, and revising IBC documents.
- t. drafting reports and correspondence on behalf of the IBC or IBC Chairperson.
- u. reviewing IBC applications.

Section 68 Reporting to NIH—Recombinant or Synthetic Nucleic Acids

- 6.8.1 The BSO on behalf of the C, shall report to the NIH OSP:
 - a. any significant problems with or violations of, and any significant research related accidents or illnesses to the **NDIS**Pwithin 30 days; unless the IBC determines that a report hadseady been filed by the PI
 - b. BSL-2 spills and accidents which result in *overt exposurtes* organisms containing rDNAare immediately reported to IBC and NIH OSP
 - c. BSL-3 spills and accidents which result in overt or potential exposutes organisms containing rDNAre immediately reported iBC and NIH OSP.

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- 6.8.2 The BSO or designeen behalf of the IBC, shall file an annual report with NIH OSPwhich includes:
 - a. a roster of all IBC members clearly indicating the Chairperson, contact person, BSOplant expert (if applicable), animal expert, human gene therapy expert or ad hocconsultant (if applicable).
 - b. biographical sketches of IBC members, including community members.

Section 69 Director of ResearchIntegrity & Compliance (RIC)

6.9.1 Is designated as overald rainistrator for the USFIBC and is responsible for ensuring that functions and operate within USF in compliance with albederal state, and local laws and regulations USF IBC policy and procedurate govern the safe use of biohazardous material so and NA in the conduct of research and and .004 Tc 0.0 -1.15 TD (6.) T6b.

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- 7.1.3 The PI must make an initial determination of the required levels of biological safety containmentandthe appropriate section of the NIH guidelines and the CDC/NIH BMBL, 6th edition
- 7.1.4 The PI must

- e. ensure equipmented lab spaces are thoroughly decontaminated prior to maintenance being **od**ucted.
- f. ensure that research materials are properly decontaminated before disposal.
- g. report anypotentialexposures. For information, see <u>Marposures, Incidents</u> and Near Misseweb page.
- h. comply with shipping requirements for biohazardous materials or rDNA.

Section 7.

- 8.2.4 Based on a risk assessment, for research involving human subjects, the USF IBC may consider **a**ontinuing review of six or twelve months.
- 8.2.5 Based on risk assessment and the NIH Guidelines, IBC oversight of human gene transfer protocols may conclude after the last participant is administered the final dose(s) of the product.
- 8.2.6 All amendments and continuing reviews that are submitted to the less ted to the gene transfer study or in support of gene transfer protocol must be submitted to the IBC for review This includes:
 - a. all Continuing Review Reports to theB.
 - b. all Change in Procedures/Investigator's brochure reported temporated tempo
 - c. repor(s) of significant problems, violations of the NIH Guidelines any significant researchelated accidents and illnesses.

Section 83 Use

RCDC #01019Revised:11/23

9.4.4 In handling human blood or blood products the IBC recommends that samples be handled with Standard

Section11.0 IBC Review and Approval Process

11.1 The IBC reviews all use of biohazardous materials and/or rDNtfivifies involving biohazardous materials must be revieTj natixd9 (a)49 (a)m5I(r)3ov()-10atixd9 I

- 11.9 The IBC protocol will be available to all members, and they have opportunity to discuss issues with the protocol ring the convened meeting.
- 11.10 The IBC may take one of the following actions
 - a. Approval Full approval for the protocols as described will be granted by the IBC if there are no outstanding biosafets ues. The PI may initiate research only aftereceiving anapproval letter
 - b. Requires Modifications to Secure Approval Additional informationor clarifications are delineated by the IBC he PI must respond by revising their protocolas requested by the IBC herevised protocolis reviewed by the primary reviewer Theresearch may be proved by the primary eviewer or the chairperson.
 - c. Deferred The IBC determines that a defersed y lacks sufficient information about the research procedures or safety praeticles complete risk assessment of the protocal not be performed. After revision, the deferred protocol must be reviewed at a subsequent meeting.
 - d. Disapproval The IBC has determined that the research proposal has substantive biosafety issuerotocolsthat are disapproved require submiPro[on aboo4 (t)su/2 (r)3 (e)4 fetfe [(A).Td 29

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- c. Change in Protocol Sponsor
- d. Change in Lab Location
- e. Change in Procedure
- f. Change in Personnel
- g. Changes that do not alter the overall risk of the study
- 12.3 The Amendments are reviewed and approxyethe IBC chairperson, a designated IBC member BSOthrough an expedited process. **The**iewer has the discretion request a full committee review.
- 12.4 When an amendment does not meet the criteria for Expedited Review (tem 12.2) then the full BC must review the proposed change(s) at a convened meeting. The IBC will determine whether the proposed amendnise substantive and requesturther information or a new IBC protocol.

Section13.0 BiosafetyLaboratory Inspections

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13.5 Grades of Deficiencies:

<u>Serious</u>: An immediate threat to human health, and/or security of biological agents and/or toxins and those that indicate a need for systemic improvements.

In selected cases, an Immediate Action Report will be submitted within 7 days to PI and IBC Chair following the inspection. Required corrective action may include ceasing work or addressing departures within a shortened period of time. Other departures will be reported in the routine inspection report sent to the PI within 7 days.

<u>Moderate</u>:Have the potential to be a threat to human, plant, or animal health, animal, or plant products, and/or security of biological agents and/or toxins.

If not corrected, such departures will impact the safety of humans and/or security of biological agents and/or toxins and increase the risk of more serious departures. A routine inspection report will be sent to the PI within 7 days of the inspection.

biological agents and/or toxins but are not consistent with safe and secure standards of practice. -2 (he2 (on.)18.77 0 Td)4 (ys)-1 (c)4 (t)-2 (e)4 (11 >> BDC 12 0 (

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Section 14.2 Registration with the USF IBC for Use of Select Agents

14.2.1 A PI planning to work with any Select Agent/Toxin material must also submit a

Section 15.3 Office of Sponsored Research

15.3.1 The Biosafety Office makesailable to the Office of Sponsored Research approval letters of all studies approved by the IBC.

Section 16.0 Biosafety Education and Training

Section 16.1 Persons Required to Complete Training

- 16.1.1 Training and education microbiological techniques is required for anyone working with biohazardous materials and/or rDNABSL-2 or who works in a laboratory where these materials are used/or stored.
 - a. The Plis responsible foensuring personnel are properly trained in the laboratory regarding microbiological techniques.
 - b. The BiosafetyProgramprovides the required education in biosafety principles and practices for all personnel directly involved in the conduct of research with biohazardous materials and/or rDNA or who works in a laboratory where these materials are usedd/or stored.

Section 16.2 Training Requirements

- 16.2.1 There are three types of Biosafetaining requirements:
 - a. Core Course The Biosafety Principles and Practicesurse. All persons involved in the conduct of research with biohazardous materials and/or rDNA must complete the core course requirements before they directly handle the biological material
 - b. Continuing Education Triennialcompletion of an IBC approved continuing education course by ptrsonnel involved in all IBC approved studies.
 - c. Special TopicsC-11 (2 (orET BTi)Span (e)4 (d.65Td ()Tj)-gj EMo)-4 (p)-8 (i)-6 12ild ir ogicalrlecialpleourd(.004i [(c)4 (om)2 (nvoy-(pl)-2 (pe)2 (orET /Artifact B (or)-0-4 rg equi T* [y, (N)-8 -6 (s)- 226Smpd [(lia)-6 n

- 18.3 The IBC reports the findings of its deliberations to the PI and the Vice President of Research.
- 18.4 If the IBC suspends an activity involving biological materials and/or r DINA PI will be informed in writing of the suspension, ctsnditions, and the expectations which need to be met before activities me.
- The IBC may vote to suspend or terminate approval of the protocol been associated with noncompliance regarding applicable regulatory requirements and/or IBC policy.

Section 20.0 Policy Review

20.1 This policy will be reviewed annually.

APPENDIX I - HHS & USDA Regulated Select Agentand Toxins

HHS Select Agents and Toxins

- 1. Abrin [6]
- 2. Bacillus cereusBiovar anthracis[1]
- 3. Botulinum neurotoxin\$1][6]
- 4. Botulinum neurotoxin producing species of Clostridium
- 5. Conotoxins (Short, paralytic alpha conotoxins containing the following amino acid sequence *CCX2PACGX3X4X5X6CX7) [6]
- 6. Coxiella burnetii
- 7. CrimeanCongo haemorrhagic fever virus
- 8. Diacetoxyscirpeno[6]
- 9. Eastern Equine Encephalitis vir 48[5]
- 10. Ebola virus[1]
- 11. Francisella tularensi§1]
- 12. Lassa fever virus
- 13. Lujo virus
- 14. Marburg virus[1]
- 15. Mpox virus [4][9]
- 16. Reconstructed replication competent forms of the 1918 pandemic influenza virus

- 32. Kyasanur Forest disease virtis
- 33. Omsk hemorrhagic fever virus
- 34. Variola major virus (Smallpox virus)]
- 35. Variola minor virus (Alastrim]1]
- 36. Yersinia pesti\$1]

Overlap Select Agents and Toxins

- 37. Bacillus anthracis[1]
- 38. Bacillus anthracis Pasteur strain
- 39. Brucella abortus
- 40. Brucella melitensis
- 41. Brucella suis
- 42. Burkholderia malle[1]
- 43. Burkholderia pseudomallei]
- 44. Hendra virus
- 45. Nipah virus
- 46. Rift Valley fever virus
- 47. Venezuelan equine encephalitis vi[4\\$5][8]

USDA Veterinary Services (VS) Select Agents and Toxins

- 48. African horse sickness virus
- 49. African swine fever virus
- 50. Avian influenza virus[4]
- 51. Classical swine fever virus
- 52. Foot-and-mouth disease virus [5]
- 53. Goat pox virus
- 54. Lumpy skin disease virus
- 55. Mycoplasma capricolur[14]
- 56. Mycoplasma mycoides
- 57. Newcastle disease virus [4]
- 58. Peste des petits ruminants virus
- 59. Rinderpest viru 11
- 60. Sheep pox virus
- 61. Swine vesicular disease vir

USDA <</MCI16 (n)-4 (e v)-4 (es(d)2 e0 12 2T B12 2T B12 2T B12 BDC 0es(d)2 e0 12 2T

[1] Denotes Tier 1 Agent

[2] C = Cysteine residues are all present as disulfides, with the 1st and 3rd Cysteine, and the 2nd and 4th Cysteine forming specific disulfide bridges; The consensus sequence includes known toxins a-MI and aGI (shown above) as well as a-GIA, Ac1.1aCralA,