

INSTITUTIONAL BIOSAFETY COMMITTEE MEETING
December 18, 2019
3 PM, Plant Biotechnology Bldg., Room 410

MEMBERS PRESENT: IBC Chair, David White; Vice Chair, Elizabeth Fozo (phone); Marc Caldwell, Lori Cole, Paul Dalhaimer, George Dizikes, Reza Hajimorad, Brittany Isabell, Reggie Millwood, Jae Park

Ex-Officio – Linda Hamilton, Ahmad Mitoubssi, Scott Moser, Brian Ranger, Jessica Woofter

MEMBERS ABSENT: Doris D'Souza, Melissa Kennedy, Jun Lin, Deidra Mountain, Ling Zhao

OTHERS PRESENT: James Cantu, Dr. Sarah Pruett, Marsha Smith

Opening:

The IBC Chair called the meeting to order at 2:59 PM. The minutes of October 30, 2019, were reviewed and approved. There were three abstentions.

Full Member Review IBC Registrations:

#IBC-13-411-1 (Jain Nitin) Recombinant DNA Registration, III-E, 3-year rewrite

Dr. Nitin's research will involve cloning of human p450 genes, cyp2c9 and cyp3a4 into a pcWORI vector. The genes have been synthesized artificially using a commercial service. The recombinant DNA will then be used to express protein in a BL-21, XL-1 blue or DH5alpha E. coli expression system. The expressed proteins will be purified using standard chromatographic approaches and then used further for structure-function studies using NMR spectroscopy. The containment level was established at BSL-1. The committee voted to approve the registration pending the addition of general information regarding P450 is a cytochrome that oxidizes steroids, fatty acids, and xenobiotics in the nontechnical summary as well as the addition of the liquid disinfectant in Question 9.0 that will be used for the project.

#IBC-17-448-2 (Jessica Budke) Recombinant DNA Registration, III-E, 3-year rewrite

Dr. Budke's research involves the generation of 2-fluoadenine (2-FA) resistant Physcomitrella patens (spreading earth moss). This will be achieved by utilizing the new genetic engineering technique CRISPR-Cas9. If the CRISPR-Cas9 genome editing strategy is successful in P. patens, then it may be used in future genetic studies. The containment level was established at BSL-1. The committee voted to approve the registration pending the addition of a statement in the technical summary that all materials will be contained in a growth chamber and the removal of the autoclave from Question 10.2.

Designated Member Review IBC Registrations: None

Old Business:

Administrative Report

- i. *Contingencies*
Following up on the October 30, 2019 IBC Meeting, Dr. Franc Barrera's registration (#13-409-2) was corrected his registration to include a statement in the nontechnical summary clarifying the purpose and scope of the project; correct the technical summary to include information regarding the study of peptide targeting to the tumor; the addition of the culture room location and biosafety level; and the addition of safety glasses and goggles to his listed PPE.
- ii. *Administrative Approvals*
Dr. Guoxun Chen's amendment to registration (#06-292-2) was administratively approved by the IBC Chair to include the addition of vectors (pBABEpuro, pFlag CMV) and insert gene (mCAR-TVV).
- iii. *Administrative Terminations*
None.
- iv. *Administrative Exemptions:*
None.
- v. *Accidents, Injuries/Exposures:*
None.
- vi. *Laboratory Report (Hamilton)*
None.
- vii. *iMedRIS Update, Manual Reviews, & System Orientation (Woofster)*
None

EHS Reorganization Update

Jessica notified the committee that EH&S is working on updating the website. Brian notified the committee that the Biosafety Listserv has been renamed the Lab Safety Listserv and will include labs with chemical hazards.

Onsite Systems

Marsha Smith and James Cantu were present to provide the committee with information regarding Onsite Systems software program as an option for replacing iMedRIS.

New Business:

IBC Annual Report

Brian provided the committee with an annual report including average review times for registration by category and campus as well as a summary of training and other items completed on the committee's behalf.

Central Alarm

Brian notified the committee about issues with Central Alarm and leaving doors unlocked on the weekends based on Ad Astra reservations. Brian is working with Central Alarm to resolve the issue and notified them that the doors should be locked at all times.

The meeting was adjourned at 4:27 PM. The next meeting scheduled for February 19, 2020 from 3-5 pm in Plant Biotechnology Room 410. A zoom link will also be sent out to committee members.