

IBC Meeting Minutes

06/24/2024

1:00 Southern Writers Room, ZOOM

I. Call to Order: 1:09 PM

II. Roll Call

1. Members Present: Peggy Kovach, David Giles, Darrel McGraw, Jennifer Cunningham, Bradley Harris
2. Members Absent: Jose Barbosa, Pam Riggs-Gelasco, Rardy Spratt
3. Ex officio: Alexa McClellan, Cheryl Murphy, Bob Jackson

III. Approval of May minutes

1. Motion to approve: Murphy. Approved: All, Opposed: 0, Abstentions: 2

IV. Old Business

1. **Approved registration modifications, administrative reviews, annual updates**
 - a) 23-20 – Harris – Modification to add personal conditionally approved (dependent on training completion) 05/22/2024
 - b) 23-12 23-12, 23-13 – Giles – Annual Updates Approved 05/24/24
2. **Inspections conducted**
 - a) Harris Lab Inspection EMCS 441 Scheduled 06/26/24
3. **Updates on registrations in progress**
 - a) 24-01 – Barbosa – Contingencies satisfied and approved 05/22/24
 - b) 24-03 – Giles – Contingencies satisfied and approved 05/24/24
 - c) 24-02 – Bathi – 05/15 insufficient revisions submitted. Meeting to be scheduled.
4. **Updates on old business items**
 - a) CITI Training of Members (updated 06/17/2024)
 1. Outstanding: Rardy Spratt, Bob Jackson, Pam Riggs-Gelasco, Jennifer Cunningham

V. New Business –

1. **Committee Changes:** Ben Stein and Michael Dabney have left UTC and are no longer serving on the IBC. Alexa McClellan to leave UTC June 30th.
2. **New Registration(s):**
 - a) **#24-04, Dr. Wang-Yong Yang, “Study of selective binders targeting single-stranded nucleic acid repeats”**

- b) CITI Training Status: Dr. Wang-Yong Yang (Completed), John David Gidcumb (Completed), Grace Tang (Not completed)
- c) Containment conditions are not specified because not using any biological agents
- d) The researcher is applying for Exemption under the NIH Guidelines under Sections III-F-1 and III-F2.
- e) The researcher will investigate whether the small molecules previously selected can bind to the DNA CGG/CCG repeats and induce DNA contraction or expansion. This study aims to understand the mechanism of DNA repeat expansion, which is responsible for causing incurable human degenerative diseases such as Fragile X syndrome (FXS), and to explore potential treatment options. The researcher will also examine how the previously selected small molecules selectively bind to the target toxic RNA, r(AUUCU) repeats, which cause Spinocerebellar ataxia type 10 (SCA10), and the manner in which they bind. This research will contribute to the development of improved selective binders.
- f) To study the effect of binders on DNA replication, the researcher will incubate the oligonucleotide (60mer or 146mer) including the repeats with the binder molecule, add polymerases and primers to the solution, increase oligonucleotide purity utilizing polyacrylamide gel purification (PAGE), and visualize the nucleic acids using SYBR Gold stain. To determine binding affinity, the solution will be prepared with the binder with various concentrations of oligonucleotides in 384 well plate, and then the fluorescence of the sample will be measured using a microplate reader.
- g) Additional committee concerns/comments
 - 1. The committee agrees that the scope of this project qualifies for exemption
 - 2. However, more description and background information is required in the purpose/goals and methodology sections.
- h) Vote
 - 1. Motion to approve for exemption contingent upon providing additional details on background and methodology: Kovach. 2nd: Giles. All in favor: All. Opposed: none. Abstention: 2

3. Additional items for discussion

- a) Shipping of Biohazardous Goods
 - 1. Bob Jackson has screenshots of the training requirements of mail room staff and will share these with ORI.
- b) ORI has updated the registration form to include new NIH Guidelines language and to add a question regarding the intention to ship biohazardous goods. This will be sent out to members for review and comment prior to being

posted to the website.

VI. Next Meeting – July 22

VII. Adjournment – 1:28 PM