

## Biosafety Committee Notes

February 13, 2017

Meeting called to order 10:00 a.m.

Present: Amy Sprowles, Patricia Siering, David Baston, Jeffery Schineller, Michelle Dostal, John Steele, Steven Karp, Sabrina Zink, Emily Benvie

Absent: Richard Brown, Shannon Townsend

- 10:00 am
  - Meeting began
  - Agenda passed out
- 10:02 am
  - Schineller brings up violation about FERPA
  - Suggests blocks of time where issues with named students stays out of “Minutes”
  - Maybe redact them
  - Dostal suggests saying “don’t post this on ‘Minutes’”
- 10:04 am
  - Dostal brings up discussion on Zhong’s endosymbiont
- 10:05 am
  - Vote to approve endosymbiont BUA
  - Approved – “Motion so carried”
- 10:06 am
  - Next up is Zhong’s BSL level 2 *R. parkeri*
  - Baston brings up Zhong’s collaborators to see how they’re working on it
  - Dostal asks if BSL 3 is doable at HSU
  - Zink responds yes, when it’s BSL 2+ that means, means level 3 work practices which for the most part is more PPE
- 10:07 am
  - Dostal asks if anyone makes a motion to accept *parkeri* BUA
  - Approved
  - Gahtan’s BUA with zebrafish
  - Everyone got a chance to look at
  - Dostal - “Doesn’t seem appropriate... wasn’t filled out very much”
  - Zink wasn’t aware that purchased transgenic organisms need to be submitted to IBC review
  - Needs to change BUA to include that activity, and have him resubmit
  - Doesn’t want to hold up Gahtan’s MTA, so his fish can grow
  - Only issue is making sure they’re “rendered biologically inert before they’re disposed of”
- 10:09 am
  - Steele brings up “IACUC”
  - In terms of the way they’re euthanized

- Baston asks if he has IACUC
- He has a standing IACUC for general colony, and a project specific one that will be submitted
- Sprowles agrees it's not complete BUA, but it's BSL 1
- Steele brings up no inherent safety issue, just BPA and BPB
- But it's not clear how they will be treated
- 10:10 am
  - Nothing harmful with humans
  - Zink brings up that containment issues are subject to NIH guidelines
    - Modified organisms can't get out into the wild
    - Reiterates that IBC committee review requirement and considerations about implications of proposed research isn't only about "biosafety" relating to humans.
  - Steele asks for provisional approval pending resubmission with more information with euthanasia and disposal
- 10:11 am
  - Karp brings up requiring assurance that fish won't be introduced to general population
  - Zink states that IBC reviews all modified organisms that could get into the wild
- 10:12 am
  - Groups agrees for provisional approval
- 10:13 am
  - Dostal – next on agenda is Steel's HEK plasmids BUA review
  - Zink's question – standards for working with human cell lines are always BSL 2 unless it's screened for certain pathogens per OSHA, and are very specific about that screening entails and how it is documented.
  - Steels says that both cell lines were screened from maternal donor
  - Asks if Amy knows
  - Sprowles has documentation that there's nothing in HEK293t line
  - Steele couldn't find information from Thermo
  - It is suggested that Dr. Steel continue to try and get documentation of pathogen screening of the ReN cells.
- 10:15 am
  - Sprowles can ask students who made cell lines/Michelle at Stanford
  - Steele - Difficult to find documentation from cell line made 25 years ago, but he will try
  - Generally, BSL 2 used for containment practices anyway
- 10:16 am
  - Sprowles indicates that because they have been used for so many years, by so many institutions without incident it is a general assumption that they are pathogen free and may be why it's so hard to find actual documentation of the initial screening.
  - Steele is happy to use BSL 2 practices
- 10:17 am
  - Zink - Approval pending until further notice, BSL 2 for cell lines
  - BSL 1 for plasmids

- 10:18 am
  - No further questions
  - Dostal calls for vote to approve
  - Protocol approved for John
- 10:19 am
  - Steele asks up if he should maintain list of students
  - Steele will put together list of which training has been covered and which students
- 10:20 am
  - Spowles brings up 324 lab space
  - Will be used for Steele's individual lab space
  - Karp brings up difference between BSL of cell lines vs space
  - Spowles states that her cell lines, HEK293t, are BSL 1
  - Cell line is what changes safety level
  - Siering asks if Steele's cell line is BSL 1 or 2
  - Steele suggests treating BSL 2 until documentation can be provided to prove otherwise
- 10:22 am
  - Siering asks how many generations since taken from human determines BSL
  - Steele – "It's state by state..."
  - Makes case that because REN and HEK cell lines have been immortalized, they're probably BSL 1, but will treat as BSL 2 due to work practices
- 10:23 am
  - Steele brings up iPSC line
  - They were primary cell culture, and then transformed into iPSCs by transfection of transcription factors, passaged, and subcloned
  - Recommendation is probably BSL 2
- 10:24 am
  - Spowles brings up that BSL is level of pathogenicity, not clonal distance
  - Likelihood of humans contracting anything from iPSC line is small
  - More of a precautionary principle
  - No documentation of anyone contracting anything from cell line that was dutifully screened
- 10:26 am
  - Siering and Steele – Could just amend Amy's into Steele's
  - Recording ended abruptly
- 10:26-11 am
  - All documentation regarding the iPSC cell lines are at UCSD since it was developed there.
  - Additional laboratory locations where work is being done will need to be inspected and approved. Steele's proposed BSL2 location is not complete; current 3<sup>rd</sup> floor lab needs be run through the BSL2 lab checklist.
  - CITI training should be required by anyone submitting a BUA. General Biosafety training for everyone so they understand the requirements and guidelines relating to Biosafety. Additional training will depend on the nature of the BUA.

- Committee members should all take the IBC training. It may be a good idea to make a list of which training is required/advisable for the following: Biosafety Officer, PI's, students, IBC members.
- The BSO(Sabrina) should determine and assign required training.
- Who should keep training documentation? Should be kept by PI and also a copy in Sabrina's office
- Sprowles question re: students she's overseeing doing protocol approved on Steele's BUA. i.e. it's really the protocols that are approved, even though they are specific to a PI. Zink suggests being a Co-PI on a BUA when that will be the case
- Minor amendments that don't alter the content of the BUA do not need committee approval
- Patty's work and classwork in general that may trigger NIH. Patty thinks her work would be exempt, but there may be other classes that trigger oversight. How do we go about this? Do we want everyone submitting BUAs for everything? That may be a lot of work for committee...
- Steel suggests we should not just assume that they are exempt, committee should make that decision and then perhaps we can create a list of protocols, activities etc... that are exempt from review
- This documents committee has seen them
- Scheduling of the next meeting. John will be gone mid-March through mid-May. The next meeting is tentatively scheduled for the end of April.