

IBC Meeting Agenda
5/14/2026
3:00pm TEAMS

Member Attendees: Rachel R. Spurbeck, Jacqueline Grible, Addie Moore, Kelly West, John Keeny, Fred Harrison, Craig Bartling, Charles DeSanti, Yun Li, Caitlyn Heil, Andrea McCue, Gloria Sivko, Gary Carlin, Ray Henson, & Manju Kulkarni

Guest Attendees: Thomas Mallot, Brad Heater

I. Application Reviews

Application: FY26-15

Study title: Systems Integrating Innovative Solutions To Enable Rapid (SInISTER) Detection

PI: Brad Heater

- **PI and laboratory staff performing the research have been appropriately trained in the safe conduct of the research:** Y
- **Applicable section of the NIH Guidelines:** Section-III-D-6
- **BSL-#** 2
- **Agent characteristics:** engineered enzymes and molecular switches to serve as sensors.
- **Types of manipulations planned:** recombination and expression
- **Source(s) of the nucleic sequences (e.g., species):** basidiomycete PM1
Abrus precatorius, Achromobacter xylosoxidans, Aequorea victoria, Aspergillus fumigatus Af293, Aspergillus niger, Aspergillus oryzae, Bacillus licheniformis, Bacillus mojavensis, Bacillus pumilus, Bacillus pumilus ATCC 7061, Bacillus subtilis cjp3, Bacillus vallismortis, bacteriophage T4, Bordetella bronchiseptica, Branchiostoma lanceolatum, Calypte anna, Camelus, Chromohalobacter sp. 560, Citrobacter freundii, Cobetia amphilecti, Coriolopsis gallica, Coriolopsis troglitii, Cyprinodon variegatus, Cytaeis uchidae, Danio rerio, Discosoma sp, human, soybean, avian reovirus S1133, Entacmaea quadricolor, Enterobacter hormaechei, Escherichia coli, Euprosthenois australis, Gadus morhua, Gallus gallus, Gasterosteus aculeatus aculeatus, Geothermobacter hydrogenophilus, Halalkalibacter wakoensis, Hepatitis C Viruses, Human rhinovirus, Lama glama, Montipora monasteriata, Mus musculus, Nostoc punctiforme, Oncorhynchus mykiss, Oplophorus gracilirostris, Paenibacillus glucanolyticus, Pan paniscus, Pelobates fuscus, Phytophthora capsici, Pongo pygmaeus, Pseudonaja textilis, Psychrobacter sp., Pyrococcus abyssi, Pyrococcus furiosus, Saccharomyces cerevisiae, Schistosoma japonicum, Shewanella sp.T3-3, Staphylococcus aureus, Stenotrophomonas maltophilia, Streptomyces clavuligerus, Synthetic gene, Taeniopygia guttata, Thermotoga maritima, Thermus sp. 2.9, Thermus thermophilus, Thioalkalivibrio, Tobacco Etch Virus, Tobacco vein mottling virus, Trametes cinnabarina, Trametes polyzona, Trametes pubescens, Trametes sp. 48424, Trametes sp. AH28-2, Trametes versicolor, uncultured bacterium, Verrillifungia concinna, Vibrio splendidus, Vicugna pacos, Vreelandella arctica, and Zootoca vivipara
- **Nature of the nucleic acid sequences (e.g., structural gene, oncogene):** structural genes

- **Host(s) and vector(s) to be used:**

Escherichia coli K-12, *Pichia pastoris*, and *Saccharomyces cerevisiae*

- **Transgene expression:** yes

Protein function: luminescence, color change, or light production in response to a signal, inactive abrin surrogate, binders, enzymes that cleave substrates

Move to Approve: Charles DeSanti (move to approve with modifications)

2nd: Ray Henson

All in Favor: Approved with modifications to include language about how the surrogate is inactivated, how the protein purification will be verified (removal of all live organisms) prior to any utilization to environmental release of protein

Application: FY26-16

Study title: Systems Integrating Innovative Solutions To Enable Rapid (SInISTER) Detection

PI: Brad Heater

- **PI and laboratory staff performing the research have been appropriately trained in the safe conduct of the research:** Y

- **Applicable section of the NIH Guidelines:** Section- III-D-6

- **BSL-#** 2

- **Agent characteristics:** engineered enzymes and molecular switches to serve as sensors.

- **Types of manipulations planned:** recombination and expression

- **Source(s) of the nucleic sequences (e.g., species):** *Achromobacter xylosoxidans*, *Aequorea victoria*, *Aspergillus fumigatus* Af293, *Aspergillus niger*, *Aspergillus oryzae*, *Avian reovirus* S1133, *Bacillus licheniformis*, *Bacillus mojavenensis*, *Bacillus pumilus*, *Bacillus subtilis* cjp3, *Bacillus vallismortis*, *basidiomycete* PM1, *Bordetella bronchiseptica*, *Branchiostoma lanceolatum*, *Calypte anna*, *Camelus*, *Chromohalobacter* sp. 560, *Citrobacter freundii*, *Corioloopsis gallica*, *Corioloopsis trogii*, *Cyprinodon variegatus*, *Cytaeis uchidae*, *Danio rerio*, *Discosoma* sp, *Entacmaea quadricolor*, *Enterobacter hormaechei*, *Escherichia coli*, *Euprosthenops australi*, *Gadus morhua*, *Gallus gallus*, *Gasterosteus aculeatus aculeatus*, *Geothermobacter hydrogeniphilus*, *Halalkalibacter wakoensis*, *Hepatitis C Viruses*, *Human*, *Human rhinovirus*, *Lama glama*, *Montipora monasteriata*, *Mus musculus*, *Nostoc punctiforme*, *Oncorhynchus mykiss*, *Oplophorus gracilirostris*, *Paenibacillus glucanolyticus*, *Pelobates fuscus*, *Phytophthora capsici*, *Pseudonaja textilis*, *Psychrobacter* sp., *Pyrococcus abyssi*, *Pyrococcus furiosus*, *Saccharomyces cerevisiae*, *soybean*, *S. aureus*, *Stenotrophomonas maltophilia*, *Streptomyces clavuligerus*, *Synthetic genes*, *Taeniopygia guttata*, *Thermotoga maritima*, *Thermus* sp. 2.9, *Thermus thermophilus*, *Thioalkalivibrio*, *Tobacco Etch Virus*, *Tobacco vein mottling virus*, *Trametes cinnabarina*, *Trametes polyzona*, *Trametes pubescens*, *Trametes* sp. 48424, *Trametes* sp. AH28-2, *Trametes versicolor*, *uncultured bacterium*, *Verrillifungia concinna*, *Vicugna pacos*, *Vreelandella arctica*, and *Zootoca vivipara*.

- **Nature of the nucleic acid sequences (e.g., structural gene, oncogene):** structural gene

- **Host(s) and vector(s) to be used:**

Escherichia coli K-12, *Pichia pastoris*, and *Saccharomyces cerevisiae*

- **Transgene expression:** yes

Protein function: luminescence, color change, or light production in response to a signal, inactive staphylococcus enterotoxin B surrogate, binders, enzymes that cleave substrates

Move to Approve: Ray Henson (move to approve with modifications)

2nd: Caitlyn Heil

All in Favor: Approved with modifications to include language about how the surrogate is inactivated, how the protein purification will be verified (removal of all live organisms) prior to any utilization to environmental release of protein

Application: FY25-12-A5

Study title: Design and characterization of a noninfectious linear enterovirus

PI: Jacqueline Grible

- **PI and laboratory staff performing the research have been appropriately trained in the safe conduct of the research:** Y

- **Applicable section of the NIH Guidelines:** Section- III-E-1

- **BSL-#** 2

- **Agent characteristics:** noninfectious but replicon-competent EV71 derivative

- **Changes from original application:** addition of new cell line model: 4T1-luc and introduction of circOV into BALB/c mice.

- **Source(s) of the nucleic sequences (e.g., species):** enterovirus 71

- **Nature of the nucleic acid sequences (e.g., structural gene, oncogene):** viral genome without capsid genes, rendering virus noninfectious. Cell line with luciferase activity.

- **Host(s) and vector(s) to be used:**

Previously approved: Viral vector, HEK293T, MCF10A, MCF12A, MDA-MB-231 MCF7, T47D, MDA-MB-468, HCC1937, JW23.3 mSC1970C.3, sNF96.2

new to the amendment: 4T1-luc, and female BALB/c mice

- **Transgene expression:** yes

Protein function: develop syngeneic allografts with 4T1-luc model and assess *in vivo* therapeutic utility against primary tumors modeling triple-negative breast cancer

Move to Approve: Carrie Howland move to approve with addition of HAs

2nd: Addie Moore

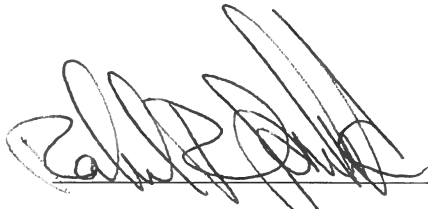
All in Favor: Approved

II. Old Business:

- N/A

III. New Business (review of incidents, inspections/oversight, IBC training, or additional topics):

- Meeting minutes from the last meeting on 4/9/2026
 - Move to approve: Caitlyn
 - All in Favor
- Meeting adjourned at 4:04 pm



Rachel Spurbeck, IBC Chair or



Date

Caitlyn Heil, IBC Co-Chair

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