

Institution	Oklahoma State University - Center for Health Sciences
Meeting Date	Thursday, August 21 2025
Meeting Time	10:00 AM
Meeting Type	Hybrid Meeting

IBC Members Present	Name	Role	Attendance
	Dr. Gerwald Koehler	Committee Chair	Present
	Dr. I-Hsiu (George) Huang	Scientific Member	Present
	Dr. Sue Katz Amburn	Non-affiliated Member	Present
	Dr. Crystal (Niki) Johnson	Scientific Member	Present
	William (BJ) Reddig	Lab representative	Present
	Dr. Fang (Fiona) Liu	Non-affiliated member	Absent
	Dr. David Wallace	Animal Expert	Present
	Dr. Vikram Gujar	Alternate Member - Affiliated Scientist	Present, did not vote at this meeting
Quorum	Quorum is met. The IBC has six (6) voting members present, and four (4) voting members are required to conduct business.		

Others in Attendance	Name	Affiliation	Title
	Kadin Falkenstein	Oklahoma State University - Center for Health Sciences	Research Compliance Coordinator, Biosafety Officer

Call to Order	The IBC Chair called this meeting to order at 10:03 AM.		
Conflicts of Interest	The IBC Chair asked all members present to identify any conflicts of interest with the materials that are to be reviewed. No conflicts of interest were identified.		
Discussion of previous minutes	No discussion of the minutes was had; BJ Reddig made the motion to approve, and Dr. Johnson seconded.		
Review and Approval of previous meeting minutes	Date of previous meeting Thursday, July 17 2025	Motion Approve as written	Votes; for/against/abstain 6/0/0

Review of Prior Business	Business	Review and Discussion
	Report of pending/outstanding protocol(s)	Kadin Falkensten noted that one protocol amendment was pending review, and described the protocol to the committee. It was determined that this review could be completed electronically. Additionally, Dr. Koehler noted that he will have two renewals soon, and Dr. Gujar also noted that he will be submitting an amendment soon.

New IBC Registrations and Amendments for Review		
Review of Amendment to IBC-00001212		
PI Name(s)	Dr. Swarup Mitra Dr. Malabika Maulik	
Registration Title/Number	Understanding the role of SUMOylation on protein functionality.	IBC-00001212
Project Overview	<p>This project aims to investigate how SUMOylation, a post-translational modification process involving the conjugation of Small Ubiquitin-like Modifier (SUMO) proteins to target substrates, regulates protein stability and cellular signaling. The study will employ mammalian cell lines (human HEK293 and rat B35) as the primary experimental hosts, which will be maintained under standard Biosafety Level 1 (BSL-1) containment conditions. Recombinant DNA constructs encoding SUMO-conjugating enzyme Ubc9 will be used to manipulate SUMOylation pathways in vitro. These plasmids are non-replicative and will be propagated using E. coli DH5α host strains under BSL-1 conditions. The recombinant sequences do not encode any oncogenes, toxins, or virulence factors, and none of the experimental constructs are capable of autonomous replication or viral packaging. Nucleic acid modifications are limited to site-directed mutagenesis to alter SUMOylation consensus motifs, and all sequences are derived from human or murine cDNA sources with published annotations (supporting literature and unpublished laboratory data available). Experimental manipulations include transient transfections, immunoblotting, immunoprecipitation, and confocal microscopy, as well as in vivo validation of SUMO-modified proteins. All recombinant work will be performed under BSL-1 containment, following institutional biosafety and waste decontamination procedures. The agents involved have no known pathogenicity, antibiotic resistance, or environmental persistence risks. This research will contribute to understanding how SUMO modification influences protein function in neural and cellular systems.</p>	
NIH Guidelines Section	III-F-1, App C-I, App C-II	
Risk Assessment and	Risk Assessment: Generation of splashes, sprays, or aerosols	

Discussion	Discussion: No additional discussion was held regarding the risk assessment.		
Training	All personnel listed on this application have completed the minimum required lab safety training courses, including Lab Chemical safety, Bloodborne Pathogens training, and Laboratory Biosafety training. Additionally, all personnel have documented in-lab training for specific procedures that are carried out in each individual lab.		
Additional Training	No additional training requirements were outlined.		
Occupational Health Representative Review (if applicable)	No additional occupational health concerns were noted.		
Biosafety Level Assignment	Biosafety Level:	2	
	Additional Discussion or notes:	No additional discussion was had regarding the biosafety level.	
IBC Vote	Motion:	Approve, pending changes outlined below	
		1st: Dr. Johnson	2nd: BJ Reddig
	Votes, for/against/abstain/recused:	6/0/0/0	
	Notes:	<p>The committee voted to approve this protocol after the list of changes below was made to the protocol. The changes will be reviewed by the Biosafety Officer to ensure their accuracy before the final approval notification is sent.</p> <p>The following revisions were requested:</p>	

	<p>1) In the Human/NHP > Hazardous Procedures section, please add the "Sprays and Aerosols from Centrifugation" procedure to this section as well.</p> <p>2) In the "Facilities" section, for E444, please check the "HEK-293" procedure in the agents list.</p> <p>3) In the Personnel section, please verify that Mason will be working only on the outlined items.</p> <p>4) In the Personnel section, please ensure that all personnel have their appropriate activities selected, as some appear to have only a few activities selected while others have none selected.</p>
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Review of IBC-00001237 - New Application		
PI Name(s)	Dr. Subhas Das	
Registration Title/Number	Epigenetic Regulation in Pleural Inflammation	IBC-00001237
Project Overview	<p>Through previous studies, the Das lab has found that Glutaminase 1 (GLS1) is a novel biomarker for colon inflammation. To confirm whether GLS1 is a specific marker for colon inflammation, or it is pan-inflammatory marker for other inflammation as well, we wanted to investigate other inflammatory models. For this study a carrageenan-induced pleurisy model leading to pleural inflammation will be studied. This study will involve the use of A549 Lung Carcinoma cells, Lewis Lung carcinoma cells, and tissues harvested from Sprague-Dawley rats post-mortem. A549 and Lewis lung carcinomas are from established, ATCC-purchased cell lines and do not have any characteristics of note. No nucleic acid sequences, aside from those found naturally in the listed cell lines and rats, will be used in this experiment. No host/vector systems will be used in this project, and no modifications will be made to any nucleic acid sequences. This project involves the experimental manipulations of cell culture and working with animals and therefore will have a proposed Biosafety Level of BL-2. This project seeks to establish DNA methylation of GLS gene in acute pleural inflammation, determine if blocking DNA methylation will resolve the pleural inflammation in WT and GLS+/- rats, identify aberrant DNA methylation of GLS during malignant pleural inflammation using tumor cells, and understand the role of ER stress and Unfolded Protein Response (UPR) during pleural inflammation and whether using UPR inhibitors alleviate pleural inhibition.</p>	
NIH Guidelines Section	App. C-VII, III-D-4-b7	

	<p>1) In the Whole Animal Work > Biohazard Procedure section, please expand on how the GLS rats were generated, are the knockout? Please also provide more detail about the GLS rodents.</p> <p>2) In the Human/NHP > Hazardous Procedures section, will any centrifugation occur on this protocol? If so, please add the "Sprays and Aerosols from Centrifugation" procedure.</p> <p>3) In the Personnel section, is Christy still active in this lab? Please remove them if not.</p> <p>4) In the Personnel section, are other personnel working on this project besides yourself and Christy? Please add them if so.</p> <p>5) In the Personnel section, please provide an actual description of the experience for each person listed as it relates to the project, not just a number referencing years of experience such as "25"</p> <p>6) In the Methodology section, please remove the extra line breaks in your experimental description so that the full description can adequately be displayed within the provided text box.</p>
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New Business	Topic	Discussion
	Review of IBC bylaws	Dr. Koehler lead the committee through a discussion of the IBC bylaws, and the members suggested edits to the section regarding membership durations. The committee discussed a few possible revisions to be made, but it was determined that it would be best if all members individually reviewed the bylaws, made revisions, and compared such revisions at the September meeting.

Additional/Other Business	Review of IBC Minutes format	Kadin Falkensten brough up the revised minutes format to more directly outline specific items. The IBC members gave their feedback, and will review the minutes while comparing them to the NIH-OSP guidelines.
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Review of Incidents	No incidents were reported or discused at this meeting.	
Inspections/Ongoing Oversight	No ongoing inspeections or oversight were discussed at this meeting.	
IBC Training	No training occurred at this meeting.	
Public Comments	No public comments were made at this meeting.	
Adjournment	<p>The IBC Chair moved to adjourn the meeting at 10:57 AM.</p> <p>The next IBC meeting is scheduled for Thursday, September 18 2025.</p>	