Institutional Biosafety Committee Minutes

Date: Wednesday, July 16, 2025

Time: 9:31 AM

Location: Zoom Meeting

MEMBERS IN ATTENDANCE	MEMBERS ABSENT	STAFF
Brown, Anthony	Busch, Robert H	Gonzalez Russi, Sabrina
Carroll, Ann M.	Gross, Steven S.	Lejb, Katarzyna
Finkernagel, Scott W.	Schnappinger, Dirk	
Kaminsky, Stephen M.		
Lieggi, Christine		
McGuinn, Catherine		
Otero, Miguel		
Repik, Gabrielle		
Wagner, John A.		
Willis, Dianna E.		

In the absence of the Chair, the meeting was chaired by the Vice-Chair, the Biosafety Officer.

Meeting Minutes for Approval

- *June 18, 2025*

Changes were requested on the June 18, 2025 meeting minutes and June minutes will be reviewed /approved at the next IBC meeting.

Safety Officer Report

New Business

- Public posting of meeting minutes

Conflicts of Interest Disclosure:

No member of the IBC may participate in the review of any project in which the IBC member is an investigator, has a financial conflict of interest, or has any other interest which has an adverse impact on the IBC member's ability to exercise independent judgment. Under such circumstances, the IBC member shall not be present during IBC deliberations, except to provide information requested by the IBC. Each member of the IBC shall respect and preserve the confidentiality of information he/she receives as a member of the IBC, and shall use, discuss, and/or disclose such information only for purposes related to deliberations or other assigned business of the IBC.

Laboratory Safety Registrations - Initials

Record Number: 23-0089
PI Name: Lauretta Lacko
Submission Type: Initial
Notes: The assigned IBC member reviewed the procedures performed in the lab. No issues were raised. The reviewer recommended approval at BSL-2.
Decision: Approved

Recombinant Microorganism Tracking Table:

Recombinant Microorganism Tracking Table:

Microorganism for Recombinant work	Other microorganism name	List strains/serotypes for constructs	Ability to replicate in the cell	Cell/cell type where microorganism/vector will be propagated/packaged	In vivo or in vitro?	Cell type where expressed	Gene/gene family to be inserted, deleted, upregulated or downregulated	Original source(s) species of DNA/RNA	Biological activity/ potential of gene modification	Manipulation types performed/planned	Assigned Biosafety Level(s)	Regulatory Rationale	Applicable NIH Guidelines
Lentivirus [Retroviridae/ Lentiviridae]		pLentiC RISPRv2, pLKO,pCS	Replication Incompetent/Deficient ~ Self-Inactivating	HEK293T	In Vitro	Human	lineage specific for pancreatic and colon development	Human	Gene Expression Regulators ~ Marker/Reporter	Express/ Upregulate gene of interest ~ Repress/ Downregulate gene of interest ~ Transfect cells	BSL-2	NIH Applicable	Section II I-D-1 ~ Section III- D-3

Record Number: 25-0057
PI Name: Samara Reck-Peterson
Submission Type: Initial
Notes: The assigned IBC member reviewed the procedures performed in the lab. The reviewer requested additional descriptions regarding the exempt work, the lentiviral work and how *Aspergillus Nidulans* is being used as a model organism. No other issues were raised. Pending administrative changes, and additional description, the reviewer recommends approval of lentiviral work at BSL-2.
Decision: Registration approval tabled

Recombinant Microorganism Tracking Table:

Recombinant Microorganism Tracking Table:

Microorganism for Recombinant work	Other microorganism name	List strains/serotypes for constructs	Ability to replicate in the cell	Cell/cell type where microorganism/vector will be propagated/packaged	In vivo or in vitro?	Cell type where expressed	Gene/gene family to be inserted, deleted, upregulated or downregulated	Original source(s) species of DNA/RNA	Biological activity/potential of gene modification	Manipulation types performed/planned	Assigned Biosafety Level(s)	Regulatory Rationale	Applicable NIH Guidelines
Lentivirus [Retroviridae/Lentiviridae]		pLVX-TetOne-Puro, pFUGW	Replication Incompetent/ Deficient	HEK29 3	In Vitro	Human	LRRK2, LRRK1, Rab8, Rab b10, Rab 7	Human	Other	Express/ Upregulate gene of interest ~ Repress/ Downregulate gene of interest ~ Transfect cell line ~ Transfect cells	BSL-2	NIH Applicable	Section II I-D-1 ~ Section III-D-2 ~ Section III-D- 3

Laboratory Safety Registrations - Amendments

Record Number: 19-0720
PI Name: David Artis
Submission Type: Amendment
Notes: The assigned IBC member reviewed the lab protocol and noted the updated administrative contact. This amendment consists of additional AAV strains and lentiviral work. No issues were raised. The reviewer recommended approval of Lentivirus at BSL-2+ and AAV at ABSL-1/ABSL-1.
Decision: Approved

Recombinant Microorganism Tracking Table:

Recombinant Microorganism Tracking Table:

Microorganism for Recombinant work	Other microorganism name	List strains/serotypes for constructs	Ability to replicate in the cell	Cell/cell type where microorganism/vector will be propagated/packaged	In vivo or in vitro?	Cell type where expressed	Gene/gene family to be inserted, deleted, upregulated or downregulated	Original source(s) species of DNA/RNA	Biological activity/potential of gene modification	Manipulation types performed/planned	Assigned Biosafety Level(s)	Regulatory Rationale	Applicable NIH Guidelines
Lentivirus [Retroviridae/Lentiviridae]		3rd generation VSV-G pseudotyped lentivirus	Replication Incompetent / Deficient	293T cells	In Vitro	In vivo ~ Human	Hcar2 (Gpr109a), Mertk	Human ~ Murine	Other	Repress/ Downregulate gene of interest ~ Transfect cells	BSL-2+	NIH Applicable	Section II I-D-1 ~ Section III-D-3
Adeno-Associated Virus (AAV)		AAV9-hSyn-DIO-mCherry, AAV9-hSyn-DIO-hM4D(Gi) -mCherry, AAV5-hM3D(Gq)-mCherry, AAVrg-hSyn-DIO-mCherry, AAVrg-h Syn-DIO- hM3D(Gq)-mCherry, AAVrg-hSyn-DI O-hM4D(Gi)-mCherry, AAV rg-hSyn-DIO-Cre, AAV-PHP.eb-CAG-mCherry	Replication Incompetent / Deficient	239T	Both	In vivo	hM4D(Gi)-mCherry	Murine	Marker/ Reporter	Transfect cells / introduce int o in vivo model	ABSL-1 ~ BSL-1	NIH Applicable	Section II I-D-4

Biological/Microbiological Microorganism Tracking Table:

Biological/Microbiological Microorganism Tracking Table:

Microorganism for Biological/Microbiological work	Other microorganism name	List strains/serotypes for constructs	Ability to replicate in the cell	In vivo or in vitro?	Manipulation types performed/planned	Assigned Biosafety Level(s)	Regulatory Rationale	Applicable NIH Guidelines
Heligmosomoides [Polygrus]		Heligmosomoides polygyrus	Replication Competent	In Vivo	Culturing	ABSL-1 ~ BSL-1	Not rDNA	
Trichuris [Muris]		Trichuris muris	Replication Competent	In Vivo	Culturing	ABSL-1 ~ BSL-1	Not rDNA	
Nippostrongylus [Brasiliensis]		Nippostrongylus brasiliensis	Replication Competent	In Vivo	Culturing	ABSL-1 ~ BSL-1	Not rDNA	
Citrobacter [Rodentium]		Citrobacter rodentium	Replication Competent	Both	Culturing	ABSL-1 ~ BSL-1	Not rDNA	
Influenza Virus [Orthomyxoviridae Types A, B, C]		Mouse-adapted influenza A virus strain PR8, PR8-GP33, X31, and X31-GP33	Attenuated	Both	Culturing ~ Introduction into in vivo model	ABSL-2 ~ BSL-2	Not rDNA	
Norovirus [Murine Strain]		murine norovirus strain CW3 and CR6	Replication Competent	Both	Culturing	ABSL-1 ~ BSL-2	Not rDNA	
Streptococcus [Pneumoniae]		ATCC6303, ATC C6301	Replication Competent	Both	Culturing ~ Introduction into in vivo model	ABSL-2 ~ BSL-2	Not rDNA	
Trichinella [Spiralis]		Trichinella spiralis	Replication Competent	In Vivo	Culturing	ABSL-2 ~ BSL-2	Not rDNA	

Laboratory Safety Registrations - 2-Year Renewals

Record Number: 19-0324
PI Name: Giorgio Ga. Inghirami
Submission Type: Renewal
Notes: The assigned IBC member reviewed the lab protocol and noted the change of additional research with AAV2 and AAV6-derived vectors. No issues were raised. The reviewer recommended approval of lentivirus and retrovirus work at previously approved biosafety levels, and AAV work conducted at BSL-2/ABSL-2.
Decision: Approved

Recombinant Microorganism Tracking Table:

Recombinant Microorganism Tracking Table:

Microorganism for Recombinant work	Other microorganism name	List strains/serotypes for constructs	Ability to replicate in the cell	Cell/cell type where m/vector will be propagated/packaged	In vivo or in vitro?	Cell type where expressed	Gene/gene family to be inserted, deleted, upregulated or downregulated	Original source(s) species of DNA/RNA	Biological activity/potential of gene modification	Manipulation types performed/planned	Assigned Biosafety Level (s)	Regulatory Rationale	Applicable NIH Guidelines
Lentivirus [Retroviridae/Lentiviridae]		pWl, pLentif-pGk-puro-DEST	Replication Incompetent/ Deficient	HEK, 29 3T	In Vitro	In vivo ~ Human	Stat3, My c, Jak1, N fKb2, Ro s1, Tyk2 Blimp1, NCOR2, TERT	Human ~ Murine	Antibiotic Resistance ~ Cytokine ~ Gene Expression Regulators ~ Marker/Reporter ~ Oncogenic Gene Sequences	Express/ Upregulate gene of interest ~Repress/Downregulate gene of interest ~ Transfect cells	ABSL-2~ BSL-2+	NIH Applicable	Section II I-D-1 ~ Section III-D-3 ~ Section III-D-4
Retrovirus [Amphotropic]		Pinco, Pallino, MSCV, pDEST, MSCV, pCDNA3,pGEM, pCRII	Replication Incompetent/ Deficient	293GP	Both	Human	NPM-ALK, Stat3, Bcl-2, Bl c-2, c-My c	Human ~ Murine	Cytokine ~ Gene Expression Regulators ~ Marker/Reporter ~ Oncogenic Gene Sequences	Express/ Upregulate gene of interest ~Repress/Downregulate gene of interest ~ Transfect cell line ~ Transfect cells ~ Transfect cells / introduce into in vivo model	ABSL-2~ BSL-2+	NIH Applicable	Section II I-D-1 ~ Section III-D-3 ~ Section III-D-4
Adeno-Associated Virus (AAV)		AAV2 and AAV6	Replication Incompetent/ Deficient	293T	Both	In vivo ~ Human	CD20 and CD22	Human ~ Jellyfish	Cytokine ~ Marker/Reporter	Direct inject into in vivo model ~ Transfect cell line ~ Transfect cells ~ Transfect cells / introduce into in vivo model	ABSL-2~ BSL-2	NIH Applicable	Section III-D-4

Record Number: 19-0353
PI Name: Bishoy Morris Faltas
Submission Type: Renewal
Notes: The assigned IBC member reviewed the lab protocol and noted the change of additional genes. No issues were raised. The reviewer recommended approval of lentivirus and retrovirus work at previously approved biosafety levels. Since both AAV and adenovirus lead to the expression of oncogenes, the reviewer recommended to assign ABSL-2+/BSL-2+.
Decision: Approved

Recombinant Microorganism Tracking Table:

Recombinant Microorganism Tracking Table:

Microorganism for Recombinant work	Other microorganism name	List strains/serotypes for constructs	Ability to replicate in the cell	Cell/cell type where microorganism/vector will be propagated/packaged	In vivo or in vitro?	Cell type where expressed	Gene/gene family to be inserted, deleted, upregulated or downregulated	Original source(s) species of DNA/RNA	Biological activity/potential of gene modification	Manipulation types performed/planned	Assigned Biosafety Level(s)	Regulatory Rationale	Applicable NIH Guidelines
Adenovirus [Human, all types]		Adenovirus	Replication Incompetent/Deficient	293T	Both	In vivo ~ Human	APOBE C, CDKN 1A, CDK N2A, CD KN2B, M TAP, PTE N, STAG 2 Cas9, FAK, Luciferase, G FP, RFP, FGFR-3, TACC3, BCL2, IG H J6, BAI AP2L1	Human ~ Murine	Antibiotic Resistance ~ Gene Expression Regulators ~ Marker/Reporter ~ Oncogenic Gene Sequences	Express/ Upregulate gene of interest ~ Repress/Downregulate gene of interest ~ Transfect cell line ~ Transfect cells / introduce into in vivo model	ABSL-2 ~ BSL-2	NIH Applicable	Section II I-D-1 ~ Section III- D-3 ~ Section III-D -4

Lentivirus [Retroviridae/ Lentiviridae]		FUCR, pLenti6.3, pMIRNA1, lentiCas9 V2, pLV, pLVX	Replication Incompetent/ Deficient	293T	Both	In vivo ~ Human	APOBE C, CDKN 1A, CDK N2A, CD KN2B, M TAP, PTE N, STAG 2 Cas9, F AK, Luciferase, G FP, RFP, FGFR-3, TACC3, BCL2, IG H J6, BAI AP2L1, TdTomato, shRNA for SOX2, gRNA exome3.4, 4, 7 of HPR T gene, C DAC1, m Cherry, shRNA PA PR1, Cdadc1, CCN D1.	Human ~ Murine	Antibiotic Resistance ~ Gene Expression Regulators ~ Marker/Reporter ~ Oncogenic Ge ne Sequences	Create virions ~ Direct inject into in vivo model ~ Express/Upregulat e gene of interest ~ Repress/Downreg ulate gene of interest ~ Transfect cell line ~ Transfect cells / introduce into in vivo model	ABSL-2+ ~ BSL-2+	NIH Applicable	Section II I-D-1 ~ Section III- D-3 ~ Section III-D -4
Adeno-Associated Virus (AAV)		AAV1-9, AAVrh1 0	Replication Incompetent/ Deficient	293T	Both	In vivo ~ Human	APOBE C, CDKN 1A, CDK N2A, CD KN2B, M TAP, PTE N, STAG 2 Cas9, F AK, Luciferase, G FP, RFP, FGFR-3, TACC3, BCL2, IG H J6, BAI AP2L1, I-SceI	Human ~ Murine	Antibiotic Resistance ~ Gene Expression Regulators ~ Marke r/Reporter ~ Oncogenic Gene Sequences	Create virions ~ Direct inject into in vivo model ~ Express/Upregulat e gene of interest ~ Repress/Downreg ulate gene of interest ~ Transfect cell line ~ Transfect cells/ introduce into in vivo model	ABSL-2 ~ BSL-2	NIH Applicable	Section II I-D-1 ~ Section III- D-3 ~ Section III-D -4
Retrovirus [Amphotropic]		MMLV	Replication Incompetent/ Deficient	293T	Both	In vivo ~ Human	APOBE C, CDKN 1A, CDK N2A, CD KN2B, M TAP, PTE N, STAG 2 Cas9, F AK, Luciferase, G FP, RFP, FGFR-3, TACC3, BCL2, IG H J6, BAI AP2L1	Human	Antibiotic Resistance ~ Gene Expression Regulators ~ Marker/Reporter ~ Oncogenic Gene Sequences	Create virions ~ Transfect cells ~ Transfect cells / introduce into in vivo model	ABSL-2+ ~ BSL-2+	NIH Applicable	Section II I-D-1 ~ Section III- D-3 ~ Section III-D -4

- - - - - - - - - - - - - -

Record Number: 19-0379

PI Name: Teresa Sanchez Garcia Vao

Submission Type: Renewal

Notes: The assigned IBC member reviewed the lab protocol and noted no changes associated with the renewal. The reviewer requested to correct the source species of AAV. No other issues were raised. With this administrative change, the reviewer recommended approval at previously assigned biosafety levels.

Decision: Approved with administrative changes

Recombinant Microorganism Tracking Table:

Recombinant Microorganism Tracking Table:

Microorganism for Recombinant work	Other microorganism name	List strains/sero types for constructs	Ability to replicate in the cell	Cell/cell type where microorganism/vector will be propagated/packaged	In vivo or in vitro?	Cell type where expressed	Gene/gene family to be inserted, deleted, upregulated or downregulated	Original source(s) species of DNA/RNA	Biological activity/potential of gene modification	Manipulation types performed/planned	Assigned Biosafety Level(s)	Regulatory Rationale	Applicable NIH Guidelines
Adeno-Associated Virus (AAV)		AAV2-BR1	Replication Incompetent/ Deficient	The AAV 2-BR1 will not be grown in our lab.	In Vivo	In vivo	non-specific scramble oligonucleotide , eGFP reporter 2 shRNA sequences to knock down the long non-coding RNA H19, o mCherry reporter, Cre recombinase	Bacteriophage ~ Jellyfish ~ Murine	Unknown	Direct inject into in vivo model	ABSL-1~ BSL-1	NIH Applicable	Section II I-D-4
Adenovirus [Human, all types]		pAdEasy	Replication Incompetent/ Deficient	HEK-293, primary neurons, glial cells, human umbilical vein endothelial cells, HU VEC	In Vitro	In vivo ~ Human	sphingosine-1-phsophate receptor 1 (S1 P1R), sphingosine-1-phsophate receptor 2 (S1P2R), sphingosine-kinase 1 (S K1), PTEN wild type, dominant negative Rho, dominant negative Rac, b-galactosidase	Human ~ Murine	Gene Expression Regulators ~ Marker/Reporter ~ Ot her	Create virions ~ Transfect cell line	BSL-2	NIH Applicable	Section II I-D-1 ~ Section III- D-3

- - - - - - - - - - - - - -

Record Number: 23-0001
PI Name: Elisa ten Hacken
Submission Type: Renewal
Notes: The assigned IBC member reviewed the lab protocol and noted no changes associated with the renewal. No issues were raised. The reviewer recommended approval at previously assigned biosafety levels.
Decision: Approved

Recombinant Microorganism Tracking Table:

Recombinant Microorganism Tracking Table:

Microorganism for Recombinant work	Other microorganism name	List strains/serotypes for constructs	Ability to replicate in the cell	Cell/cell type where microorganism/vector will be propagated/packaged	In vivo or in vitro?	Cell type where expressed	Gene/gene family to be inserted, deleted, upregulated or downregulated	Original source(s) species of DNA/RNA	Biologic al activity/potential of gene modification	Manipulation types performed/planned	Assigned Biosafety Level(s)	Regulatory Rationale	Applicable NIH Guidelines
Lentivirus [Retroviridae/Lentiviridae]		2nd generation, Pseudotyped VSVG lentiviral vectors	Replication Incompetent/ Deficient	293T	Both	In vivo	sgRNAs against Spen, Cdkn2a/b, Ezh2, Ep300, Dnmt3a, Setd2, Kmt2c, Kmt2c, mCherry	Murine ~ Other	Gene Expression Regulators ~ Marker/Reporter	Express/ Upregulate gene of interest ~ Repress/ Downregulate gene of interest ~ Transfect cells ~ Transfect cells / introduce into in vivo model	ABSL-1 ~ BSL-2+	NIH Applicable	Section II I-D-1 ~ Section III-D-3 ~ Section III-D- 4

- - - - - - - - - - - - - -

Record Number: 23-0024
PI Name: Despina Siolas
Submission Type: Renewal
Notes: The assigned IBC member reviewed the lab protocol and noted no changes associated with the renewal. The reviewer requested clarification if they plan to use only mouse derived xenograft models. No other issues were raised. The reviewer recommended approval at previously assigned biosafety levels with the addition of ABSL-1.
Decision: Approved

Recombinant Microorganism Tracking Table:

Recombinant Microorganism Tracking Table:

Microorganism for Recombinant work	Other microorganism name	List strains/serotypes for constructs	Ability to replicate in the cell	Cell/cell type where microorganism/vector will be propagated/packaged	In vivo or in vitro?	Cell type where expressed	Gene/gene family to be inserted, deleted, upregulated or downregulated	Original source(s) species of DNA/RNA	Biological activity/potential of gene modification	Manipulation types performed/planned	Assigned Biosafety Level (s)	Regulatory Rationale	Applicable NIH Guidelines
Lentivirus [Retroviridae/Lentiviridae]		Addgene (pCF806-reci, #186711; pCF806-shRen.713, #186712; pCF806-shABC1, #186713; pCF806-shABC2, #186714)	Attenuated ~ Replication Incompetent /Deficient	HEK 293T	Both	In vivo ~ Human	Kras, TP 53, SMA D4, BRCA	Human ~ Murine	Oncogenic Gene Sequences	Repress/ Downregulate gene of interest ~ Transfect cell line ~ Transfect cells ~ Transfect cells / introduce into in vivo model	ABSL-1~ BSL-2+	NIH Applicable	Section II I-D-1 ~ Section III- D-3 ~ Section III-D -4

- - - - - - - - - - - - - -

Acknowledgement of Laboratory Safety Registrations: No IBC-Applicable Work Conducted

Record Number	PI Name	Laboratory Safety Registration Submission Type
20-0167	Tan Ince	Lab Registration - Renewal
22-0073	Rajshri Hirpara	Lab Registration - Renewal

25-0048	Radda Rusinova	Lab Registration - Initial

Laboratory Safety Registrations: Exempt

Record Number	PI Name	Laboratory Safety Registration Submission Type
22-0007	Laura Beth J McIntire	Lab Registration - Renewal

Acknowledgment of Human Subjects Research/Human Gene Transfer: Annual Report

HS Record Number: 24-0071

HS PI Name: Sarva, Harini

Record Title: Long-term Follow-up of Glutamic Acid Decarboxylase Gene Transfer to the Subthalamic Nuclei in Participants with Parkinson's Disease

RS Record Number: 24-0069

Notes:

Decision: Approved

Acknowledgment of Closed Laboratory Safety Registrations

Record Number	PI Name
19-0608	Olaf Sparre Andersen
19-0664	Glen Prusky
24-0019	Teresa Evering

The meeting adjourned at 10:24 AM.