NAVIGATING iRECS

New Application - Gene Technology/Regulated Biological Materials

1. To create a new project (application), click on Create Project on the left-hand navigation panel.



2. Enter your **Project Title** (i.e. research project name) and select **Regulated Biological Materials Application**, click **Create**.

Create Project	×
Project Title* (Max 200 characters)	
Project CRISPR-Cas9	
Form*	
Regulated Biological Materials Application	
	Create Close

3. You will arrive at the following page:

Project Create Sub Form Roles	Project Gene Editing A				0415
Completeness Check Submit Refresh Verw as PDF Correspond	Project Tree Project Gene Editing A Regulated Biological Materials Agolication				
	Action Required on Form	Status	Review Reference	Application Type	Date Modified
	Yes	Not Submitted	N/A	N/A	22/11/2022 15:39
	Regulated Biological M	aterials Application	Collaborators Submissions Con	respondence History	Show Inactive Sections
	Section		Questions		
	Section Before you start		Questions Before you start		
	Section Before you start New Application / Modification Request		Questions Before you start New Application / Modification Request		
	Section Before you start New Application / Modification Request Assessment of Dealings		Questions Before you start New Application / Modification Request Assessment of Dealings		
	Section Before you start New Application / Modification Request Assessment of Dealings Project Information		Ouestions Before you start New Application / Modification Request Assessment of Dealings General Details Project Details Project Details	rsonnel	
	Section Before you start New Application / Modification Request Assessment of Dealings Project Information Attachments		Cuestions Before you start New Application / Modification Request Assessment of Dealings General Details Project Details Project Pe Attactments	rsonnel	

4. Optional – Invite Collaborators: At this stage, you can invite collaborators to complete the application form by clicking on Roles. A pop-up will appear, enter each collaborator's name/email address, and their access type ('Read', 'Read & Write' OR 'Read, Write & Submit'). Click on the + button to add another collaborator to the list, repeat the process until all collaborators are added. Click Share Role to complete the process.

Note: Only the Project Lead/Supervisor should be granted 'Read, Write & Submit' access.

<u>Note:</u> Ideally, the Project Lead/Supervisor should be the one creating and submitting each iRECS application, as they are responsible for what is declared in each application. If you are filling in the iRECS application on behalf of a Project Lead/Supervisor, you need to transfer the record to the Project Lead/Supervisor to complete the necessary declarations and review the application before submission. See "Transferring iRECS Projects" for transfer instructions.

Project	Create Sul	b Roles	Project Gene Editing A			
~	1	Share R	oles			×
Completeness Check	Submit	Sharing a forn	n enables others to view/edit the same form depending on the l	evel of access you give them. Please select the users you wish to share this	s form with:	
•	\sim	collaborator1	@unsw.edu.au	Read & Write 🗸	+	
View as PDF	Corres	collaborator2	@uunsw.edu.au	Read ~	— •	
		collaborator3	@unsw.edu.au	Read & Write V	🗖 🗄	
		Note: This	form has not yet been shared with anyone			
					Share Role	Close

5. To commence your application process, click on the **Before you start** hyperlink. **Regulated Biological Materials Application**

Section	Questions
Before you start	Before you start
New Application / Modification Request	New Application / Modification Request
Assessment of Dealings	Assessment of Dealings
Project Information	General Details Project Details Project Personnel
Attachments	Attachments
Declaration	Declaration
Submission	Submission

6. Note the different functionalities on the page. You can navigate to the next page by clicking on **Next page/Next** or **Previous page/Previous** buttons at the bottom or left-hand panel of the screen. Click **Next page/Next**.

Previous) Next	1 Navigate	Regu Project Title: Pro	lated Biological Materials Application	415 Version: Beta
View as PDF	0 Documents	Signatures			\bigcirc
E Save	Roles	Second Se	Note: Below is only (no speci	some helpful guidance completing this form. Please note that the session will time out after 30 minutes of inactivity. It is advised that you regularly save to ensure no content is lost. The form accepts plain te al formatting). You can upload attachments to the form if special formatting is required (e.g. charts, illustrations etc.)	xt
Completeness Check	Submit		Save	To save your form progress select the 'Save' button. Note: iRECS sessions will expire after 30 minutes of inactivity.	
			◀ Navigate	To return to the form navigation screen select the 'Navigate' button. Here you can see all information associated with the project including the history of submission correspond with RECS secretary and create sub forms.	ns,
			Roles	To share access to this form select the 'Roles' button or select 'Assign Role' at any personnel questions. You can choose what permissions (read, write, or submit each user receives.	t)
			Collaborators	To view which users currently have access to this form select the 'Collaborators' button. This will show what level of access each users has to your form.	
			Completeness Check	To perform a completeness check (checks mandatory questions are answered), select the 'Completeness Check' button.	
			View as PDF	To view your form as a PDF, select the 'View as PDF' button.	
			Submit	To submit your completed form, select the 'Submit' button.	
				Previous page Next page	

7. Select New Application and click Next Page.



Asses	ment of Dealings
Researc	involving NLRDs
Any rese	rch involving an NLRD with a GMO requires approval from the UNSW Gene Technology Research Committee (GTRC). A written Record of
Assessm	ent from the UNSW GTRC will be provided to the Project Supervisor once the NLRD Project Application has been approved by the
Committe	e. Work on the project may then commence.
Researc	involving Exempt Dealings
Research	involving an Exempt dealing with a GMO does not require approval from the GTRC. However the Project Supervisor must notify the GTRC
of the pro	posed research via a Notification of Exempt Dealing and a GTRC Identification Number must be issued before work can commence.
Researc	involving both NLRD and Exempt Dealings
Where th	e research involves both NLRD and Exempt dealings, it will be treated as NLRD.
Risk Gro	un 3 Pathoren Annroval
Applicatio	n for access to UNSW PC3 space and equipment.
How to i	entify the type of dealing / approval type:
For defini	ions and classification of dealings see: https://research.unsw.edu.au/what-type-classification-and-approval-my-dealing
Where ar	application contains both NLRD and Exempt, it will be treated as an NLRD application.
Please	ndicate dealings covered by this form:
	Exempt
	NLRD
	NLRD and Exempt

Previous page Next page

9. For projects involving **Exempt** dealings, you (i.e. Project Lead/Supervisor) are required to complete the following declaration. Check the **Accept** checkbox and click **Next Page**.

<u>Note</u>: If you are filling in the iRECS application on behalf of a Project Lead/Supervisor, you should advise the Project Supervisor to complete this section upon transferring the record to him/her for review and then submission. Note also that a Project Supervisor is ultimately responsible for what is declared in each application. See the "Transferring iRECS Projects" guide for transfer instructions.

Notification of Exempt Dealing
The Office of Gene Technology Research (OGTR) defines Exempt dealings as a category of dealings with GMOs that have been assessed over time as posing a very low risk (i.e. contained research involving very well understood organisms and processes for creating and studying GMOs). Exempt dealings are described in Parts 1 & 2 of Schedule 2 of the (amended) Gene Technology Regulations 2001.
Research involving an Exempt dealing with a GMO does not require approval from the UNSW GTRC. However the Project Supervisor must notify the GTRC of the proposed research via a Notification of Exempt Dealing and a GTRC Identification Number must be issued before work can commence.
It is a legislative requirement that Exempt dealings must not involve an intentional release of a GMO into the environment.
The Project Supervisor agrees that:
 There will be no intentional release of GMOs into the environment. Any spills outside of the facility or loss/suspected loss of GMOs including down the laboratory sink will be reported to the GTRC Support Officer, email: genetechnology@unsw.edu.au, phone: 02 9385 7244 as soon as possible after the event in order that the OGTR can be informed.
Z Accept
Previous page Next page

10. Complete all relevant fields of the **General Details** section of the web form. Click **Next page** once complete. <u>*Tip*</u>: Save your progress by clicking on the "**Save**" button on the left-hand panel to save your progress and/or complete your application next time.

General Details		
Is this project a:		

11. Complete all relevant fields of the **Project Details** section of the web form. Click **Next page** once complete. <u>*Tip*</u>: Save your progress by clicking on the "**Save**" button on the left-hand panel to save your progress and/or complete your application next time.

Project Details		
Project Title		
Project Gene Editing A		

12. For the **Project Personnel** section, specify the **Project Supervisor/Lead** by entering the **supervisor's name** into the **search box**, the supervisor's details will then auto-populate in the details fields. Specify the supervisor's **Organisation Details** from the drop-down list. Click **Assign Role**.

Project Supervisor Details	
A Project Supervisor cannot be a sa Project Supervisor. All corresponde	tudent. If the project is to be undertaken by an Honours, Masters or PhD student, then the supervisor must be the nce will be addressed to the Project Supervisor.
Note: Below is some helpful guidan	ce on completing the personnel section of the form. Use the 'Search User' field to prefill iRECS users information.
Assign Role After specifying	the contact details. Select 'Assign Role' to share the form. This enables others to view/edit the same form depending
on the level of access you give then	n.
J G (z @unsw.	edu.au) Assign Role
Title	Sci
First Name	J
Surname	G
Organisation Details	Please Select 🗸
Phone	5
zID	z
Email	z @unsw.
Training Record	130016, 90020, ACECR

13. Next, enter the **name of each researcher and/or student** involved in the project into the **search box**, the project personnel details will then auto-populate in the details fields. Click **Assign Role** to share the form with said personnel.

<u>Note</u>: You will not be prompted to complete this section if you declare **Exempt** in the Assessment of Dealings section. <u>Tip</u>: Save your progress by clicking on the "**Save**" button on the left-hand panel to save your progress and/or complete your application next time.

Project Personnel

Note: Below is some helpful guidance on completing the personnel section of the form. Use the 'Search User' field to prefill iRECS users information.

Assign Role	After specifying the contact details. Select 'Assign Role' to share the form. This enables others to view/edit the same form depending
on the level of acc	ess you give them.
S S (z	@unsw.edu.au) Assign Role
Title	Dr
First Name	S
Surname	S
Email	z @unsw.edu.au
zID	z
Training Recor	d HSEGTC

14. Click **Add Another** and repeat the above process until you have all project personnel added.



- 15. Depending on the **Assessment of Dealings** you indicated, you may be required to specify additional personnel details. E.g.:
 - If you declare NLRD or NLRD and Exempt, specify <u>all the classes of people</u> who will be involved during the life of the project.

Classe	s of people who may	be inv	olved in the futur	re (tick as m	any as required)		
Note: The requireme	e Project Supervisor is respor ent details can be found on th	nsible for ne Gene	ensuring that all proje Technology website.	ct personnel re	ceive appropriate trainir	ng prior to joinii	ng the project. Training
	Other		Technical		Research assistants		Visiting academics PhD students
	Honours students		Postdocs				
lf you d	leclare Risk Group	3 Pa	thogen Approv	al, you ar	e required to sp	ecify:	
PC3 fa	acility supervisor						

PC3 facility supervisor must have maintained PC3 level C training category for at least 6 months

- 16. Click Next page once complete.
- 17. Complete the GMO Description and Genetics section for each GMO that your project will deal with. <u>Tip</u>: See the "<u>GMO Description and Genetics Example</u>" section below for tips on how to complete this section. <u>Tip</u>: Save your progress by clicking on the "Save" button on the left-hand panel to save your progress and/or complete your application next time.

GMO Description and Genetics
Use the section below to list all GMOs (being used or generated) individually. Specify host organism, vectors, genes (identity and function of nucleic acid and organism of origin), method of transfer and modified trait (eg antibiotic resistance).

18. To add another GMO item, click **Add Another** or **Duplicate** (duplicate the previous item). Repeat the process until you have all GMOs added. Click **Next page** once complete.



19. For Attachments, click on Upload Document to attach any additional supporting documents for your project. Click Next page once complete.



20. For the **Declaration** section, enter the name of the **relevant HoS/Centre** into the **search box**, the HoS/Centre details will then auto-populate in the details fields. **Do not click Assign Role (unless the HoS is a collaborator** in the research project). The nominated HoS will be notified upon <u>submission</u> of your application. Click **Next**.

Head of School/Centre							
Please nominate	our head of school/centre to be notified upon approval of this application.						
vs	z @unsw.edu.au)						
Title	Sci						
First Name	V						
Surname	S						
Email	z 📴 @unsw.edu.au						
	Previous page Next page						

21. You have now completed your application. To save your application, click **Save**, then click the **Completeness Check** button to ensure all sections have been completed.

<u>Note</u>: If you are filling in the iRECS application on behalf of a Project Lead/Supervisor, you need to transfer the record to the Project Lead/Supervisor at this stage to complete the necessary declarations, review and then submission. A Project Supervisor is ultimately responsible for what is declared in each submitted application. See "Transferring Records" transfer instructions.

Previous) Next	≁ Navigate	Regulated Biological Materials Application					
View as PDF	Documents	Signatures	Submission					
Save	Roles	Collaborators	Note: Below is some helpful guidance completing this form. Please note that the session will time out after 30 minutes of inactivity. It is advised that you regularly save to ensure is lost.					
ompleteness Check	Gubinit		To perform a completeness check (checks mandatory questions are answered), select the 'Completeness Check' button.					
			Check To submit your completed form, select the 'Submit' button.					
			Drevious name Nevt name					

22. Should the completeness check indicate that your application is complete, click **Submit** to submit your application.

<u>Note</u>: If you are filling in the iRECS application on behalf of a Project Lead/Supervisor, you need to transfer the record to the Project Lead/Supervisor at this stage to complete the necessary declarations, review and then submission. A Project Supervisor is ultimately responsible for what is declared in each submitted application. See "Transferring Records" transfer instructions.

Previous	Next	1 Navigate	Regulated Biological Materials / Project Title: Project Gene Editing A			
View as PDF	Documents	Signatures	Submissio	on		
L Save	Roles	Collaborators	Note: Below is is lost.	some helpful guidance completing this form. Please note that the session will tin		
Completeness Check	L Submit		Save	To save your form progress select the 'Save' button. Note: iRE		
		-	Completeness Check	To perform a completeness check (checks mandatory question		
			Submit	To submit your completed form, select the 'Submit' button.		

23. **Optional**: You can download a copy of the completed application (you can also do this pre-submission) by clicking on the **View as PDF** button. A pop-up will appear, **check/uncheck** the **With tabular summaries** option, then click **View**. A PDF report will then be generated.

Project	O Create Sub	2+	Project Gene Editing A				
	Form	Roles	Project Tree	View as PDF		×	
Check	Submit	Refresh	Project Gene Ed Regulated Bio	Options: With tabular summaries			
/iew as PDF	Correspond		Action Required on Form		View	Close	

GMO Description and Genetics Example

GMO No	Common Name	Scientific Name	Vectors	Method of Transfer	Identities	Functionalities	Organism of Origin	Phenotype	Classification
1	Human amphotropic retroviral packaging cell line	Homo sapiens	Replication defective retroviral vectors derived from Moloney Murine Leukaemia Virus that has viral genes (gag, pol and env) deleted	The packaging cells will be transfected with retroviral vectors using lipofectamine	Characterized non-toxic genes derived from human, or mouse that promote proliferation and/or tumorigenesis, including the growth factors VEGF and FGF. Amphotropic retroviral packaging cell line, Phoenix A. This packaging cell line harbours 2 plasmids encoding retroviral helper genes that enable packaging of retroviral vectors able to transduce human cells.	Drug resistance genes derived from bacteria that confer resistance to neomycin or puromycin	Human, Bacteria and Mouse	The transfected packaging cells will: Produce retrovirus that is able to infect human cells, but unable to replicate. May have enhanced proliferation and have properties of malignant cells Be resistant to the antibiotics neomycin and puromycin	NLRD 2.1 (I)(i)(ii)(iii)(A)
2	Murine embryonic fibroblasts (MEFs) from PTEN knock-out mice	Mus musculus	Non-conjugative plasmid vector encoding neomycin resistance gene derived from pBR322.	The gene knock out was previously performed by others.	Neomycin resistance gene derived from bacteria.	Drug resistance genes derived from bacteria that confer resistance to neomycin	Mouse and Bacteria	The MEFs are resistant to neomycin (geneticin). They exhibit properties of cancerous cells, including improved survival and proliferation.	Exempt Type 4
3	Transgenic C57/BL6 mouse (Mus musculus) carrying a c-kit transgene under control of the promoter of the immunoglobulin heavy chain	Mus musculus	Non-conjugative plasmid vector derived from pBR322	The mice were previously generated by transfection of embryonic stem cells with a non- conjugative plasmid	Human c-kit oncogene and bacterial neomycin resistance gene	Overexpression of the oncogene of the c-kit transgene and drug resistance to neomycin	Human and Bacteria	Expression of c-kit renders the mice susceptible to development of leukaemia. The mice are resistant to the antibiotic Neomycin (Geneticin).	NLRD 1.1 (a)
4	E. coli bacterial strains – BMH 71-18 mutS, JM 109, DH5α.	Escherichia coli	Non-conjugative plasmid encoding replication defective retroviral vector derived from Moloney Murine Leukaemia virus	E. coli will be transformed with the plasmid using heat shock and calcium chloride treatment.	The plasmid vector is driven by a promoter derived from cytomegalovirus and encodes (i) neomycin and (ii) ampicillin resistance genes derived from bacteria, as well as (iii) the human glucocorticoid receptor in wild-type and mutant forms	Expression of neomycin and ampicillin Expression of human glucocorticoid	Human and bacteria	Transformed bacteria will have altered protein expression and be resistant to ampicillin and neomycin	Exempt Type 4

The following is an example of how you can fill in the GMO Description and Genetics section of your Gene Technology/Regulated Biological Materials application.

FURTHER SUPPORT

- If you have any iRECS login or technical issues, please contact UNSW IT Services at <u>itservicecentre@unsw.edu.au</u> or (02) 9385 1333.
- For any queries, regarding the iRECS Human Ethics, Animal Ethics Gene Technology or Radiation Safety application approval and/or review process, please contact:

Human Ethics: <u>humanethics@unsw.edu.au</u> Animal Ethics: <u>animalethics@unsw.edu.au</u> Gene Technology: <u>genetechnology@unsw.edu.au</u> Radiation Safety: <u>radiationsafety@unsw.edu.au</u>