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LOCAL DETAIL	LOCAL DETAILS						
Department		Radcliffe Department of Medicine Division		Nuffield Division of Clinical Laboratory Sciences			
Area of application (building & rooms)		Biomedical Services based at the John Radcliffe Hospital (BMS JR)					
REVIEW HIST	ORY (to re	cord changes to contents)					
Date	Details of review		Version number	Name of reviewer			
1.							
2.		·					
3.							

YOU ARE INSTRUCTED TO READ THE FOLLOWING THOROUGHLY BEFORE PROCEEDING TO UNDERTAKE THE METHODS DESCRIBED.

Under no circumstances are these instructions to be amended or altered in any way other than by the AUTHOR, APPROVER OR AN APPROPRIATE ALTERNATIVE.





1. Context and Scope

This risk assessment is issued by the Nuffield Division of Clinical Laboratory Sciences, Radcliffe Department of Medicine. Health and safety inspectors seek to secure compliance with the law and may refer to this document as illustrating good practice. Everyone undertaking work involving the handling of lab animals (specifically rodents) should adopt the measures set out within this document to ensure that their health, safety and welfare are not knowingly compromised.

- 1. References for this risk assessment are as follows:
 - a. Prevention of allergy to laboratory animals, plants and other organic matter (BMS document)
 - b. BMS Risk assessment BMSJR4, possible exposure to Laboratory Animal Allergens when carrying out procedures involving animals
- 2. Related documents for this risk assessment are as follows:
 - a. University Policy Statement S3/13 Prevention of Laboratory Animal Allergy
 - b. University Policy Statement 07/09 Respiratory Protective Equipment
 - c. University policy Statement 05/09 Biorisk management
 - d. Animals (Scientific Procedures) Act 1986
 - e. BMS JR Codes of Practice, Standard Operating Procedures (SOPs) and Risk Assessment documents. These are in the BMS JR Users Sharepoint Group.
 - f. BMS Access and induction for new users, Sections 1, 2 and 3
 - g. University Occupational Health Service advice on Action to be taken following sharps, splash or bite injury with exposure to potentially infectious material (Policy OHS1-15)

Risk Matrix

RIS	SK RATING				CONSEQUENCES		
	LOW		1 Insignificant	2 Minor	3 Moderate	4 Major	5 Catastrophic
	HIGH XTREME	People	Slight injury (no treatment required)	Minor injury (First Aid required)	Significant injury/ health effect (hospitalisation/ short-medium term disability)	Single fatality/ Long-term disability	Multiple fatalities/ permanent disability
		Environment	Slight impact	Minor impact	Moderate impact	Major impact	Massive impact
		Asset	Slight damage	Minor damage	Damage to immediate surroundings	Major damage	Extensive damage
		Reputation	Slight impact	Limited impact	Considerable impact	Major national impact	Major international impact
	1 (Highly un	likely to happen)	1	2	3	4	5
00C	2 (Unlike	ely to happen)	2	4	6	8	10
LIKELIHOOD	3 (Possibly	y could happen)	3	6	9	12	15
LIKE	4 (Likel	y to happen)	4	8	12	16	20
	5 (Almost ce	ertain to happen)	5	10	15	20	25





2. Hazard Checklist

Select all the hazards that are applicable to the activity being assessed. Use this checklist to help you complete Section 3 (Risk Assessment) and Section 4 (CoSHH Assessment). Section 4 is only required when hazardous substances are being used.					
Noise		Working at Height		Night Working (11pm- 6am)	
Vibration		Confined Spaces		Hot/Cold Environments	
Ionising Radiation (e.g. radioactive materials)		Lone/Out-of-Hours Working		Lasers	
Non-ionising Radiation (e.g. UV light, microwaves)		Slips, Trips and Falls		Clinical Patients	
Display Screen Equipment		Movement of People or Materials		Members of the Public	
Manual Handling		Work-Related Driving		Laboratory Animals	\boxtimes
Hazardous Substances – Chemical		Work Equipment/Machinery		Compressed Gas Cylinders	
Hazardous Substances - Biological		Fire		Liquid Nitrogen	
Human Tissues/Blood products		Electricity		Violence at Work	

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3. Risk Assessment

What is the hazard?	Who is likely to be harmed and how?	Initial Risk Rating	What control measures are in place to prevent accidents/incidents?	Residual Risk Rating	What further control measures/actions are required?	Timescales for further actions to be completed (within)	Name/job title of person the action is assigned to
Laboratory animal allergens	All staff and workers	High (12)	 Safe system of work: low-dust bedding, use of Individually ventilated cages (IVCs) where possible Engineering controls – use of hoods/ local exhaust ventilation, downdraft bench wherever possible General ventilation systems in all rooms we use Training includes procedures for cleaning work areas to limit LAA transfer (wet-wiping contaminated surfaces such as bench tops) Limit frequency/duration of exposure wherever possible Hand washing after removing gloves Only competent staff are allowed to handle animals Only BMS-trained staff are 	Medium (6)	None	All of the control measures must be in place and understood before access to the BMS unit	n/a





What is the hazard?	Who is likely to be harmed and how?	Initial Risk Rating	What control measures are in place to prevent accidents/incidents?	Residual Risk Rating	What further control measures/actions are required?	Timescales for further actions to be completed (within)	Name/job title of person the action is assigned to
			 allowed access to the facility PPE (gown, nitrile gloves, oversleeves, hair nets, shoe covers) Health surveillance. RPE will be supplied if deemed necessary (for open-top cage work in particular) 				
Animal bites / scratches	All staff and workers	Modera te (9)	 Animals are sourced as Specific-pathogen free, reducing the risk of exposure to dangerous infectious agents; Training is provided to ensure animals are handled competently, using appropriate restraint methods, minimising distress and therefore reducing the chances of bites or scratches Training is provided to ensure all staff know what first aid measures to take in the event of an injury 	Medium (6)	None	n/a	n/a

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What is the hazard?	Who is likely to be harmed and how?	Initial Risk Rating	What control measures are in place to prevent accidents/incidents?	Residual Risk Rating	What further control measures/actions are required?	Timescales for further actions to be completed (within)	Name/job title of person the action is assigned to
			 Staff are aware of the bites and scratches procedure from Occupational health (poster from OH policy OH1-15 is circulated to all and displayed in the animal house) 				
Out of hours working	All staff and workers	Medium (6)	 Only staff who are fully competent and willing to monitor animals out of hours will do this No staff showing symptoms of sensitisation is allowed to attend BMS out of hours, without review by OH WhatsApp group notifications on entry and departure from BMS allow the rest of the group to check on colleagues working alone out of hours Personal security awareness, including reporting any lights not 	Low (4)	Emergency procedures if severe allergic response or other serious injury, ensure all staff are aware	one month	NDCLS DSO

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What is the hazard?	Who is likely to be harmed and how?	Initial Risk Rating	What control measures are in place to prevent accidents/incidents?	Residual Risk Rating	What further control measures/actions are required?	Timescales for further actions to be completed (within)	Name/job title of person the action is assigned to
			working around the compound, checking for				
			any potentially suspicious				
			vehicular movements				
			before stepping out				
			 All external (fire exit) doors to the animal facility are 				
			kept locked and alarmed				
			(Opened by break glass if				
			necessary). Outside of				
			working hours (8am-4pm				
			Monday-Thursday and 3pm				
			on Friday) the inside door				
			of the main entrance is on				
			a 15 second Shunt. If you				
			are aware that you have set				
			off the alarm inadvertently,				
			you should immediately				
			inform Security by phone				
			by ringing switch board (0)				
			and ask to be put through				
			or directly by ringing				
			20107 . Wait inside the main entrance "time lock"				
			for Security to arrive				
			(should be no more than				
			10-15 minutes).				

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BMS Sharepoint site (requires approval for access, go to the website, follow through to the type of page you need and request authorisation in the box that comes up): https://www.medsci.ox.ac.uk/for-staff/resources/biomedical-services

- Education, Training and Competence pages
- Home Office Administration pages
- Drug Ordering page

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Also: https://unioxfordnexus.sharepoint.com/sites/BMED-JohnRadcliffe

- SOPs and risk assessments
- Ordering and animal suppliers
- Booking calendars





3. COSHH Assessment (Required if Hazardous Substances Are Being Used)

University of Oxford CoSHH Assessment Form		
Department:	NDCLS (RDM)	
Location of Work:	BMS JR	
Persons involved:	All trained Laboratory Personnel	

Description of procedure:

Handling of laboratory animals for scientific experimentation

Substances used	Quantities used	Frequency of use	Hazards identified	Exposure route
Laboratory animal allergens (urine, fur, saliva, skin cells, faeces)	exposure from handling cannot be quantified	ranges from daily to two- to-three times a week for an hour, to several hours a day for experiments, depending on the team member	Sensitisation (<3 per 1,000 workers: rhinitis, conjunctivitis; <2 per 1,000 workers asthma, urticaria, extremely rare: anaphylaxis [Draper et al, 2003, Occup Environ Med 60(8) 604-605, PMID: 12883023])	inhalation, skin

Could a less hazardous substance (or form of the substance) be used instead? No

If 'Yes', justify not using it:

4. Additional Considerations

Is health monitoring	
required? (e.g. hearing	Yes, Health Surveillance is necessary for all staff potentially exposed to
test, eye test,	Laboratory Animal Allergens (LAA). All staff and users of BMS JR must
respiratory health	register with the University Occupational Health Service and complete
surveillance). If yes,	the Health Surveillance (HS1) form.
specify details	
What personal	Gown, nitrile gloves, over sleeves and dedicated footwear or overshoes,
protective equipment	hair nets. Respiratory protection must be worn when entering a room
is required? (e.g.	that houses rodents in open topped cages; users need to be face fit
labcoat, gloves,	tested for this.
respiratory equipment,	tested for this.





ove protection)	
eye protection)	Markadian and Allaham wasta governor into a share a series and
Waste disposal	Waste disposal: All sharp waste must go into a sharps container and
information (if	needles must never be re-sheathed. Refer to Risk Assessment BMSJR
applicable)	SOP 44 on the BMS JR Users' SharePoint Group.
	All biological and tissue waste into the appropriate clinical waste bins
	All biological and tissue waste into the appropriate clinical waste bins.
	Refer to Waste Management SOP: BMS JR SOP 137 on the BMS JR
	Users' SharePoint group:
Action to take in case	
of emergencies (e.g.	If necessary, evacuate building – all escape routes are clearly signed and
fire, overheating, loss	kept clear. See BMS JR 118 on the BMS JR User's SharePoint group
of electricity, flooding	
etc.)	
First aid measures	Arrange for First Aid to be administered to the casualty. Once the
	casualty has been treated, fill in the Accident, Incident, Disease and
	Near Miss Reporting book. See the BMS JR Health and Safety section on
	BMS JR Users' SharePoint group (in particular BMS JR SOP 138). If there
	is exposure to potentially infectious material, contact Occupational
	Health Services (OHS) <u>immediately</u> on:
	01865 (2)82676 or 07553 639013
	(OHS hours are 08:30 to 17:00 Mon-Thurs & 08:30 to 16:00 Fri)
	If outside of OHS operating hours, telephone the on-call microbiologist
	via the John Radcliffe Hospital switchboard (01865 741166) and go to
	the Accident and Emergency Department at the John Radcliffe Hospital
	if deemed appropriate by the microbiologist.
Is out-of-hours/lone	Yes, this is required for some experiments / models, to ensure animals
working allowed? If	are monitored appropriately. Anyone attending the BMS building uses a
_	
yes, specify any	group WhatsApp to notify the rest of the team when they are entering
additional conditions/	and when they are leaving BMS. Be aware of any suspicious vehicles
requirements Is additional training	circulating. Also refer to BMS JR SOP 135. Animal handling and Home Office Animal Management Course training
required? If yes,	
specify details	is necessary before starting any work.
specify details	Refer to SOP AW 10 about handling animals for routine husbandry and
	procedural work on the BMS JR Users' SharePoint group.
	procedural work on the bivis in osers shaleroint group.
Is specific supervision	
required? If yes,	Yes. Competency record needs to be signed off by the assigned 'parent'
specify details (e.g.	or 'grandparent' supervisor. These records are electronic and are on
	BMS JR Users' MCMS Website
competency record	DIVID JV OSELS INICINIS MEDSITE
sign-off)	
Do any special considerations need to	Vac Inform the Departmental Safety Officer (DSO) BMS IB and the
be taken into account	Yes. Inform the Departmental Safety Officer (DSO), BMS JR and the
	University Occupational Health Service to determine what measures
for expectant or	need to be implemented
nursing mothers?	Voc. Inform the Departmental Safety Officer /DSC). BMC ID and II.
Do any special	Yes. Inform the Departmental Safety Officer (DSO), BMS JR and the
considerations need to	University Occupational Health Service to determine what measures
be taken into account	need to be implemented





for persons with limited mobility?	
Do any special	
considerations need to	Yes. Inform the Departmental Safety Officer (DSO), BMS JR and the
be taken into account	University Occupational Health Service to determine what measures
for persons with pre-	need to be implemented, in particular any pre-existing allergies to any
existing health	animals or respiratory conditions such as asthma
conditions?	
Do any special	
considerations need to	
be taken into account	All visitors require the same level of clearance from BMS
for young persons with	(https://unioxfordnexus.sharepoint.com/sites/BMED-
limited experience	JohnRadcliffe/SitePages/Security-and-Access.aspx)
(e.g. work experience students)?	





5. Record of Acknowledgement

By signing below, I agree that:

- 4.1 I have read and I understand the contents of this document and will work in accordance with this risk assessment
- 4.2 My supervisor/manager agrees that, subject to having received any further relevant training for procedures associated with this risk assessment, I am able to perform work covered by this risk assessment
- 4.3 I understand that further 'on the job' or other training supervision may be required before working independently
- 4.4 I understand that I may discuss my needs with my supervisor or line manager

Staff Member/Post-Graduate Student/Visitor				
Name	Position	Signature	Date	