

Health & Safety Co-ordinator

H&S Responsibilities

• Queen's University Safety Policy:

'It is the University's policy to ensure, so far as is reasonably practicable, the health, safety and welfare of all its staff and students...'

Ultimate responsibility: The Vice Chancellor & Senate

School responsibility: HOS Supervisors Laboratory Managers & Technicians You

- You have a legal obligation to prevent accidents and personal injury to yourself, colleagues and members of the public
- You are required to co-operate with your Supervisor in matters of H&S
- You must not intentionally interfere with anything provided for the purposes of H&S

Hazards You May Encounter

Due to Location when sampling in the field;

- Water
- Heights,
- Adverse Weather
- Unfriendly Animals

Due to Nature of experimental work;

- Radiation
- Infectious agents
- Toxic/Flammable/Explosive/Carcinogenic or Teratogenic Chemicals



Risk Assessments:

Assess Risk:-

- 1. Identify hazards
- 2. Devise working procedure to minimise risk Risk = Hazard x Likelihood

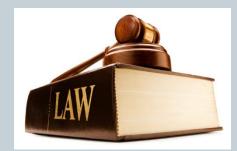


Record Risk Assessment

Risk Assessments only required where there are identified hazards

Project work: Supervisors' H&S responsibilities

- Supervisors are responsible for ensuring all projects are properly risk assessed, documented and comply with H&S requirements: Fieldwork, COSHH, radiation, GMO etc.
- Supervisors must ensure students complete risk assessments
- Discuss RA and complete under guidance of Supervisor
- Risk Assessments are there to protect you
- Risk assessments should be completed before commencing work



Sources of H&S Information

University Safety Service website

https://www.qub.ac.uk/directorates/EstatesDirectorate/UniversitySafetyService/

Local Health & Safety Information available on school webpage http://www.qub.ac.uk/schools/SchoolofBiologicalSciences/



School of Biological Sciences - Webpage

Latest News



LIFE IN THE GINGERBREAD HOUSE: HOW FISH NEED

Life in the gingerbread house: how fish need jellies more than we thought 21 March 2019



LATEST NEWS

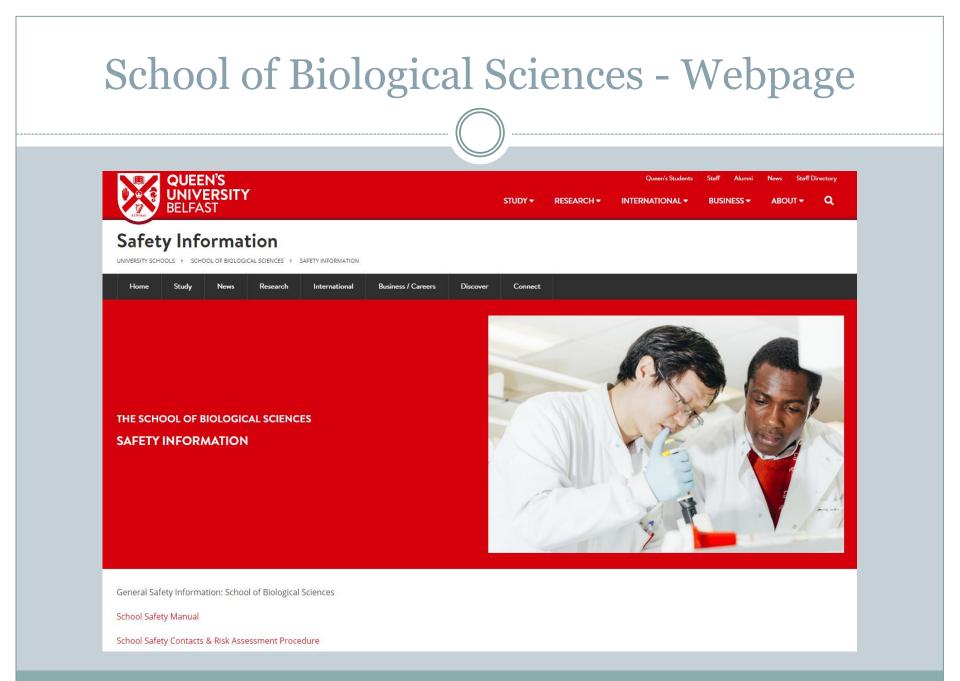
New International Partnership for Vietnamese Students 14 March 2019



LATEST NEWS

Royal Society of Biology Accreditation 7 March 2019

G	ET IN TOUCH	SAFETY INFORMATION		
	Contact Us	About Queen's	Connect	
	T: +44 (0)28 9024 5133	About Queen's	Alumni and Supporters	
	Emergency T: +44 (0)28 9097 2222	Our Research The Campus	Media Contacts Staff Directory	
	© Queen's University Belfast 2019,	Life in Belfast	Ask a Question	
	University Road, Belfast,	International	Contact a School	
1	University Rodu, Bellast,			



School Safety Webpage

General Safety Information: School of Biological Sciences

School Safety Manual

School Safety Contacts & Risk Assessment Procedure

Honours Project Safety

Postgraduate Safety Induction

General Risk Assessment Form

University Safety Services Website

Fieldwork Safety

- Fieldwork Health and Safety (guidance for supervisors)
- Fieldwork Health and Safety Questionnaire
- Guidance on Health and Safety in Fieldwork
- Generic Boating Fieldwork Risk Assessment and Guidance Notes
- Generic Intertidal Fieldwork Risk Assessment and Guidance Notes
- River Fieldwork Risk Assessment+Guidance notes
- Terrestrial Fieldwork Risk Assessment+ Guidance

Biological Safety

- Infectious Agents & GMO's
- GM Animal Risk Assessment
- GM Plant Risk Assessment
- GMM Risk Assessment
- QUB GMO Induction
- QUB Genetic Modification Code of Practice
- BioCOSHH Risk Assessment

Chemical Safety

- COSHH flowchart
- COSHH guidance
- QUB COSHH Risk Assessment

School Safety Contacts & RA Procedure

General Safety Information: School of Biological Sciences

School Safety Manual

School Safety Contacts & Risk Assessment Procedure

School Safety Contacts:

- H&S Co-ordinator Dr Rosaleen Hynes r.hynes@qub.ac.uk
- COSHH Adviser Ms Katrina O'Connor <u>biolsci.safety@qub.ac.uk</u>
- Radiation Protection Adviser Dr Kostya Panov <u>k.panov@qub.ac.uk</u>
- Biohazards/GMO Safety Adviser Dr Mark Robinson <u>mark.robinson@qub.ac.uk</u>
- Environmental/Fieldwork Adviser Ms Gillian Riddell g.riddell@qub.ac.uk
- Diving & Boating Officer & QML H&S Contact- Mr Simon Exley <u>s.exley@qub.ac.uk</u>
- IGFS H&S Contact Dr Brett Greer <u>brett.greer@qub.ac.uk</u>
- University Biological Safety Officer Dr David Norwood <u>d.norwood@qub.ac.uk</u>

School Contacts & RA Procedure

Risk Assessments:

Completed RAs to be submitted electronically to the appropriate adviser for approval:

COSHH: - hazardous chemical substances and/or carcinogens, mutagens.

Complete the QUB COSHH RA → COSHH Adviser – Ms Katrina O'Connor biolsci.safety@qub.ac.uk

BioCOSHH - biological materials, infectious agents

Complete QUB bioCOSHH RA \rightarrow Biohazards/GMO Safety Adviser - Dr Mark Robinson mark.robinson@qub.ac.uk

GMO – All GM work must be registered with HSE (NI) - requires initial QUB approval:

Complete appropriate GMM RA, GM Plant RA or GM Animal RA \rightarrow University Biological Safety Officer – Dr David Norwood <u>d.norwood@qub.ac.uk</u>

Fieldwork:*

Complete appropriate School of Biological Sciences Fieldwork RA (Terrestrial/River/Intertidal) → Environmental/Fieldwork Adviser - Ms Gillian Riddell g.riddell@qub.ac.uk

Boating: *

Complete School of Biological Sciences Boating $RA \rightarrow Diving \& Boating Officer - Mr Simon Exley <u>s.exley@qub.ac.uk</u>$

Diving: Contact Simon Exley s.exley@qub.ac.uk for further guidance

*School Health & Safety Questionnaire must also be completed

A Lone Working form should be completed if required

Risk Assessments

QUB COSHH & BioCOSHH -school safety webpage

Biological Safety

- Infectious Agents & GMO's
- GM Animal Risk Assessment
- GM Plant Risk Assessment
- GMM Risk Assessment
- QUB GMO Induction
- QUB Genetic Modification Code of Practice
- BioCOSHH Risk Assessment

Chemical Safety

- COSHH flowchart
- COSHH guidance
- QUB COSHH Risk Assessment

COSHH Risk Assessment Form

A COSHH risk assessment must be conducted before you commence work which could expose you to substances hazardous to health.

Section 1: Project Details

Undergraduate Practical / Project	Masters	Postg	raduate	Postdoctoral	Staff	Oth
Group or teachin (if applicable)	g year:					
School / Centre:						
Title of project or	activity:					
Location of work (building and room						
Principal Investig	ator / Superv	visor:				
Person carrying	out assessme	ent:				
Assessment Date			Review	/ Date:		
Detailed descript (Include quantities used and how they mixed, heated etc.	of substances are to be use	s to be				

Section 2: Hazard Summary Section







A BioCOSHH risk assessment is required for work with biological agents and hazards. The form should be by the principal investigator. The possession or use of any Hazard Group 3 biological agent or the Hazar agents Bordestile perturbit, Corynebactorium diphthoriae and Neizzeria meningitidir requires permission Safer Service

BioCOSHH Risk Assess

Title/Aim of project	
Principal investigator/	
Responsible person	
School	
Date of assessment	
Location of work	
(Buildings and room numbers)	

Section 1 Project or Activity

1.1: Brief description of project or a

2.1: Biological agents or hazards					
Pathogens (ACDP/DEFRA Hazard Group 1)					
Pathogens (ACDP/DEFRA Hazard Group 2)					
Pathogens (ACDP/DEFRA Hazard Group 3)					
Toxins					
Carcinogens					
Allergens					
Human primary or continuous cell cultures					
Animal primary or continuous cell cultures					
Human cells or tissues					
Human blood or blood components					
Other human samples (Sputum, Pus, Urine,					
Faeces, Other bodily fluids)					
Patient contact					
Animals (Laboratory/Domestic/Farm/Wild)					
Animal cells or tissues					
Plants					
Soils					
Other biological hazards					
If a respiratory pathogen risk of aerosols freeze d	ried culture please provide details in Section 3.4				

2.3: Potential routes of infection		
Inhalation 🗌 Ingestion 📄 Injection 🗌 Absorption 🗆	Other 🗌	Select all that apply

Safety Contacts & Risk Assessment Procedure

Risk Assessments:

Completed RAs to be submitted <u>electronically</u> to the appropriate adviser for approval:

COSHH: - hazardous chemical substances and/or carcinogens, mutagens.

Complete either the School of Biological Sciences COSHH RA/QUB COSHH RA → COSHH Adviser – Ms Katrina O'Connor <u>biolsci.safety@qub.ac.uk</u>

BioCOSHH – biological materials, infectious agents

Complete QUB <u>bioCOSHH</u> RA → Biohazards/GMO Safety Adviser - Dr Mark Robinson <u>mark.robinson@qub.ac.uk</u>

GMO – All GM work must be registered with HSE (NI) - requires initial QUB approval:

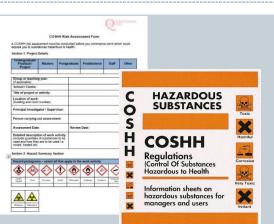
Risk Assessments:

COSHH RA also includes:

- Disposal
- Accidental Spillage/Exposure
- Appropriate PPE (lab coat, gloves, safety glasses)
- Consult Material Safety Data Sheets (MSDs) Sigma Aldrich

Approved RA in place

 Add name, read and sign to confirm following procedure – retain copy in laboratory workbook



GMO & Radiation Risk Assessments

- <u>GMO</u> All GM work registered with HSE (NI) requires approval from within QUB
- Discuss with PI
- GMO Induction on school safety webpage



- <u>RADIATION</u> Must be registered for work within the school
- Radiation Adviser Dr Kostya Panov <u>k.panov@qub.ac.uk</u>
- Lab bench training provided and recorded
- QUB COSHH RA required



Risk Assessments: Fieldwork

• Generic Fieldwork RAs with guidance notes– School safety webpage eg. Terrestrial/River/Intertidal

Fieldwork Safety

- Fieldwork Health and Safety (guidance for supervisors)
- Fieldwork Health and Safety Questionnaire
- Guidance on Health and Safety in Fieldwork
- Generic Boating Fieldwork Risk Assessment and Guidance Notes
- Generic Intertidal Fieldwork Risk Assessment and Guidance Notes
- River Fieldwork Risk Assessment+Guidance notes
- Terrestrial Fieldwork Risk Assessment+ Guidance



• Fieldwork – Environmental/Fieldwork Adviser - Ms Gillian Riddell <u>g.riddell@qub.ac.uk</u>

Risk Assessments: Fieldwork

Tailor to your own situation – exclude irrelevant details
Visit/gain knowledge of site before completing the RA



• Diving & Boating Officer - Simon Exley <u>s.exley@qub.ac.uk</u>

Risk Assessments: Fieldwork

In addition to RA all students must complete Health & Safety
 Questionnaire – held by Supervisor in confidence or consult with
 University Occupational Health
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Please fill out this CONFIDENTIAL Health and Safety questionnaire and return it to your supervisor - this is required both to ensure your health and safety and to comply with University Student Name IF YOU HAVE A CONDITION WHICH MAY AFFECT YOUR HEALTH AND SAFETY BUT YOU DO NOT WISH TO COMPLETE THIS QUESTIONNAIRE OR TO DISCUSS IT WITH YOUR SUPERVISOR, PLEASE TICK THIS BOX D AND ARRANGE AN APPOINTMENT WITH DR. TODD IN QUB OCCUPATIONAL HEALTH TO DISCUSS THIS IN CONFIDENCE Do you currently or have you suffered in the last ten years from any of the following Heart and Circulatory Disorders Yes Heart problems (including angina, murmurs or valve problems High Blood Pressure Low Blood Pressure Π Reynaud's Disease If yes to any of above, does this stop you from doing physical exe ase state what you would not be happy doing Medical Conditions

- Supervisor's responsibility to check if health surveillance required eg. Poultry Exposure to asthmagens consult with University Occupational Health
- Lone Working not permitted

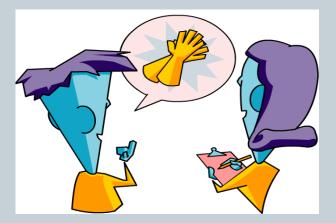
Risk Assessments:

- All risk assessments should be completed under the guidance of your supervisor and then submitted electronically to the appropriate school safety adviser for approval.
- Safety adviser may provide feedback and further guidance before approving
- Approved risk assessments should be signed and copies retained by those carrying out the procedure, their supervisor and the appropriate school safety adviser.
- <u>Retain a copy in your laboratory workbook</u>



Project work: Supervisors' H&S responsibilities

- Supervisors are responsible for:
- Providing suitable and sufficient training and instruction
- Ensuring you are competent and understand risks & controls
- Providing appropriate supervision to ensure you are following the correct procedures



Fitness to Work

Inform Supervisor of medical conditions relevant to role:

- Back injuries
- Disabilities
- Awaiting/recovery from surgery
- Pregnancy/ recent childbirth
- Temporary ill health



• Advice from University Occupational Health Service

Emergencies

Medical emergency: Illnesses, accidents....

- Contact Local First Aider
- Familiarise yourself with location of local first aid equipment and qualified first aiders.
- First Aid Contact Lists displayed in labs and on all first aid boxes.

Major Allergies – advise Supervisor/Academic in charge

Defibrillator – Ground Floor Reception Area

• List of trained personnel contacts





Lone Working/Out-of-hours working

Normal Working Hours 7:00am – 7:00pm Monday – Friday Lone working not normally permitted for UGs

- Exceptional Circumstances Application through Supervisor
- Low risk procedures
- Specific Lone working application and approval process

Exceptional Circumstances:

- Out of Hours Security 2222
- Know local emergency number



Emergencies Fire!

Discover A Fire:

- Know how to raise the alarm (shout Fire/ break glass points)
- Know all Emergency Exit routes
- Know Assembly points
- Evacuate immediately no matter what!
- Report details to fire personnel





Fire

- On hearing the fire alarm:
- Immediately evacuate the building by the nearest emergency exit
- Do not use lift
- Assemble at the designated assembly point:



Footpath on Chlorine Gardens or Lennoxvale

• Do not re-enter the building until you are told to do so by a fire warden or other personnel responsible for fire safety

Weekly Fire Alarm Test (Tuesday Morning- short ring)

Accident & Incident Reporting

- Report all accidents/incidents to staff member in charge even when no treatment is required
- Report accidents ASAP
- Accident Recorded by relevant staff
- First Aid Required complete Accident Book (School Office Mary Devlin)
- Co-operate in documenting what occurred/was witnessed
- Report incidents of verbal or physical abuse





HSE Book

Safe Use of Work Equipment

- QUB approved equipment only
- School responsible for maintenance & testing
- Report defects
- Switch off after use



Slips, Trips and Falls

- Prompt cleaning of spillages
- No tripping hazards, such as trailing leads
- Reporting of defects in floors and stairs
- Suitable footwear





Need advice? Points of contact within School

Supervisor

- H&S Co-ordinator Dr Rosaleen Hynes <u>r.hynes@qub.ac.uk</u>
- COSHH Adviser Ms Katrina O'Connor <u>biolsci.safety@qub.ac.uk</u>
- Radiation Protection Adviser Dr Kostya Panov <u>k.panov@qub.ac.uk</u>
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- School Safety Webpage -

http://www.qub.ac.uk/schools/SchoolofBiologicalSciences/SafetyInformation/