# Table of Contents

About the BMSF Laboratories ................................................................. 3
Access Requirements - normal & after-hours ........................................... 3
Your Responsibilities at BMSF ................................................................. 3
Laboratory Inductions .............................................................................. 4
Training requirements ............................................................................. 4
Personal Protective Equipment ............................................................... 5
Risk Assessments and Risk Management Forms ...................................... 5
Safe Work Procedures ........................................................................... 5
Reporting Hazards and Incidents ............................................................. 5
OHS Consultation ................................................................................... 6
Chemical Storage .................................................................................... 6
Waste Disposal ...................................................................................... 6
Local HS web resources .......................................................................... 8
Data File Policy ...................................................................................... 9
Emergency Response Plan ...................................................................... 9
C27 Wallace Wurth Laboratory Information ............................................. 10
  Local Area Hazards and Risks (C27) ......................................................... 10
  Emergency Contacts (C27) ..................................................................... 10
  Emergency Assembly Point (C27) .......................................................... 10
E26 Biosciences Precinct Laboratory Information .................................... 11
  Local Area Hazards and Risks (E26) ......................................................... 11
  Emergency Contacts (E26) ..................................................................... 11
  Emergency Assembly Point (E26) .......................................................... 11
F10 Chemical Sciences Laboratory Information ....................................... 12
  Local Area Hazards and Risks (F10) ......................................................... 12
  Emergency Contacts (F10) ..................................................................... 12
  Emergency Assembly Point (F10) .......................................................... 12
Appendix ............................................................................................... 13
  Laboratory Map for BMSF at C27 Wallace Wurth ................................ 13
BMSF Laboratory Manual

Laboratory Map for BMSF at E26 Biosciences Precinct..............................................................14
Laboratory Maps for BMSF at F10 Chemical Sciences...............................................................15
Lab B32........................................................................................................................................15
Lab B50........................................................................................................................................16
About the BMSF Laboratories

There are three BMSF laboratories across the UNSW Kensington Campus:
1. Wallace Wurth (C27), Level 4 NW
2. Chemical Sciences (F10), Basement
3. Biosciences Precinct (E26), Level 2 S

Access Requirements - normal & after-hours

Normal business hours are Monday to Friday, 8:00 AM – 6:00 PM. All inducted users to the BMSF will have this access.

After-hours access is granted ONLY when the relevant after-hours application is completed and approved by the Director of BMSF. This will depend on the nature of the work to be performed, the user’s experience and successful completion of the relevant paperwork. Users should contact the Laboratory Coordinator if they wish to request after-hours access.

AFTER HOURS = 6:00 PM – 8:00AM + ALL HOURS ON WEEKENDS AND HOLIDAYS

Your Responsibilities at BMSF

Your responsibilities as a BMSF user are to:

- **Participate** in applicable induction and training programs
- **Make proper use** of all safety devices and personal protective equipment (PPE)
- **Maintain high standards of personal hygiene** when working with hazardous substances - all researchers working at the BMSF are expected to keep their respective areas free of clutter at the end of the day
- **Report** any defects to equipment, accidents and unsafe incidents to BMSF staff as soon as possible
- **Understand that access is for inducted users only.** Swipe cards must not be shared with other users. This is a breach of safety regulations
- **NOT bring visitors or other researchers** without previous approval from the Director or Laboratory Coordinator. This is a breach of safety regulations
- **Follow safe work practices at all times** (including storage, waste minimization and disposal, and safe handling), and encourage others to do the same
- **Co-operate with any legislated or reasonable policy or procedure** relating to
health and safety (i.e. UNSW HS policies, procedures and guidelines and BMSF HS protocols)

➢ Seek information or advice regarding hazards and procedures before carrying out new or unfamiliar work

External users may pick up a visitor’s card from reception on arrival. Visitor’s cards must be returned by 6:00 PM on the same day they are issued. 

Users who do not follow the lab rules will have their access revoked.

Laboratory Inductions

Inductions are arranged through the Laboratory Coordinator after BMSF staff determine that you will require one.

Each BMSF laboratory requires a separate induction in order to gain access.

Induction consists of:

➢ Visiting our BMSF Inductions webpage
➢ Registering to the BMSF node on ACLS
➢ Submitting a completed Project Registration Form (PRF). This is to be completed by you and approved by your supervisor. Your supervisor is to send the form to the Laboratory Coordinator as approval
➢ Reading the required documents on SafeSys (when applicable)
➢ Correctly answering all questions in the relevant questionnaire for each lab
➢ Attending an induction tour. Registrations are through Eventbrite

Training requirements

Laboratory inductions do not constitute automatic access to an instrument.

Once inductions are complete, you will be able to arrange training on one of the BMSF mass spectrometers or associated equipment.

Training on the mass spectrometers requires one-on-one training with a BMSF staff member.

You will also be required to read and “Declare as Read” the relevant safety documentation on Safesys. Your trainer will advise you about this during training.
Personal Protective Equipment

Fully enclosed footwear is required in the wet lab (PC1) and instrument lab areas. Lab coats, safety glasses, and gloves must be worn in the PC1 laboratory and should not be worn in the instrument laboratory, office areas, kitchen areas, bathrooms or passenger lifts.

All PPE required, excluding enclosed footwear, are provided by the BMSF as general use items for all users.

BMSF door handles are “Gloves off”.

Risk Assessments and Risk Management Forms

Risk Management Forms (RMF) have been completed for the operation of all major equipment and for the preparation of routine samples and common solutions used within the laboratory.

Risk Assessments are completed when users are performing procedures that are unique or not within the scope of the existing risk assessments. Users are required to complete a RMF form for each of these new procedures and have the forms approved by a BMSF staff member (normally the trainer/BMSF supervisor) before commencing work in the laboratory.

Safe Work Procedures

The purpose of SWPs is to inform the operator of the safest way to perform a procedure. SWPs are available for each major instrument and are displayed near the relevant instrument. An electronic copy is also available on Safesys.

On successful completion of instrument training, users are required to acknowledge that they are aware of, and competent in, the correct operation of the instrument by declaring the SWP as read on Safesys.

Reporting Hazards and Incidents

Staff and students should report hazards and incidents by notifying a BMSF staff member first then online via myUNSW.

Visitors external to the university will need to report the incident or hazard to a BMSF
staff member so a report can be lodged on their behalf.

**OHS Consultation**

Contact Sydney Liu Lau, BMSF Laboratory Coordinator, for any safety related matters you wish you raise.

**Chemical Storage**

Laboratory chemicals are stored in the appropriate chemical cabinet (eg, flammables, corrosives, toxic, etc).

The location of chemical cabinets at all BMSF lab will be shown as part of induction.

**Waste Disposal**

There are several types of waste throughout the PC1 and instrument labs:

1. Gloves waste (*BMSF Chemical Sciences F10 only*)
2. Domestic waste – do not dispose of gloves, samples, tubes, etc here
3. Contaminated vial waste
4. Biohazard waste (*BMSF Biosciences Precinct E26 and Wallace Wurth C27 only*) – gloves disposed of here
5. Broken glass waste – clean and contaminated
6. Sharps waste (in sharps bin)
7. Non-halogenated, halogenated waste and HPLC waste
8. Cardboard waste – if there are many boxes, they are to be disposed of in the nearest blue bins, outside the labs

Refer to the Waste Disposal Guide on the following page.
### WASTE DISPOSAL GUIDE

<table>
<thead>
<tr>
<th>TYPE OF WASTE</th>
<th>CORRECT WASTE</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gloves and contaminated paper</td>
<td>Gloves waste bin</td>
<td>Gloves and contaminated paper must go into the biological solid waste OR gloves waste bins.</td>
</tr>
<tr>
<td>Objects with sharp points or edges, broken capillaries, syringes, needles, etc.</td>
<td>Sharp bins</td>
<td>Objects with sharp points or edges, broken capillaries, syringes, needles, etc. must go into the sharp bins.</td>
</tr>
<tr>
<td>Clean broken glass only. No contaminated glass or vials.</td>
<td>Clean glass waste</td>
<td>Clean broken glass only. No contaminated glass or vials.</td>
</tr>
<tr>
<td>Capped vials only, partially empty</td>
<td>Capped vials</td>
<td>Capped vials only, partially empty</td>
</tr>
</tbody>
</table>
Contaminated glass waste
Glass containing organic solvents must be dry in the fume hood before disposing.

Halogenated Waste
Liquid waste containing F, Cl, Br, or I

Non-halogenated Waste
Liquid Waste that does not contain F, Cl, Br, or I

If you have any questions about waste disposal in the lab, please speak to the Laboratory Coordinator.

Local HS web resources

- UNSW Health and Safety Website (https://safety.unsw.edu.au/)
- Chemical Inventory: Jaggaer (https://erm.jaggaer.com/unsw/erd-client)
- Plant and Equipment Register: Safesys (https://safesys.unsw.edu.au/)
- Hazard and Risk Register: Safesys (https://safesys.unsw.edu.au/)
Data File Policy

The BMSF provides all researchers with the ability to effectively and efficiently collect, save, transfer and store their research data including access to centrally supported IT resources for data storage and archiving.

However, all researchers must ensure that they safely back-up and archive their own research data, as part of their overall project plan. The BMSF will not take any responsibility for lost or damaged files.

We recommend each user copy their files for local storage and back up on their personal computers. If copying files to a USB device, the device must first be virus checked on the user’s personal computer before being inserted into a BMSF data analysis computer.

**Under no circumstances should a USB device be inserted into an instrument computer.**

Emergency Response Plan

1. Warning alarm sounds *(beep-beep)* indicate you should cease work and make the area safe for your departure.

2. Once the second evacuation alarm sounds *(whoop-whoop)* and/or verbal instructions by the emergency warning system are heard, occupants should evacuate the building via the closest fire stairs and assemble in the designated assembly point (see below for diagrams for each lab). NB: Do not use stairs other than the fire stairs as **only fire stairs allow occupants to safely exit the building.**

Local Emergency Evacuation Procedure

Oxygen monitors are located in both the PC1 and instrument labs. If the level of oxygen drops from 21% to 19% an alarm will sound and the indicator lights in the laboratory will illuminate. If this happens you are required to leave the BMSF immediately; however, you may remain in the building.
C27 Wallace Wurth Laboratory Information

Local Area Hazards and Risks (C27)

Wet Lab Areas (402, 402A): chemical, biological, high voltage, moving parts, sharps and low temperatures

Instrument Area (401): chemical, moving parts, sharps, high temperatures, magnetic fields, and poor air quality

Emergency Contacts (C27)

**UNSW Security (Emergencies):** 9385 6666 or x 56666

**UNSW Security (General):** 9385 6000 or x 56000

**University Health Service (Quadrangle Building):** 9385 5425 or x 55425

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark Raftery</td>
<td>BMSF Director</td>
<td>x 51892</td>
</tr>
<tr>
<td>Martin Bucknall (Fire Warden)</td>
<td>Principal Scientist</td>
<td>X 54707</td>
</tr>
<tr>
<td>Sydney Liu Lau (First Aid Officer)</td>
<td>BMSF Laboratory Coordinator</td>
<td>x 59115</td>
</tr>
</tbody>
</table>

Emergency Assembly Point (C27)

The assembly point for BMSF (C27 – Wallace Wurth) is **Michael Birt Gardens, through Gate 9.**

Do not assemble at the gate – this is for emergency vehicles to enter.
E26 Biosciences Precinct Laboratory Information

Local Area Hazards and Risks (E26)

Wet Lab Area (2002): chemical, biological, high voltage, moving parts, sharps and low temperatures

Instrument Area (2012): chemical, moving parts, sharps, high temperatures, and poor air quality

Emergency Contacts (E26)

UNSW Security (Emergencies): 9385 6666 or x 56666
UNSW Security (General): 9385 6000 or x 56000
University Health Service (Quadrangle Building): 9385 5425 or x 55425

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russ Pickford</td>
<td>Small Molecules Team Leader</td>
<td>X 52952</td>
</tr>
<tr>
<td>Mark Raftery</td>
<td>BMSF Director</td>
<td>x 51892</td>
</tr>
<tr>
<td>Sydney Liu Lau</td>
<td>BMSF Laboratory Coordinator</td>
<td>x 59115</td>
</tr>
<tr>
<td>Helen Speirs &amp; Erika Becker</td>
<td>Ramaciotti Laboratory Staff</td>
<td>x 51241</td>
</tr>
<tr>
<td>(Fire Wardens)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jackie Chan</td>
<td>Ramaciotti Laboratory Staff</td>
<td>x 51237</td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Emergency Assembly Point (E26)

The assembly point for BMSF (E26 – Biosciences Precinct) is **Botany St Apron.**
F10 Chemical Sciences Laboratory Information

Local Area Hazards and Risks (F10)

Wet Lab Area (B32): chemical, moving parts & sharps
Instrument Area (B50): chemical, moving parts, sharps and high temperatures

Emergency Contacts (F10)

UNSW Security (Emergencies): 9385 6666 or x 56666
UNSW Security (General): 9385 6000 or x 56000
University Health Service (Quadrangle Building): 9385 5425 or x 55425

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lewis Adler (First Aid Officer and Fire Warden)</td>
<td>Senior Technical Officer</td>
<td>x 57739</td>
</tr>
<tr>
<td>Russ Pickford</td>
<td>BMSF Small Molecules Team Leader</td>
<td>X 52952</td>
</tr>
<tr>
<td>Mark Raftery</td>
<td>BMSF Director</td>
<td>x 51892</td>
</tr>
<tr>
<td>Sydney Liu Lau</td>
<td>BMSF Laboratory Coordinator</td>
<td>x 59115</td>
</tr>
</tbody>
</table>

Emergency Assembly Point (F10)

The assembly point for BMSF (F10 – Chemical Sciences) is The Village Green.
Appendix

Laboratory Map for BMSF at C27 Wallace Wurth
Laboratory Map for BMSF at E26 Biosciences Precinct

- 2002
  - PC1 lab

- 2012
  - Instrument room

LEGEND:
- Emergency stop
- Fire extinguisher
- First Aid Kit
- Emergency Shower & Eyewash Station
- Fire Exit
Laboratory Maps for BMSF at F10 Chemical Sciences

Lab B32

<table>
<thead>
<tr>
<th>LEGEND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency stop</td>
</tr>
<tr>
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<td>First Aid Kit</td>
</tr>
<tr>
<td>Emergency Shower &amp; Eyewash Station</td>
</tr>
<tr>
<td>Fire Exit</td>
</tr>
</tbody>
</table>

BMSF PC1 Lab

NMR Lab

BMSF Balances
Lab B50

- **B47**: Staff-only area
- **B48**: BMSF Staff Offices
- **B50**: Instrument lab
- **B51**: Staff-only area
- **B52**: Staff-only area

**LEGEND**
- Emergency stop
- Fire extinguisher
- First Aid Kit
- Emergency Shower & Eyewash Station
- Fire Exit