

CONTACT

Yingyi ZHANG
RM 2230
Biological Cryo-EM Center
LIFS/HKUST
Office 2358 8167
Handy 6708 6386
yizhang@ust.hk

Security
Call 2358 8999

LAB SAFETY RULES

LN₂ • ETHANE • O₂ LEVEL • UA STAINING

HANDLE OF LIQUID NITROGEN (LN₂)

- LN₂ IS AT -196°C, MAY CAUSE LOW TEMP BURNING, HANDLE WITH GREAT CAUTION.
- LARGE AMOUNT OF LN₂ EVAPORATION IN A SMALL ROOM COULD BE VERY DANGEROUS, MAY CAUSE A LACK OF O₂, AND LEAD TO HYPOXIA, ASPHYXIATION AND, IN SEVERE CASES, DEATH.

HANDLE OF ETHANE (C₂H₆)

- ETHANE, NON TOXIC, BUT **FLAMMABLE!**
- LEAKING OF ETHANE INTO ATMOSPHERE MAY CAUSE FIRE, OR EXPLOSION.
- **DO NOT USE CELL PHONE OR OTHER ELECTRONIC DEVICES IN THE SAMPLE PREPARATION ROOM A (2230M).**
- **LEAVE THE DOOR OF 2230M ALWAYS CLOSED.**
- TURN OFF THE C₂H₆ SUPPLY AFTER USAGE.
- INFORM EM STAFF IF ANY UNUSUAL CASE IS NOTICED.

IN EM LAB, PAY ATTENTION TO THE O₂ LEVEL.

- WHEN YOU HEAR THE ALARM FROM THE O₂-METER OR YOU NOTICE THE O₂ LEVEL IS RUNNING LOW, LEAVE THE ROOM IMMEDIATELY AND REPORT TO EM STAFF AND SECURITY.

- EM STAFF AND SECURITY COULD AVOID OTHER PEOPLE COME INTO THE ROOM BEFORE THE SITUATION IS CLEAR.

☢ **HANDEL URANYL ACETATE (UA) STAINING**

- PREPARE UA SOLUTION AND NEGATIVE STAINING GRIDS ONLY IN RM 2230K. USE FUME HOOD WHEN NECESSARY.
- **SEAL UA OR OTHER RADIATION MATERIALS PROPERLY AFTER USAGE.**
- LEAVE THE UA WASTES IN THE RADIATION WASTE BIN. ASK EM STAFF IF YOU DON'T KNOW WHERE IT IS.

FOR YOUR OWN SAFETY, IF YOU NOTICE ANY RISKY/ UNPROPER BEHAVIOR IN THE LAB, PLEASE REPORT TO EM STAFF.

IF YOU'D LIKE TO SUBSCRIBE TO THE HKUST CRYO-EM USER MAILING LIST, SEND EMAIL TO EM STAFF, WITH YOUR NAME AND LAB.