

## **Safety Measures for Working in the CCB Magnetic Resonance Laboratory (CCB MRL)**

- 1. The CCB MRL is restricted to only trained users and those with permission.**
- 2. No one with pace maker is allowed to enter the lab.**
- 3. Those people with stents, metal clips, or metal nails installed in the body should consult with the lab staff before entering the lab. (In general, it is safe if the stents have been installed for more than a year, and if any other metal devices are made of stainless steel.)**
- 4. No food or drink is allowed in the lab.**
- 5. Lab coat and gloves should be taken off before entering the lab.**
- 6. Credit cards, cell phones, mechanical watches, ID cards should be removed from your pocket and placed on the work bench before approaching the magnet for sample exchange.**
- 7. Do not carry any loose magnetic metal objects with you when approaching magnets.**
- 8. When the fire alarm or the oxygen level alarm goes off, exit from the lab immediately.**
- 9. Wear safety glasses when performing cryogen filling to magnets (for lab staff only).**

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## **Sample Handling**

- Use the highest quality NMR tubes available from the stockroom.**
- Do not dry tubes in oven. Use compressed air or nitrogen to blow-dry instead. If you really need to use oven, set the temperature to below 100 degree C and place the tubes upright in a flask. Do not lay tubes flat on the metal rack.**
- Clean the outside wall of your sample tube with Kimwipes and alcohol before inserting it into the spinner turbine. Grab the top part of the tube so the grease and dirt on your fingers will not get onto the tube wall.**
- Hold the spinner by grabbing its upper part. Avoid touching the lower part of the spinner and the two white dots on the upper part. Clean the lower part of the spinner with Kimwipes.**