

# ICON NMR Instructions

SampleJet Avance III 400 MHz in 0086 EL  
Revision – August 22, 2011

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## FOLLOW DIRECTIONS TO AVOID HARDWARE DAMAGE!!!

*Special SampleJet caps are required. The caps must fit the tube very tightly – if not do not proceed!*

*Only use clean 5mm NMR tubes that are 7" long (Wilmad 528 or better are required!). Do not use tubes that have been cracked in the past. Do not use J-Young tubes or sealed tubes. Longer tubes will damage the instrument; shorter tubes will not lock/shim. Review NMR tube requirements on the website, ie do NOT heat tubes!*

*Do not reboot the computer. Notify the NMR manager immediately via email, phone, or in person for problems.*

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### **LOG INTO ICON**

1. Log into ICON-NMR. You will NOT log into the computer with your network account. There is ONE account for the computer. You will log into ICON NMR with your username/password given.

### **INSERT SAMPLE**

2. Wipe your NMR tube of all grease with a Kimwipe.
3. Open the SampleJet case and put your sample(s) in an empty position – note the number(s). You may turn the carousel with your hands or use the remote. Close the door. If a sample is being inserted/ejected you should NOT open the case until it has finished.

### **CREATE EXPERIMENT(S)**

4. Open the SampleJet and insert sample(s) into an open sample position. Note this position number(s).
5. Find the sample position number(s) that match the position of your sample(s) in ICON-NMR. You may delete 'Finished' experiments to create an experiment in an open sample position. Avoid moving other users' samples unless there are no open positions. *All users are responsible for removing their own samples in a timely manner.*
6. Input the filename, solvent, experiment, etc. into the row numbered the same as your sample position.
7. Click on [ADD] to add an experiment for this sample.
8. Click on [COPY] to copy the same experiment to another sample position.

### **SUBMIT THE EXPERIMENT(S)**

9. Click on [SUBMIT] for each row to queue each experiment separately. All experiments are queued in the order submitted. To remove or edit your experiment, click on [CANCEL], then [DELETE] or [EDIT]. You may not delete other users' experiments unless it is listed as 'Finished'.
10. The experiment queue should always be running. Only the manager may start or stop a run.

### **FINISHING UP**

11. Log out of ICON-NMR by clicking [Change User]. Do NOT log out of the computer.
12. Return later in the day to retrieve your NMR tube. (Email notification coming soon.) Tubes/caps left in the facility will be placed in the fume hood. The facility is not responsible for lost samples.

### **DATA ACCESS and STORAGE**

13. Your data is being stored to the NMR-Saffron NMR network drive automatically (coming soon) within your ICON username in the same directory path as the other instruments.
  14. Your data is also being stored to the local C:/Bruker/TOPSPIN3.0 directory which will only be accessible temporarily.
  15. Process and print your data using the DATA-PC or using your own computer.
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