

# NMR CORE FACILITY - SERVICE REQUEST FORM

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Supervisor/Organization: \_\_\_\_\_

Email: \_\_\_\_\_

Phone / extension: \_\_\_\_\_

Sample ID: \_\_\_\_\_

Keep sample after analysis for pickup or return  
If unchecked, samples will be discarded after the analysis.

Courier Acc # for returns: \_\_\_\_\_

**NEW:** Safety Precautions & Hazard Codes (ex: H313)

Samples with inadequate safety information will be declined

Draw Probable Molecular Structure

## SOLUTION NMR

Solvent \_\_\_\_\_

Weight of Sample (mg) \_\_\_\_\_

300 MHz  400 MHz  500 MHz  600 MHz

- Standard  $^1\text{H}$  spectrum
- $^1\text{H}$  spectrum with water suppression
- Standard  $^{13}\text{C}$  spectrum
- $^{13}\text{C}$  DEPT spectrum
- 2D COSY
- 2D NOESY or ROESY (circle the experiment)
- 2D  $^1\text{H}$ - $^{13}\text{C}$  HMQC or HSQC (circle the experiment)
- 2D  $^1\text{H}$ - $^{15}\text{N}$  HMQC or HSQC (circle the experiment)
- 1D NOE  
Peaks to irradiate (ppm)  
\_\_\_\_\_
- Variable temperature (specify)  
\_\_\_\_\_
- Other (specify)  
\_\_\_\_\_

What do you hope to learn about your sample?

## SOLID-STATE NMR

Weight of Sample (mg) \_\_\_\_\_

200 MHz  400 MHz

- $^{13}\text{C}$  CPMAS
- $^{13}\text{C}$  CPMAS with dipolar dephasing
- $^{29}\text{Si}$  CPMAS
- $^{31}\text{P}$  CPMAS
- Other (specify)  
\_\_\_\_\_  
\_\_\_\_\_

## EPR

Samples must be submitted in quartz EPR tubes

- Paramagnetic metals
- Organic free radicals