

NMR/MRI TRAINING CLASS: BIOSPEC 7T LAB TOPICS

Lab meeting #1:

Safety information
Introduction
Unix; Irix
xwinnmr
Getting & Saving datafiles
Processing data
Inspecting data
Plotting data (hard copy)

Lab meeting #2:

Setting up for data collection
Proper FID acquisition parameters
Acquiring data
Apodization and other data processing

Lab meeting #3:

Sample changing
Probe tuning
Lock
Shimming
Setting gains
Pulse calibration

Lab meeting #4:

T1 measurement

Lab meetings #5-#8:

Imaging

Spin echo
Gradient echo
Multi-slice
Multi-echo
3D
Image reconstruction
Diffusion
Chemical shift imaging

Also:

Data Archival
Trouble shooting
Editing files; scripts

Lab meeting #9:

Review, practice