

VETMM 707 / BioBM 730  
PROTEIN NMR SPECTROSCOPY  
Spring 2008

Linda Nicholson and Robert Oswald

Wednesdays 1:00 to 2:40 pm

READINGS AND PROBLEMS

**Text:** *NMR for Physical and Biological Scientists*  
Thomas C. Pochapsky and Susan Sondej Pochapsky  
Garland Science, ISBN # 0-8153-4103-2

Assigned Readings and Problems (*discussed on date given*)

<u>Date</u>	<u>Readings</u>	<u>Problems</u>
Jan 23	<i>Course Overview</i>	
Jan 30	Ch. 1, pp. 1-20: <i>What is Spectroscopy?</i>	1.1 – 1.6
Feb 6	Ch. 2, pp. 23-46: <i>Intro to spins, ensemble behavior and coupling</i>	2.1 – 2.9
Feb 13	Ch. 3, pp. 49-72: <i>Fourier transform NMR</i>	3.0 – 3.9
Feb 20	Ch. 3, pp. 73-89: <i>Nuclear spin relaxation and the nuclear Overhauser effect</i>	3.10 – 3.15
Feb 27	Ch. 4, pp. 95-120: <i>Nuclear spin relaxation and the nuclear Overhauser effect</i>	4.1 – 4.8
March 5	Ch. 5, pp. 123-144: <i>Classical and quantum descriptions of NMR experiments in liquids</i>	5.1 – 5.14
March 12	Ch. 6, pp. 147-163: <i>Density Operator and product operator descriptions of NMR experiments in liquids</i>	6.0 – 6.9
March 19	SPRING BREAK (no class)	
March 26		
April 2		
April 9		
April 16		
April 23		
April 30		