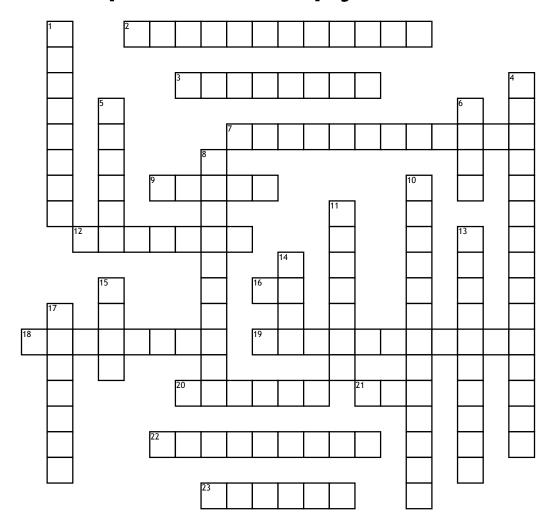
NMR Spectroscopy Crossword



<u>Across</u>

- 2. The shape of a signal is referred to as
- **3.** Which hydrogens have a low energy chemical shift value?
- **7.** ----- has 21 13C signals
- **9.** For two adjacent H's attached to a double bond what type of geometric isomerism will produce a J value of 12-18 Hz?
- **12.** Which type of unsaturated hydrocarbons undergo shielding due to the induced magnetic field (Bi) opposing the applied magnetic field (Bo)?
- **16.** What field does shielded hydrogens are occasionally seen
- **18.** he size of the ------ will depend on the amount of bonds separating the two hydrogens of interest

TMS

- **19.** This informs us the number of protons producing a signal
- **20.** A particle of light is called ------
- 21. ----- is the international standard for any NMR with a chemical shift value of 0 ppm
- **22.** Which type of decoupler eliminates all 1H signals in its spectra?
- **23.** NMR use lower——— for its electromagnetic radiation

Down

- 1. What description is given to a H(hydrogen) directly attached to a C=C bond?
- **4.** Light is a form of energy known as ----- radiation
- **5.** Determination of multiplicity in proton NMR can be based off ----- triangle.

- **6.** What field does de-shielded hydrogens appear. i.e., to the left of the TMS signal.
- **8.** NMR uses higher———— for it electromagnetic radiation
- 10. The term used for signal positions.
- **11.** Signal made up of 4 lines, in a ratio of 1:3:3:1is called ------
- 13. ------ hydrogens, are those that require Bo to be reduced due to the field induced by the electrons (Bi).
- **14.** Nuclei of many atoms have a quantity known as a ------
- **15.** a method of the determining the presence of primary, secondary or tertiary carbon atoms in a 13C spectrum
- 17. When the signal is made up of 2 lines in a ratio of 1:1 we have a ------

Word Bank

electromagnetic

PASCAL Alkynes Spin photon Integration **DEPT** Down Progesterone Energy De-shielded Broadband Olefinic Quartet Shielded **Trans** UP Multiplicity coupling Wavelength Chemical Shift

DOUBLET

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