Applications of NMR Spectroscopy in the Organic and Medicinal Chemistry


Organic Chemistry Laboratory, Department of Chemistry, University of Athens, Athens, Greece (t.mavrom@chem.uoa.gr)
National Hellenic Research Foundation, Institute of Organic and Pharmaceutical Chemistry, Vas. Constantinou 11635, Athens, Greece
Department of Chemistry, University of Patras, Patras 26500, Greece
School of Medicine University of Crete, School of Medicine, Hraklion Crete, Greece
Section of Inorganic and Analytical Chemistry, Department of Chemistry, University of Ioannina, 45110 Ioannina, Greece
Laboratory of Biomolecular Structure, National Institute of Chemistry, Hajdrihova 19, SI-1001 Ljubljana, Slovenia
EN-FIST Centre of Excellence, Dunajska 156, SI-1000 Ljubljana, Slovenia
Goethe University Frankfurt Institute of Biophysical Chemistry@Centre for Biomolecular Magnetic Resonance
Institute of Biocomplexity and Informatics, Department of Biological Sciences, University of Calgary, 2500 University Drive, Calgary, AB, Canada T2N 1N4

NMR spectroscopy is a powerful methodology that has been found numerous applications in the organic and medicinal chemistry. It has been applied in the two fields not only as an autonomous technique but also to provide complementary information when it is coupled with other methodologies.

Examples from our research activity using high resolution liquid and solid state NMR spectroscopy will be given which will cover aspects such as: (i) stability of the drugs; (ii) chemical reactions of biologically important molecules; (ii) drug:membrane interactions; (iii) rational design of novel leads; (iv) study of the molecular basis of a disease. The examples chosen serve to illustrate the practicability of the NMR technique to solve specific problems related to Organic and Pharmaceutical Chemistry aspects.

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References