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Title:	NMR Metabolomics of Lotus
Authors:	Gaurav, Guru (/jspui/browse?type=author&value=Gaurav%2C+Guru)
Keywords:	NMR metabolomics Metabolmic study of lotus Multivariate analysis
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Abstract:	The work in this thesis reports metabolic study of cyclic behaviour of Lotus (Nelumbo nucifera) plant related to sun movement using NMR spectroscopy . Sample of Lotus leaves were collected at 10 different time points . After Lyophilization process and adding many extraction solvent samples were placed in Bruker Biospin 600 MHz Spectrometer for 1D and 2D NMR Spectroscopy . Human Metabolome Database , SIMCA , Metrenova , topshim , Metabohunter , metaboanalysit software were used in spectrum analysis , PCA and OPLSDA analysis . Many amino acids , carbohydrates , organic acids , lipids , large alkaloids , phenolic base , metabolites were observed in plant leaves . Significant metabolites like Alpha glucose ,tryptophan ,leucine were observed and analyzed with the help T-test analysis .
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