Clinical Image

Homonuclear Correlation Experiments such as Homonuclear Single—Quantum Correlation Spectroscopy (HSQC), Homonuclear Multiple—Quantum Correlation Spectroscopy (HMQC) and Homonuclear Multiple—Bond Correlation Spectroscopy (HMBC) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation

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Received: March 28, 2018; Accepted: April 19, 2018; Published: April 26, 2018

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In the current study, we have experimentally and comparatively investigated and compared malignant human cancer cells and tissues before and after irradiating of synchrotron radiation using homonuclear correlation experiments such as Homonuclear Single–Quantum Correlation Spectroscopy (HSQC), Homonuclear Multiple–Quantum Correlation Spectroscopy (HMQC) and Homonuclear Multiple–Bond Correlation Spectroscopy (HMBC). It is clear that malignant human cancer cells and tissues have gradually transformed to benign human cancer cells and tissues under synchrotron radiation with the passing of time (Figures 1–3).

It can be concluded that malignant human cancer cells and tissues have gradually transformed to benign human cancer cells and tissues under synchrotron radiation with the passing of time (Figures 1–3).

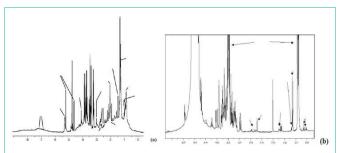


Figure 1: Homonuclear Single–Quantum Correlation Spectroscopy (HSQC) analysis of malignant cancer cells and tissues (a) before and (b) after irradiating of synchrotron radiation in transformation process to benign human cancer cells and tissues with the passing of time.

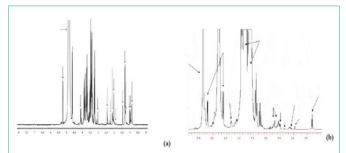


Figure 2: Homonuclear Multiple—Quantum Correlation Spectroscopy (HMQC) analysis of malignant cancer cells and tissues (a) before and (b) after irradiating of synchrotron radiation in transformation process to benign human cancer cells and tissues with the passing of time.

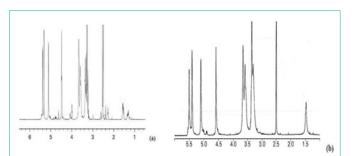


Figure 3: Homonuclear Multiple–Bond Correlation Spectroscopy (HMBC) analysis of malignant cancer cells and tissues (a) before and (b) after irradiating of synchrotron radiation in transformation process to benign human cancer cells and tissues with the passing of time.