

Acoustic Spectroscopy, Acoustic Resonance Spectroscopy and Auger Spectroscopy Comparative Study on Anti-Cancer Nano Drugs Delivery in Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation

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Abstract

In the current study, we have experimentally and comparatively investigated and compared anti-cancer Nano drugs delivery in malignant human cancer cells and tissues before and after irradiating of synchrotron radiation using Acoustic Spectroscopy, Acoustic Resonance Spectroscopy and Auger Spectroscopy.

Introduction

In the current study, we have experimentally and comparatively investigated and compared anti-cancer Nano drugs delivery in malignant human cancer cells and tissues before and after irradiating of synchrotron radiation using Acoustic Spectroscopy, Acoustic Resonance Spectroscopy and Auger Spectroscopy. 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 passage of time (Figures 1-3) [1-150].

Results and Discussion

It should be noted that malignant human cancer cells and tissues were exposed under white synchrotron radiation for 30 days. Furthermore, there is a shift of the spectrum in all of spectra after irradiating of synchrotron radiation that it is because of the malignant human cancer cells and tissues shrink post white synchrotron irradiation with the passage of time. In addition, all of the figures are related to the same human cancer cells and tissues. Moreover, in all of the figures y-axis shows intensity and also x-axis shows energy (keV).

Conclusion

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 passage of time (Figures 1-3).

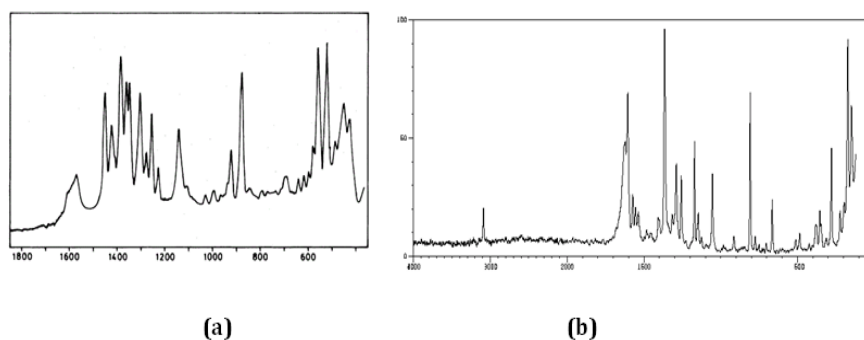


Figure 1: Acoustic Spectroscopy analysis of malignant human cancer cells and tissues (a) before and (b) after irradiating of synchrotron radiation in transformation process to benign human cancer cells and tissues with the passage of time [1-150].

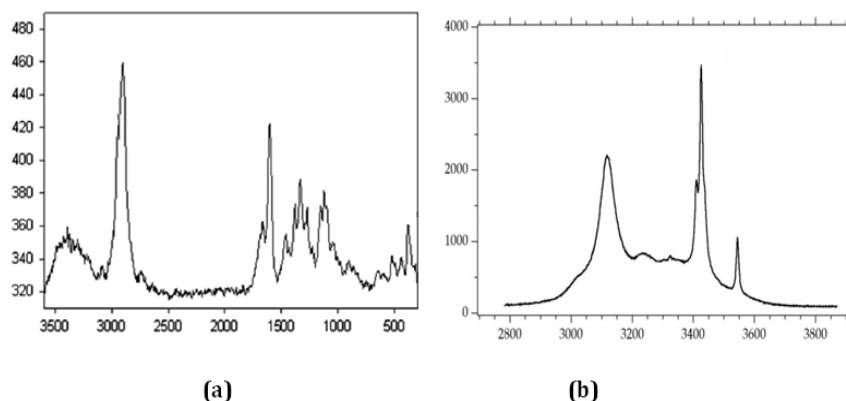


Figure 2: Acoustic Resonance Spectroscopy analysis of malignant human cancer cells and tissues (a) before and (b) after irradiating of synchrotron radiation in transformation process to benign human cancer cells and tissues with the passage of time [1–150].

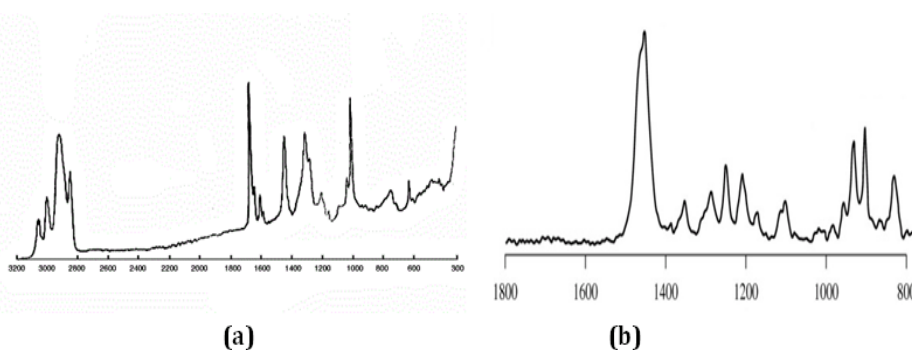


Figure 3: Auger Spectroscopy analysis of malignant human cancer cells and tissues (a) before and (b) after irradiating of synchrotron radiation in transformation process to benign human cancer cells and tissues with the passage of time [1–150].

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