

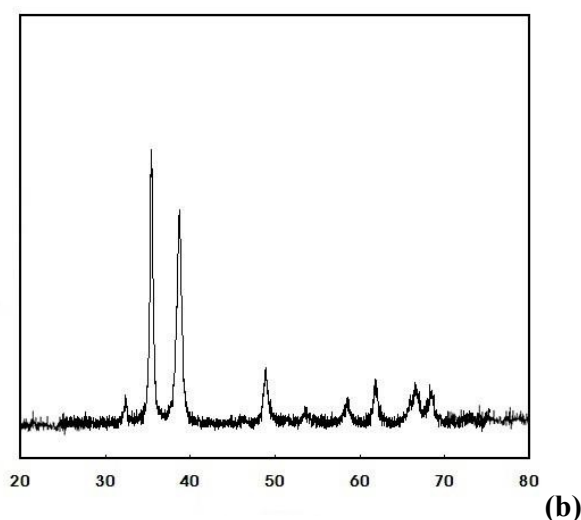
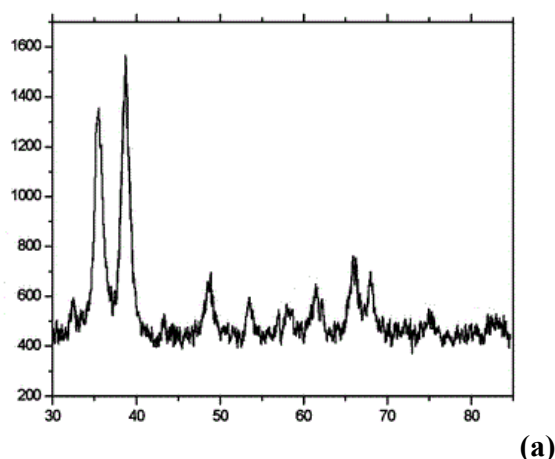
# A modern and comprehensive investigation of inelastic electron tunneling spectroscopy (IETS) and scanning tunneling spectroscopy on malignant and benign human cancer cells, tissues and tumors through optimizing synchrotron microbeam radiotherapy for human cancer treatments and diagnostics: An experimental biospectroscopic comparative study

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In the current work, we have experimentally and comparatively studied and compared malignant human cancer cells, tissues and tumors before and after irradiating of synchrotron radiation through optimizing synchrotron microbeam radiotherapy for human cancer treatments and diagnostics using Inelastic Electron Tunneling Spectroscopy (IETS) and Scanning Tunneling Spectroscopy. It is evident that malignant human cancer cells, tissues and tumors have frequently transformed to benign human cancer cells, tissues and tumors under synchrotron radiation with the passage of time through optimizing synchrotron microbeam radiotherapy for human cancer treatments and diagnostics (Figures 1 and 2) [1-198].

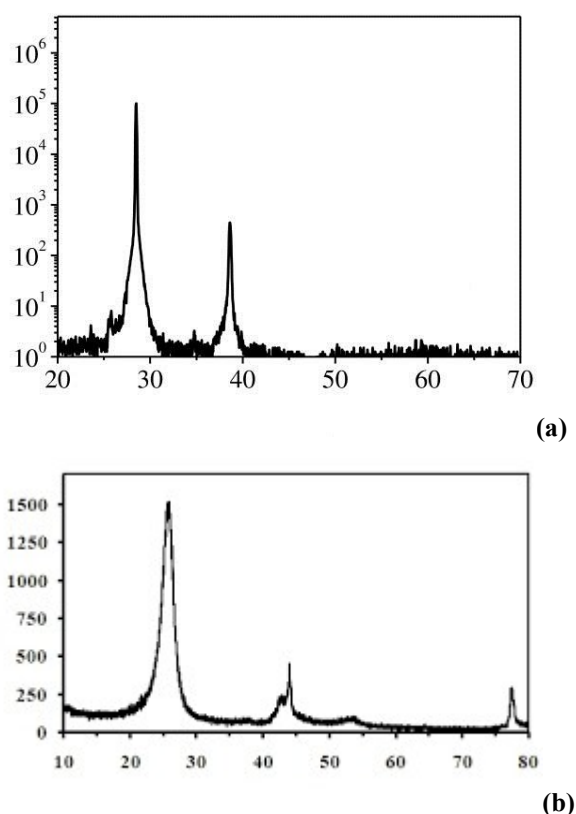
It can be concluded that malignant human cancer cells, tissues and tumors have frequently transformed to benign human cancer cells, tissues and tumors under synchrotron radiation with the passage of time through optimizing synchrotron microbeam radiotherapy for human cancer treatments and diagnostics (Figures 1 and 2) [1-198].



**Figure 1.** Inelastic Electron Tunneling Spectroscopy (IETS) analysis of malignant human cancer cells, tissues and tumors through optimizing synchrotron microbeam radiotherapy for human cancer treatments and diagnostics (a) before and (b) after irradiating of synchrotron radiation in transformation process to benign human cancer cells, tissues and tumors with the passage of time [1-198]

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**Figure 2.** Scanning Tunneling Spectroscopy analysis of malignant human cancer cells, tissues and tumors through optimizing synchrotron microbeam radiotherapy for human cancer treatments and diagnostics (a) before and (b) after irradiating of synchrotron radiation in transformation process to benign human cancer cells, tissues and tumors with the passage of time [1-198]

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