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A comparison of the effects of RF and pulsed DC nonthermal plasma jets on melanoma cell viability

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Nonthermal plasma has been used as a successful treatment method for melanoma cancer cells. There are a number of power sources used to generate the high voltage signal required to create nonthermal plasma. The RF plasma jet uses a resonance transformer to generate a low frequency sinusoidal voltage. The pulsed DC plasma jet uses a high voltage pulse circuit to generate a low frequency square pulse. A comparison of the effects of melanoma cell viability using a low frequency RF power source and a pulsed DC power source for plasma generation are presented.

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