

**Table 7.** Carcinogenesis and cancer promotion by continuous wave, modulated, and pulsed microwave exposure\*.

Biologic Material	Promoter/ Co-carcino.	Modulation.(Hz)/ Ave SAR (W/kg)	Effect	Author Year
Mouse fibroblast	Benzopyrene	CW / 4.4	No	Balcer-Kubiczek & Harrison [1985] [1989] [1991]
	None		No	
	X-ray/TPA		Yes	
	TPA/X-ray	CW / 4.4	Yes	
	TPA	120 Hz/ 0.1	Yes	
Human glioma cell	None	CW / 5.0	Yes	Cleary et al [1990]
Rat brain cell	None	CW / 1-2 500 /1-2	Yes	Lai & Singh [1995, 1996]
Mouse breast cancer	None	CW / 2-6 or 5 -15 mW/cm <sup>2</sup>	Yes	Szmigielski et al [1982]
or Skin cancer	Benzopyrene	CW / 2-3 or 6-8	Yes	Szudzinski et al [1982]
Rat primary malignancy	None	8 Hz/800 pps / 0.15-0.4	Yes	Chou et al. [1992]
Rat brain tumor 915 MHz	None	CW/ 1.67	No	Salford et al. [1993]
	None	4, 8, 16, 50, 200 Hz / 0.77-1.0	No	
Mouse colon cancer	DMH	CW /	No	Wu et al. [1994]
	TPA	10 -12	Yes	

\*2450 MHz except where noted; CW - Continuous wave; TPA - Tetradecanoylphorbol-13-acetate; DMH - Dimethylhydrazine; None- No co-carcinogen or promoter.