***In vitro* and *In vivo* Effects of Crocetin against Several Cancers**

Types of Cancers	Cell lines/Animal models	Factors Affected	References
Breast Cancer	MCF-7, MDA-MB-231	↓Proliferation	Chryssanthi *et al.*
	MCF-7, MDA-MB-231	↑Apoptosis	Mousavi *et al.* 2009
Cervical Cancer	HeLa Cells	↓DNA, RNA and protein synthesis	Abdullaev & Frenkel
	HeLa Cells	↑Apoptosis	Tavakkol-Afshari *et al.*
	HeLa Cells	↓RNA polymerase activity	Abdullaev
	HeLa Cells	↑tRNA interaction	Kanakis *et al.*
	HeLa Cells	↓RNA, DNA and protein synthesis	Escribano *et al.*
Colorectal Cancer	HCT-116, SW-480, and HT-29	↓Proliferation	Aung *et al.*
Leukemia	HL60	↓Cytotoxity and proliferation	Tarantilis *et al.*
	L1210 and P388	↓ Cytotoxity and proliferation	Morjani *et al.*
	K562	↓ Cytotoxity and proliferation	Tarantilis *et al.*; Morjani *et al.*
Liver Cancer	Wistar rat (AFB1) C3H1OT1/2 cells	↓Lipid perxidation	Wang *et al.*
	Wistar rat (AFB1) C3H1OT1/2 cells	↓Reactive oxygen species	Wang *et al.*
	Wistar rat (AFB1) C3H1OT1/2 cells	↓ DNA-adduct formation	Chang *et al.*
	HepG2	↓Proliferation, ↑apoptosis	Tavakkol-Afshari *et al.*
Lung Cancer	Swiss albino mice (B[*a*]P	↓ Lipid peroxidation,↑GST, ↑catalases, ↑superoxide dismutase	Magesh *et al.*
	Swiss albino mice (B[*a*]P)	↓ polyamine	Magesh *et al.*
	A549 lung carcinoma	↓DNA, RNA and protein, ↓RNA polymerase II	Abdullev 1994
	VA-13 fetal lung fibroblast	↓DNA, RNA and protein, ↓RNA Polymerase II	Abdullev 1994
Pancreatic Cancer	Mia PaCa2, BxPc3, Capan-1 and ASPC-1 cells; Athymic xenograft mice (Mia PaCa-2)	↓Proliferation, ↓ EGFR phsophoryaltion, ↑Cdc2 phosphorylation,↓Cdc25c,↓cyclin B1,↑apoptosis, ↑Bax, ↓Bcl-2, ↓Tumor formation	Dhar *et al.*
Skin Cancer	Swiss Webster mice (DMBA and croton oil)	↓Tumor formation	Gainer *et al.* Mathews-Roth