

Flavonoids	Class	Dietary source	References on melanoma	Role in pigmentation	Role in melanoma	Regulation of AhR activity
Apigenin	Flavones	parsley, celery, celeriac, and chamomile	48	Up (27)	Inhibition of proliferation and invasion and induction of apoptosis (1), suppression of PDL1 expression (2), inhibition of STAT3 (3)	Antagonist (4,5)
(-)-Epigallocatechin Gallate	Flavan-3-ol	tea	66	Dn (28)	Inhibition of proliferation and invasion by targeting YB1 (6), increase Sorafenib effect (7)	
Chrysin	5,7-dihydroxyflavone	honey, propolis, the passion flowers, Passiflora	15	Up (27) or Dn (29)	Synergical effect with IFN α on metastatic pulmonary melanoma (8)	Agonist (9)
Curcumin	Curcuminoid	ginger	158	Dn (30)	Inhibition of proliferation Wnt/beta Catenin pathway (10)	Antagonist (11)
Diosmin	Flavone	citrus family rutaceae	3			No effect on TCDD induction (4)
Fisetin	Flavonol	strawberries, apples, persimmons, onions and cucumbers	20	Up (27)	Inhibition of migration and invasion by inhibiting HGF/cMET (12)	Antagonist (13)
Genistein	Isoflavone	dyer's broom	80	Up (31)		Antagonist for TCDD induction (14)
Kaempferol	Flavonol	broccoli, brussels sprouts...	32	Up (27)	Inhibition of proliferation and invasion (15) an tumor growth (16)	Agonist (9)
Myricetin	Flavonol	fruits, nuts, berries, tea and in red wine	7	Dn (32)	Inhibition of proliferation and invasion by targeting FAK/paxillin and MAPK pathways (17)	Antagonist (4)
Naringenin	Flavanone	grapefruit, orange	19	Up (33)	Inhibition of proliferation by targeting TRAF6 (18), induction of autophagy (19)	Inhibitor of AhR via HSP90 (20)
Naringin	Flavanone	citrus fruit	6	Dn (34)		
Nobiletin	Flavone	citrus and tangerine peel	5	Dn (35)	Inhibition of proliferation (21) by targeting MEK1/2 and RSK2 (22)	
Puerarin	Isoflavone	pueraria, kudzu	0	Up (36)		
Quercetin	Flavonol	red onions and kale	120	Dn (37)	Inhibitor of glucose metabolism of melanoma cells by targeting c-SRC (23)	
Resveratrol	Stilbenoid	grapes, blueberries, raspberries, mulberries, and peanuts	111	Dn (38)	Inhibition of proliferation by inducing apoptosis (25), increase of BRAF sensitivity (26)	Antagonist (26)
Rutin	Flavonol	citrus fruit	26	Dn (34)		Antagonist (24)
Silibinin	Flavonolignans	Silybum marianum	14			
Tangeretin	Flavone	citrus and tangerine peel	5	Dn (39)		

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