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	file_path	sentence	section	entities	labels	position_start	position_end	abbreviations	abbreviations_longform	abbreviation_start	abbreviation_end
22	/Users/emanuelfarruda/venv/phytomed100/PMC7721505/sections/0_front/1_article-meta/16_abstract.xml	Interestingly, opuntiol pretreatment inhibited UVA-induced activation of iNOS, VEGF, TNF- α , and COX-2 proteins and consequent activation of MMP-2, MMP-9, and MMP-12 in the mouse skin.	ABS	TNF-	CHEMICAL	85	89				
3455	/Users/emanuelfarruda/venv/phytomed100/PMC7721505/sections/1_body/3_4._discussion/3_p.xml	Further, UVA radiation-mediated MAPK signaling activates NF- κ B and AP-1 to liberate inflammatory cytokines and mediators such as COX-2, TNF- α , VEGF, iNOS, and IL-6 36 .	DIS	UVA, TNF-	CHEMICAL, CHEMICAL	9, 138	12, 142				
3460	/Users/emanuelfarruda/venv/phytomed100/PMC7721505/sections/1_body/3_4._discussion/3_p.xml	In this present work, opuntiol inhibited inflammatory responses by downregulating the expression of COX-2, TNF- α , VEGF, iNOS, and IL-6 in UVA-exposed mouse skin.	DIS	TNF-	CHEMICAL	107	111				
3461	/Users/emanuelfarruda/venv/phytomed100/PMC7721505/sections/1_body/3_4._discussion/3_p.xml	We previously reported that α -pinene, a naturally occurring phytochemical, suppresses UVA-induced inflammatory mediators such as COX-2, TNF- α , VEGF, iNOS, and IL-6 in the mouse skin 25 .	DIS	-pinene, TNF-	CHEMICAL, CHEMICAL	31, 138	38, 142				
3475	/Users/emanuelfarruda/venv/phytomed100/PMC7721505/sections/1_body/3_4._discussion/4_p.xml	The photoaging process has specifically been triggered by several proinflammatory mediators such as prostaglandin E2 (PGE2), COX-2, iNOS, TNF- α , IL-1 β , and IL-6 receptors 39 .	DIS	prostaglandin E2, TNF-	CHEMICAL, CHEMICAL	100, 138	116, 142	PGE2	prostaglandin E2	16	17
6646	/Users/emanuelfarruda/venv/phytomed100/PMC7721505/sections/3_floats-group/5_fig.xml	(a) The expression pattern of IL-6, TNF- α , COX-2, iNOS, and VEGF was analyzed by immunohistochemistry.	FIG	TNF-	CHEMICAL	36	40				
6651	/Users/emanuelfarruda/venv/phytomed100/PMC7721505/sections/3_floats-group/5_fig.xml	Representative photomicrographs (20x) illustrate IL-6, TNF- α , COX-2, iNOS, and VEGF expression in the mouse skin.	FIG	TNF-	CHEMICAL	55	59				
6652	/Users/emanuelfarruda/venv/phytomed100/PMC7721505/sections/3_floats-group/5_fig.xml	(b) Densitometry analysis of IL-6, TNF- α , COX-2, iNOS, and VEGF expression in UVA and/or opuntiol-treated mouse skin.	FIG	TNF-, UVA	CHEMICAL, CHEMICAL	35, 80	39, 83				
7634	/Users/emanuelfarruda/venv/phytomed100/PMC7721505/sections/1_body/0_1._introduction/3_p.xml	Moreover, tumor necrosis factor- α (TNF- α) and interleukins are critically involved in NF- κ B-dependent inflammatory reaction during UVA radiation-associated photoaging 17 .	INT	tumor necrosis, TNF-, UVA radiation-associated	DISEASE, CHEMICAL, CHEMICAL	10, 37, 137	24, 41, 161				
1187	/Users/emanuelfarruda/venv/phytomed100/PMC7721505/sections/1_body/2_3._results/6_3.6._opuntiol_pre	Opuntiol on UVA-exposed expression of inflammatory proteins such as IL-6, TNF- α , COX-2, iNOS, and VEGF was assessed by immunohistochemistry analysis.	RES	TNF-	CHEMICAL	74	78				
1188	/Users/emanuelfarruda/venv/phytomed100/PMC7721505/sections/1_body/2_3._results/6_3.6._opuntiol_pre	UVA (100J/cm 2)-irradiated mouse skin sections clearly show increased expression of IL-6, TNF- α , COX-2, iNOS, and VEGF evidenced by higher brown color staining in the skin sections.	RES	UVA, TNF-	CHEMICAL, CHEMICAL	0, 92	3, 96				
1189	/Users/emanuelfarruda/venv/phytomed100/PMC7721505/sections/1_body/2_3._results/6_3.6._opuntiol_pre	topical treatment prevented the UVA-mediated expression of IL-6, TNF- α , COX-2, iNOS, and VEGF proteins in the mouse skin (Figure 6).	RES	TNF-	CHEMICAL	65	69				
1525	/Users/emanuelfarruda/venv/phytomed100/PMC9218575/sections/2_body/2_preclinical_studies/2_table-wr	Compound Model Dose Mechanism of action References Curcumin 3T3-L1 preadipocytes High dose: >30 μM High dose curcumin generates preadipocyte apoptosis in a time- and dose-dependent manner and c	TAB	Curcumin, curcumin, curcumin, Curcumin, curcumin, curcumin, cardiac injury, inflammation, cur	CHEMICAL, CHEMICAL, CHEMICAL, CHEMICAL, CHEMICAL, CHEMICA	71, 129, 289, 559, 617, 661, 695, 7	79, 137, 297, 567, 625, 669, 709, 7	C/EBP, UCP, eIF2	CCAAT/enhancer-binding protein, Uncoupling Protein, eukaryotic translation initiation facto	77, 140, 207	78, 141, 208