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file_path	sentence	section	entities	labels	position_start	position_end	abbreviations	abbreviations_longform	abbreviation_start	abbreviation_end		
22 /Users/emanueffarruda/venv/phytomed/100/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					
3456 /Users/emanueffarruda/venv/phytomed/100/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 .	DIS	UVA, TNF-	CHEMICAL, CHEMICAL	9, 138	12, 142						
3460 /Users/emanueffarruda/venv/phytomed/100/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/emanueffarruda/venv/phytomed/100/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 .	DIS	-pinene, TNF-	CHEMICAL, CHEMICAL	31, 138	38, 142						
3471 /Users/emanueffarruda/venv/phytomed/100/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 .	DIS	prostaglandin E2, TNF-	CHEMICAL, CHEMICAL	100, 138	116, 142	PGE2	prostaglandin E2	16	17		
6646 /Users/emanueffarruda/venv/phytomed/100/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/emanueffarruda/venv/phytomed/100/PMC7721505/sections/3_floats-group/5_fig.xml	Representative photomicrographs (20 \times) illustrate IL-6, TNF- α , COX-2, iNOS, and VEGF expression in the mouse skin.	FIG	TNF-	CHEMICAL		55	59					
6652 /Users/emanueffarruda/venv/phytomed/100/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						
7352 /Users/emanueffarruda/venv/phytomed/100/PMC7646887/sections/3_floats-group/3_fig.xml	(A) mRNA expression levels of IL-1 β , IL-4, IL-6, TNF- α and MCP-1 were measured via reverse transcription-quantitative PCR.	FIG	TNF- α	DISEASE		49	54					
7353 /Users/emanueffarruda/venv/phytomed/100/PMC7646887/sections/3_floats-group/3_fig.xml	(B) Protein expression levels of IL-1 β , IL-4, IL-6, TNF- α and MCP-1 were measured using ELISAs in skin tissue homogenate supernatants.	FIG	TNF- α	DISEASE		52	57					
7634 /Users/emanueffarruda/venv/phytomed/100/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 .	INT	tumor necrosis, TNF-, UVA radiation-associated	DISEASE, CHEMICAL, CHEMICAL	10, 37, 137	24, 41, 161						
1187 /Users/emanueffarruda/venv/phytomed/100/PMC7721505/sections/1_body/2_3_results/6_3.6_opuntiol.ppt	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/emanueffarruda/venv/phytomed/100/PMC7721505/sections/1_body/2_3_results/6_3.6_opuntiol.ppt	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						
1188 /Users/emanueffarruda/venv/phytomed/100/PMC7721505/sections/1_body/2_3_results/6_3.6_opuntiol.ppt	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					
1206 /Users/emanueffarruda/venv/phytomed/100/PMC7703918/sections/1_body/2_3_results/3_3.3_effect_of_m	TNF- α levels in G2-G5 were: 83.55 \pm 4.313, 76.95 \pm 13.22, 60.50 \pm 4.384, and 99.25 \pm 0.91 pg/mL.	RES	TNF- α	DISEASE		0	5					
1371 /Users/emanueffarruda/venv/phytomed/100/PMC9230602/sections/4_floats-group/17_table-wrap/3_table-wrap/17_16_Dictamnini Radicis Cortex -DNFB-induced CD mice Fraxinellone -Reducing the levels of TNF- α , IFN- γ , and IL-6 in inflamed tissues -Inhibiting enlargement of dorsal skin and prevented epidermal hyperplasia, TAB	Fraxinellone, hyperkeratosis, spongiotic, petechiae, erythema, nitric oxide, interleukin-6, tumor	TAB	Fraxinellone, hyperkeratosis, spongiotic, petechiae, erythema, nitric oxide, interleukin-6, tumor	CHEMICAL, DISEASE, DISEASE, DISEASE, DISEASE, CHEMICAL, CHEMICAL	66, 222, 242, 348, 371, 742, 765, 7	78, 236, 252, 357, 379, 754, 778, 7	kB	inhibitor of κ B	158	159		
1416 /Users/emanueffarruda/venv/phytomed/100/PMC9369191/sections/2_body/1_2_results_and_discussion/8	LC-MS Metabolomics of Psoriasis Patients Reveals Disease Severity Dependent Increases in Circulating Amino Acids That Are Ameliorated by Anti-TNF α Treatment.	TAB	Psoriasis, Anti-TNF α	DISEASE, DISEASE	22, 137	31, 146						
1527 /Users/emanueffarruda/venv/phytomed/100/PMC8218575/sections/2_body/3_meta-analysis_of_curcumin_i	(27) MS and its components, NAFLD, and coronary vascular artery Systematic review and meta-analysis, 15 RCTs were included IL-6 \downarrow * hscrp \downarrow * MDA \downarrow * TNF-alpha SOD Fasting plasma glucose \downarrow Significant Significant \downarrow	TAB	NAFLD, MDA, TNF-alpha, glucose	DISEASE, CHEMICAL, CHEMICAL, CHEMICAL	30, 144, 152, 181	35, 147, 161, 188						
1528 /Users/emanueffarruda/venv/phytomed/100/PMC8218575/sections/2_body/3_meta-analysis_of_curcumin_i	TNF- α * Significant 1.2 >50%, P < 0.05 * Bio-enhanced curcuminoids led to the greatest reduction of TNF- α compared to bio-enhanced curcumin Gorabi et al.	TAB	TNF- α , curcumin	DISEASE, CHEMICAL	103, 134	108, 142						
1528 /Users/emanueffarruda/venv/phytomed/100/PMC8218575/sections/2_body/2_preclinical_studies/2_table-wrap/	Compound Model Dose Mechanism of action References Curcumin 3T3-L1 preadipocytes High dose: >30 μ M 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, CHEMICAL	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		
1528 /Users/emanueffarruda/venv/phytomed/100/PMC8218575/sections/2_body/2_preclinical_studies/2_table-wrap/	(60) Curcumin Skeletal muscle C2C12 cells 5, 20, and 40 μ M Curcumin exhibits anti-inflammatory activity in C2C12 cells via suppressing the JNK and NF- κ B pathways and reducing oxidative stress (61) Curcumin PCOS	TAB	Curcumin, Curcumin, Curcumin PCOS, Curcumin, Curcumin, Curcumin, weight loss, malondial	CHEMICAL, CHEMICAL, CHEMICAL, CHEMICAL, CHEMICAL, CHEMICAL	7, 61, 203, 256, 333, 414, 559, 686	15, 69, 216, 264, 341, 422, 570, 704, 779, 805, 844, 886, 942, 964, 986, 1052, 1077, 1185, 1233						
1532 /Users/emanueffarruda/venv/phytomed/100/PMC8516400/sections/2_body/2_results/43_table-wrap/2_table-wrap/	2002 \blacktriangleright) Anti-apoptotic effect Rat 20, 50 or 100 mg/kg; per oral Naringin protected kidney function, reversed the decrease in the activity of antioxidant enzymes, and suppress increases in nitrite, TNF- α and TBARS levels.	TAB	Naringin, nitrite, TNF- α	CHEMICAL, CHEMICAL, DISEASE	66, 190, 199	74, 197, 204						
1636 /Users/emanueffarruda/venv/phytomed/100/PMC902489/sections/4_floats-group/10_table-wrap/3_table-wrap/	and PLSN induced pain in mice \downarrow mechanical and thermal hyperalgesia \downarrow gliosis, \uparrow IL-10, \downarrow TNF- α 79 α -Bisabolol 25 or 50 mg/kg, p.o 1 h before the local injection of inducing agents Formalin (20 μ L of 2% s.c.), capsaicin	TAB	pain, hyperalgesia, p.o, capsaicin, glutamate, pleurisy, orofacial pain, TNF- α	DISEASE, DISEASE, CHEMICAL, CHEMICAL, CHEMICAL, DISEASE, DIS	17, 55, 132, 215, 252, 370, 389, 40	21, 67, 135, 224, 261, 378, 403, 411						