



Publications Template

#	Research Title	Field		Abstract		Year of Publication Publishing	Publishing Link "URL"
1	Thymoquinone improves the kidney and liver changes induced by chronic cyclosporine A treatment and acute renal ischaemia/reperfusion in rats	Pharmacology & Experimental Therapeutics	Objectives This study was designe cyclosporine A (CsA) t ischaemia/reperfusion (thymoquinone (TQ)-tree Methods In the CsA study, adult control, CsA (25 mg/kg and CsA + TQ groups, a In the I/R study, adult r operated, I/R (renal iscl 60 min reperfusion) and 1 h before ischaemia) g Key findings CsA treatment and rena dysfunction as evaluate biochemical parameters serum indices back to c induced kidney and liver renal and hepatic tissue significant decreases in superoxide dismutase a stress markers were cou	d to evaluate the effects reatment and acute renal I/R) on the kidney and li- ated rats. male rats were divided if per day), TQ (10 mg/kg and rat treatment was for nale rats were divided in naemia for 60 min follow 1 TQ + I/R (TQ 10 mg/kg roups. I I/R caused kidney and d by histopathological class. TQ treatment reduced ontrol levels and amelio er histopathological chans s, CsA and renal I/R ind malondialdehyde levels reduced glutathione levels interacted by TQ treatment	of chronic iver in into g per day) r 28 days. to sham- ved by g, 24 h and liver hanges and elevated rated CsA- nges. In uced with els and n oxidative ent.	2015	https://doi.org/10.1111/jphp. 12363
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			Conclusions Kidney and liver injury due to CsA or renal I/R can be				
			significantly reduced by TQ, which resets the oxidant/antioxidant balance of the affected organs through scavenging free radicals and antilipoperoxidative effects.				
2	Design of Targeted Flurbiprofen Biomimetic Nanoparticles for Management of Arthritis: In Vitro and In Vivo Appraisal	Pharmaceutics, Nonoformulation Pharmacology & Experimental Therapeutics	Flurbiprofen (FLUR) is a potent non-steroidal anti- inflammatory drug used for the management of arthritis. Unfortunately, its therapeutic effect is limited by its rapid clearance from the joints following intra-articular injection. To improve its therapeutic efficacy, hyaluronic acid-coated bovine serum albumin nanoparticles (HA-BSA NPs) were formulated and loaded with FLUR to achieve active drug targeting. NPs were prepared by a modified nano-emulsification technique and their HA coating was proven via turbidimetric assay. Physicochemical characterization of the selected HA-BSA NPs revealed entrapment efficiency of 90.12 ± 1.06%, particle size of 257.12 ± 2.54 nm, PDI of 0.25 ± 0.01, and zeta potential of -48 ± 3 mv. The selected formulation showed in-vitro extended-release profile up to 6 days. In-vivo studies on adjuvant-induced arthritis rat model exhibited a significant reduction in joint swelling after intra-articular administration of FLUR-loaded HA-BSA NPs. Additionally, there was a significant reduction in CRP level in blood as well as TNF-α, and IL-6 levels in serum and joint tissues. Immunohistochemical study indicated a significant decrease in iNOS level in joint tissues. Histopathological analysis confirmed the safety of FLUR- loaded HA-BSA NPs. Thus, our results reveal that FLUR	2022	https://doi.org/10.3390/pharmace utics14010140		
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	loaded HA-BSA NPs have a promising therapeutic effect							
			in the management of arthritis.					
3	The gastroprotective effect of Yucca filamentosa standardized crude leaves extract versus its nano-cubosomal formulation in ethanol-induced gastric injury	Pharmacology & Experimental Therapeutics Natural Compound characterization Phytochemistry	Yucca filamentosa (YF) is widely used in folk medicine for its anti-inflammatory effects. Our study aimed to evaluate the chemical profile of YF extracts. Additional the gastroprotective efficacy of its crude leaf extract and nano-cubosomal formulation was assessed in a rat mode of ethanol-induced gastric injury by altering the HMGB 1/RAGE/TLR4/NF- κ B pathway. The phytochemical composition of YF was investigated using FTIR spectroscopy and LC-MS/MS techniques. Standardization was further accomplished using HPLC. Rats were treated orally with yucca crude extract or its nano-cubosomal formulation at doses of 25, 50, and 100 mg/kg. Famotidine (50 mg/kg, IP) was used as a referen drug. After 1 h, rats were administered ethanol (1 ml, 95 %, orally). One hour later, the rats were sacrificed, and serum was separated to determine TNF- α and IL-6 level Stomachs were excised for the calculation of the ulcer index and histopathological examinations. Stomach tiss homogenate was used to determine MDA and catalase levels. Additionally, the expression levels of HMGB1/RAGE/TLR4/NF- κ B were assessed. Phytochemical analysis confirmed the predominance of steroidal saponins, sucrose, organic and phenolic acids, and kaempferol. The nano-cubosomal formulation demonstrated enhanced gastroprotective, anti-oxidant, a anti-inflammatory efficacy compared to the crude extract at all tested doses. The most prominent effect was	e ly, 1 el - 1 0 nce 5 2024 ls. ue und ct	https://doi.org/10.1016/j.inti mp.2024.112440			



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Targeted non-in Metformin-Cur co-loaded nanohyaluoso halt osteoarth progression improve artic cartilage structu preclinical st	vasive cumin Pharm Expe mes Ther ritis und Pharm ular Nonofe rite: A udy	acology & erimental rapeutics naceutics, ormulation	observed in rats pretreat formulation at a dose of normal control and fam Our results highlighted impact of the yucca nar dose-dependent manner preventing peptic ulcer Osteoarthritis (OA) is a quality of life in elderly Current therapies usin anti-inflammatory drug limited ability to retat achieve long term eff potential of MT-Cur of OA management was loaded nanohyaluosome topical administration of optimized MT-Cur-HL nm, zeta potential □ efficiency (%EE) 70.22 and Cur, respectively. drug release over 24 h °C in terms of P.S., Z study, using MIA-induc the most significant a progression of MT-Cur through the potentiat ultimately led to suppre xB signaling pathway w and ADAMTS5 induce	ted with the YF nano-cu f 100 mg/kg, which was notidine-treated rats. the enhanced gastroprot no-cubosomal formulation r. This suggests its poten recurrence. degenerative disease that y and young populations. g corticosteroids and no gs via parenteral or oral for rd progression of the of rectiveness and safety. combinatorial nano-form explored for the first times (MT-Cur-HL1) were of of the combined therapy 1 showed particle size for 37.3 \pm 0.4 mV; and 2 $\% \pm 0.303$ and 76.7 $\% \pm 0.1$ MT-Cur-HL1 exhibite and were stable over 3 for the construction of p-AMPK signers ession of its downstream with subsequent reduction ed chondrocytes degene	bosomal similar to rective on in a atial use in at affects the on-steroidal routes show disease and Herein, the nulations in me. MTCur designed for in OA. The 247.7 \pm 3.7 entrapment .077 for MT d sustained months at 4 l preclinical lel, revealed halted OA to be mainly naling that TLR4/ NF- n in MMP13 ration. This	2024	https://doi.org/10.1016/j.ijphar m.2024.124845
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		study proved that this significant improvement and reinforcement of antinociceptive effect. coloaded nanohyaluoso approach for the local r	s trajectory effectively nt in the articular cartila joint mobility with a In conclusion, the nov omes offer a promising n management of OA.	promotes a ge structure an efficient vel MT-Cur ion-invasive	
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