

Title:

In vitro-in vivo assessments of apocynin-hybrid nanoparticles-based gel as an effective nanophytomedicine for treatment of rheumatoid arthritis

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Table S1 Statistical relevance of all IAPs effects either linear, interaction or non-linear on the DRPs

			D_h (nm)	PI	ζP (mV)	EE %
IAPs linear effects	CPT amount (X _A)	<i>P</i> -value	< 0.0001*	< 0.0001*	< 0.0001*	0.0004*
		Estimate coefficient	+184.77	+0.0865	-3.62	+1.82
	PF-68 concentration (X _B)	<i>P</i> -value	< 0.0001*	< 0.0001*	0.0190*	< 0.0001*
		Estimate coefficient	+96.78	-0.0482	+1.17	+2.74
IAPs interaction effect	CPT amount vs. PF-68 concentration (X _{AB})	<i>P</i> -value	< 0.0001*	< 0.0001*	0.0041*	0.1406
		Estimate coefficient	-64.33	-0.0353	-1.06	+0.4525
IAPs non-linear effects	CPT amount (X _A ²)	<i>P</i> -value	< 0.0001*	0.9273	0.0020*	0.0137*
		Estimate coefficient	-135.27	+0.0015	+2.85	-1.98
	PF-68 concentration (X _B ²)	<i>P</i> -value	< 0.0001*	0.3327	0.0003*	< 0.0001*
		Estimate coefficient	-102.42	+0.0162	+3.60	+9.53
	CPT amount vs. PF-68 concentration (X _A ² X _B)	<i>P</i> -value	< 0.0001*	< 0.0001*	0.0002*	< 0.0001*
		Estimate coefficient	-160.67	+0.1134	-2.64	-7.43
	CPT amount vs. PF-68 concentration (X _A X _B ²)	<i>P</i> -value	< 0.0001*	< 0.0001*	0.0017*	0.0057*
		Estimate coefficient	-141.09	-0.0922	+2.06	+1.61
	CPT amount vs. PF-68 concentration (X _A ² X _B ²)	<i>P</i> -value	< 0.0001*	0.0009*	0.0197*	0.1436
		Estimate coefficient	+194.39	+0.0807	-2.46	+1.35

*Significant at $p < 0.05$