

Supplementary Table 1. Comprehensive summary of statistical analyses.

Experiment	Groups	Statistical test	Biological replicate	Technical replicate	Post-hoc	P-value	Effect size (η^2)	Effect size (ω^2)
Scratch test	Control, VEM, CAP, CAP plus VEM		3	3				
Clonogenic assay in One week	Control, VEM, CAP, CAP plus VEM	One-way ANOVA	3	3	Tukey HSD <i>post-hoc</i> test	<0.05	0.994	0.989
Clonogenic assay in two week	Control, VEM, CAP, CAP plus VEM	One-way ANOVA	3	3	Tukey HSD <i>post-hoc</i> test	<0.05	0.871	0.807
Histopathological analysis	Control, VEM, CAP, CAP+VEM		2	3				
Analysis of MMP-2 gene expression <i>In vitro</i>	Control, VEM, CAP, CAP plus VEM	One-way ANOVA	3	2	Tukey HSD <i>post-hoc</i> test	<0.05	0.988	0.975
Analysis of MMP-9 gene expression <i>In vitro</i>	Control, VEM, CAP, CAP plus VEM	One-way ANOVA	3	2	Tukey HSD <i>post-hoc</i> test	<0.05	0.507	0.071
Analysis of MITF gene expression <i>In vitro</i>	Control, VEM, CAP, CAP plus VEM	One-way ANOVA	3	2	Tukey HSD <i>post-hoc</i> test	<0.05	0.972	0.945
Analysis of P21 gene expression <i>In vitro</i>	Control, VEM, CAP, CAP plus VEM	One-way ANOVA	3	2	Tukey HSD <i>post-hoc</i> test	<0.05	0.9964	0.9932
Analysis of MMP-2 gene expression <i>In vivo</i>	Control, VEM, CAP, CAP plus VEM	One-way ANOVA	2	2	Tukey HSD <i>post-hoc</i> test	<0.05	0.999	0.997
Analysis of MMP-9 gene expression <i>In vivo</i>	Control, VEM, CAP, CAP plus VEM	One-way ANOVA	2	2	Tukey HSD <i>post-hoc</i> test	<0.05	0.993	0.986
Analysis of MITF gene expression In vivo	Control, VEM, CAP, CAP plus VEM	One-way ANOVA	2	2	Tukey HSD post-hoc test	<0.05	0.1288	−0.43
Analysis of P21 gene expression In vivo	Control, VEM, CAP, CAP plus VEM	One-way ANOVA	2	2	Tukey HSD post-hoc test	<0.05	0.5746	0.2314
Correlation of <i>MITF</i> - <i>P21</i> gene expression	<i>MITF</i> gene expression, <i>P21</i> gene expression	Spearman	2	2	Spearman	<0.05		
Correlation of <i>MMP-2</i> , <i>MMP-9</i> gene expression	<i>MMP-2</i> gene expression, <i>MMP-9</i> gene expression	Spearman	2	2	Spearman	<0.05		