

S1 Table:

Summary of the anticancer activity mechanisms mediated by melatonin, *Propionibacterium acnes*, and their combination. (+: active, ++: highly active, - : no activity, +/-: slight activity).

Anticancer mechanism	Melatonin	<i>Propionibacterium acnes</i>	Combination effect
Apoptosis induction	+	++	+++
Inhibition of VEGF expression	+	-	+
INF- γ induction	++	+	+++
Induce tumor necrosis	+	++	+++
Reduction of tumor size	+	-	++
Inhibit metastasis	-/+	-/+	+