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## **Effects of propofol on cancer development and chemotherapy: potential mechanisms**

Sufang Jiang, Ya Liu, Lining Huang, Fuzhen Zhang, Rongtian Kang\*

Department of Anesthesiology, The Second Hospital of Hebei Medical University, Shijiazhuang 050000, Hebei, P R China

\***Corresponding author:** Rongtian Kang, Department of Anesthesiology, The Second Hospital of Hebei Medical University, Shijiazhuang 050000, Hebei, P R China kangrongtian@126.com

### **Abstract**

Propofol (2, 6-diisopropylphenol) is the commonly used intravenous sedative-hypnotic agent. Accumulating evidence shows that propofol affects cancer development by direct and indirect ways. In this review, we will provide an overview of the effects of propofol on cancer development and chemotherapy, with a special focus on the underlying molecular mechanisms involved. Propofol regulates both microRNAs (miRNAs) and long non-coding RNAs (lncRNAs), and serves as a regulator of different signaling pathways including hypoxia-inducible factor-1 $\alpha$  (HIF-1 $\alpha$ ), mitogen-activated protein kinase (MAPK), nuclear

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