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Title: Antitumor activity of conventional and supercritical extracts from *Piper nigrum* L. cultivar Bragantina through cell cycle arrest and apoptosis induction

Authors: Valdelúcia M.A.S. Grinevicius, Kátia S. Andrade, Fabiana Ourique, Gustavo A. Micke, Sandra R.S. Ferreira, Rozangela C. Pedrosa



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Highlights

Piper nigrum L. cultivar Bragantina SFE200 was cytotoxic *in vitro* to MCF-7 cells.

SFE200 antitumor activity can be related to CT DNA intercalation and damage.

SFE200 inhibited Ehrlich ascites carcinoma growth and increased survival of mice.

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