References on Chanca Piedra (*Phyllanthus niruri*) from Part 3 of Fighting Cancer with Plants from the Rainforest By Leslie Taylor

The published research referenced in the book which is shown below will include the initials **HS**, **IVT**, **IVA**, **REV**, **INS**, **REV** and **NEW**. HS refers to research conducted in humans; IVT refers to *in vitro* research conducted inside of test tubes; IVA refers to *in vivo* research conducted in animals; REV refers to a review article that evaluated and summarizes multiple studies on the subject; INS refers to *in silico* research (newer computer modeling including molecular docking studies) and NEW refers new biological research methods which determine genes and signaling pathways, and molecular pathways of actions which were developed during and after the Human Genome Project discussed in chapter 4.

This research below was last updated in August 2025. To view research published after that time, follow these links to the National Institute of Health's National Library of Medicine on **Chanca Piedra**.

Cancer Research on Chanca Piedra

Reviews:

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Prabakaran, N., et al. "Geraniin: A dietary ellagitannin as a modulator of signalling pathways in cancer progression." *Fitoterapia*. 2024 Sep; 177:1 06107. {**REV**)

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Hazafa, A., et al. "The role of polyphenol (flavonoids) compounds in the treatment of cancer cells." *Nutr. Cancer.* 2020; 7 2(3): 386-397. (**REV**)

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Gupta, A., et al. "Corilagin in cancer: A critical evaluation of anticancer activities and molecular mechanisms." *Molecules*. 2019 Sep; 24(18): E3399. [**Free Article**] (**REV**)

Sharma, A., et al. Polyphenols in food: Cancer prevention and apoptosis induction." *Curr. Med. Chem.* 2018; 25(36): 4740-4757. (**REV**)

Kaur, N., et al. "Phytochemistry and pharmacology of *Phyllanthus niruri* L.: A review." *Phytother. Res.* 2017 July; (31)7: 980-1004. (**REV**)

Kamruzzamn, H., et al. "A review on ethnomedicinal, phytochemical and pharmacological properties of *Phyllanthus niruri*." *J. Med. Plant. Stud*. 2016; 4(6): 173-180. (**REV**)

Lee, N., et al. "The pharmacological potential of *Phyllanthus niruri*." *J. Pharma. Phamacol.* 2016 Mar; 68: 953-969. (**REV**)

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pharmacological profile." *J. Pharma. Res.* 2012; 5(9): 4681-4691. (**REV**)
Joseph, B., et al. "An overview: pharmacognostic properties of *Phyllanthus amarus* Linn" *Int. J. Pharmacol.* 2011; 7(1): 40-45. (**REV**)
Ankuret, R., et al. "*Phyllanthus amarus*: an ample therapeutic potential herb." *Int. J. Res. Ayurv. Pharm*. 2011; 2(4): 1096-1099. (**REV**)
Patel, J., et al. "*Phyllanthus amarus*: ethnomedicinal uses, phytochemistry and pharmacology: a review." *J. Ethnopharmacol.* 201(Nov; 138(2): 286-313. (**REV**)
Islam, A., et al. "Phytopharmacology of *Phyllanthus amarus*: an overview." *Pharmacology*. 2008; 3: 202-209. (**REV**)
Bagalkotkar, G., et al. "Phytochemicals from *Phyllanthus niruri* Linn. and their pharmacological properties: A review." *J. Pharm. Pharmacol.* 2006 Dec; 58(12): 1559-70. (**REV**)

Test Tube Studies on Multiple Cancer Cell Lines:
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Diaz, L., et al. “Chemical composition and bioactivity dataset integration to identify antiproliferative compounds in *Phyllanthus* plants.” *Pharmaceutics*. 2024 Oct; 16(11): 1381. (**IVT, NEW**)
Silva, M., et al. “Bioguided fractionation of *Phyllanthus spp*.: Unveiling anticancer potential through metabolomic correlation and ADMETox insights.” *Chem. Biodivers.* 2024 Jul; 21(7): e202400670. (**IVT, INS, NEW**)
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Ng, K., et al. "Anti-angiogenic and cytotoxicity studies of some medicinal plants." *Planta Med*. 2010 Jun; 76(9): 935-40.
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Sripanidkulchai, B., et al. "Antimutagenic and anticarcinogenic effects of *Phyllanthus amarus.*" *Phytomedicine* 2002; 9(1): 26-32. (**IVT**)

Brain Cancer:

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Zhou, R., et al. “Chemoprotective effects of geraniin against azoxymethane induced colorectal cancer by reduction of inflammatory reaction.” *J..Oleo Sci.* 2021; 70(6): 817-825. (**IVA, IVT, NEW**)
Araujo, R., et al. "Growth inhibitory effects of *Phyllanthus niruri* extracts in combination with cisplatin on cancer cell lines." *World J. Gastroenterol.* 2012 Aug; 18(31): 4162-6168. (**IVT**)

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Raphael, K., et al. "Inhibition of N-Methyl N'-nitro-N-nitrosoguanidine (MNNG) induced gastric carcinogenesis by *Phyllanthus amarus* extract." *Asian Pac. J. Cancer Prev.* 2006 Apr-Jun; 7(2): 299-302. (**IVA, IVT**)

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Li, S., et al. [Corilagin-induced apoptosis of oral squamous carcinoma CAL-27 cells *in vitro* and *in vivo* and its mechanism]. Shanghai Kou Qiang Yi Xue. 2023 Oct; 32(5): 462-467. (**IVA, IVT, NEW)**
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Wu, C., “Anti-esophageal cancer effect of corilagin extracted from Phmllanthi fructus via the mitochondrial and endoplasmic reticulum stress pathways.” *J. Ethnopharmacol.* 2021 Apr; 269: 113700. (**IVA, IVT, NEW)**
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Krithika, R., et al. "Isolation, characterization and antioxidative effect of phyllanthin against CCl4-induced toxicity in HepG2 cell line." *Chem. Biol. Interact*. 2009 Oct 30; 181(3): 351-8. (**IVT, NEW**)

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Hu, Q., et al. “Tannins in *Phyllanthus emblica* L. improves cisplatin efficacy in lung cancer cells by boosting endoplasmic reticulum stress to trigger immunogenic cell death.” *Phytomedicine*. 2024 Jan; 123: 155219. (**IVT, IVA, NEW)**

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Tang, Y., et al. "Inhibition of MAPKs, Myc/Max, NFB, and hypoxia pathways by *Phyllanthus* prevents proliferation, metastasis and angiogenesis in human melanoma (MeWo) cancer cell line." *Int. J. Med. Sci.* 2014 Apr; 11(6): 564-77. (**IVT, INS, NEW**)

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Ovarian Cancer:

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Pancreatic Cancer:

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Thippeswamy, A., et al. "Protective role of *Phyllantus niruri* extract in doxorubicin- induced myocardial toxicity in rats." *Indian J. Pharmacol*. 2011 Feb; 43(1): 31-35. (**IVA, IVT, NEW**)
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