

Chapter VI

Conclusion

MCF-7

P. mirifica

- *P. mirifica* was proven to be a potent herb for alternative HRT because its proliferative effect on estrogen receptor positive cell, MCF-7 was estrogenic response of the cells.
- *P. mirifica* might not suitable to developed into the anti-cancer drug because its very high ED₅₀ value.
- *P. mirifica* may not be safe for women with the pre-existing estrogen receptor positive breast cancer and other estrogen-related cancer due to the fact that *P. mirifica* extract could stimulate the growth of MCF-7 at low concentration as did by estradiol.

P. lobata

- *P. lobata* was able to consume as food due to the fact that its extract did not show any significant effect on MCF-7 cell line.

B. superba

- *B. superba* was shown to be a potent anti-cancer herb which could developed its pure chemical into anticancer drug as it exhibited no proliferative but strong antiproliferative effect.

M. collettii

- The consumption of *M. collettii* may not be save due to the fact that its extract showed strongly antiproliferative effect at high concentration. The ED₅₀ of the crude extract was very low and thus enable to be developed into a potential anti cancer drug.

HeLa***P. mirifica***

- *P. mirifica* extract showed no significant proliferative effect but mild antiproliferative effect (high ED₅₀) on estrogen receptor negative, HeLa cells. It might conclude that the consumption of *P. mirifica* could not affect the proliferation of the estrogen receptor negative cervical cancer.

B. superba

- Due to the fact that *B superba* showed no proliferative effect with fairly anti proliferative effect on HeLa cell. It might conclude that *B. superba* could be used in women with pre-existing cervical cancer without any risk.

M. collettii

- *M. collettii* extract showed no proliferative but highly antiproliferative effect (low ED₅₀) on HeLa cell. Its pure chemical might be possible to be developed into anticancer drug.