

CHAPTER 3

CONCEPTUAL FRAMEWORK AND HYPOTHESIS

3.1 Conceptual Framework

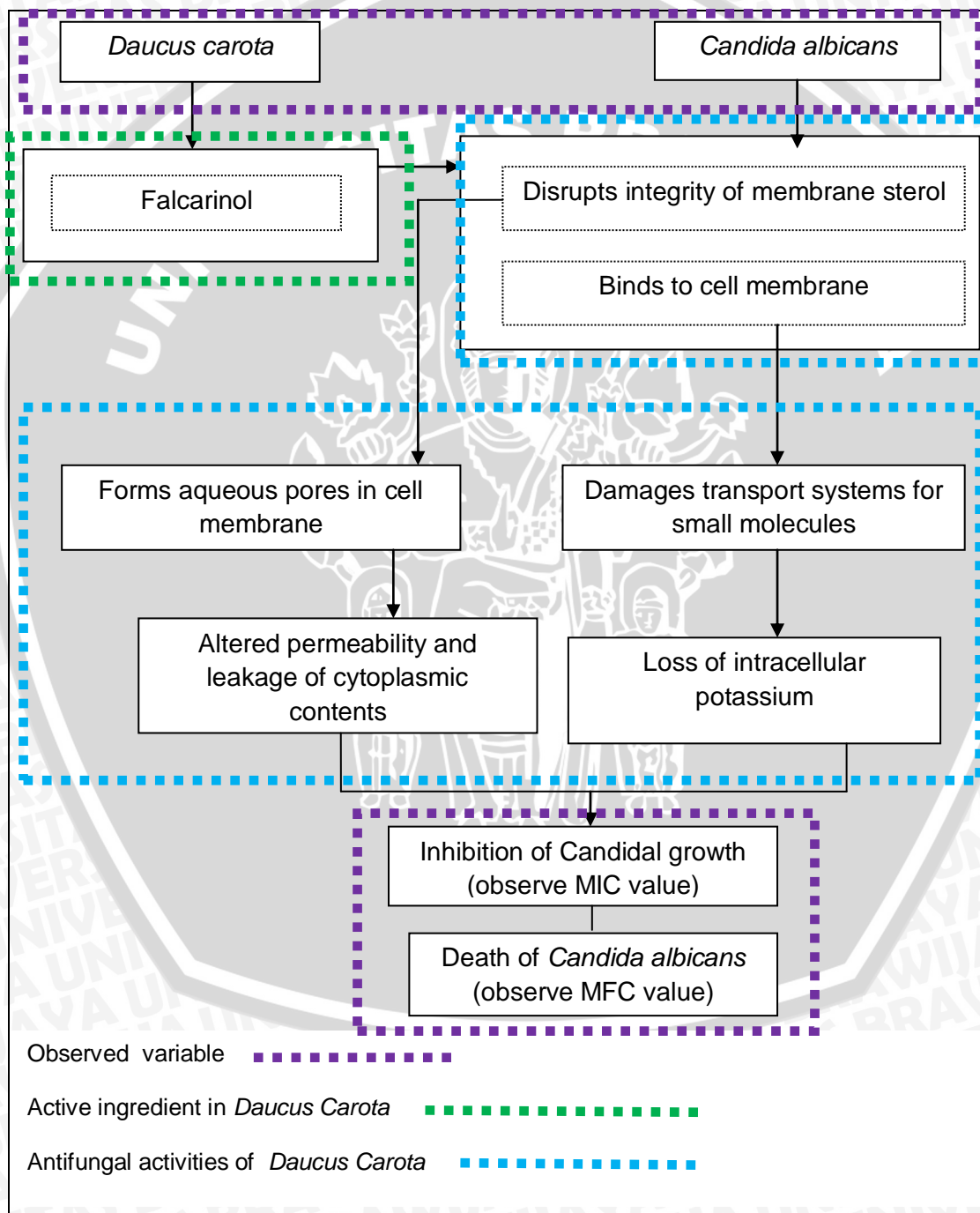


Figure 4 Conceptual framework

The above conceptual framework shows how the mechanism of inhibitory of falcarinol on *Candida albicans*. Falcarinol will inhibit *Candida albicans* in two ways. The first is by disrupting the integrity of membrane sterol which forms aqueous pores in the cell membrane and causes altered permeability and leakage of cytoplasmic contents. The second is by binding to cell membrane which will damage the transport systems that carries small molecules. The end result of this two ways is the death of *Candida albicans*.

3.2 Hypotheses

- Ethanol extract of *Daucus carota* have antifungal activity towards *Candida albicans* in vitro.
- The higher the concentration of *Daucus carota* extract, the lower the growth of *Candida albicans*.

