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Title: Anti-microbial and anti-biofilm compounds from Indonesian medicinal plants
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1. Indonesian medicinal and spice plants are one of the most valuable natural resources for the discovery of novel anti-biofilm agent (this thesis).

2. A TLC-bioautography is still an excellent preliminary method to identify biological activity of natural compounds in a mixture prior to separation (this thesis).

3. The ability to interfere with microbial cell-to-cell communication manipulates microbial community behavior (this thesis).

4. Except for industrial use as a butter and milk flavor, massoia lactone is yet little explored, however it forms an interesting compound as a novel anti-biofilm agent (this thesis).

5. Validation of the efficacy of plant bioactive compound(s) requires extensive study on biological and pharmacological activities (this thesis).

6. Most of the studies on biological activity of plant extracts are focused on identifying and isolating single active compounds instead of studying the medicinal properties of whole plant extracts. Herbalist, however, consider that the medicinal value of a plant is based on the synergistic interactions between both the plant’s known and unknown compounds.

7. As humans, microbes are very social. They prefer to live in a community called biofilms, occupy surface areas and build shelters to enhance the survival chances of each single individual. Opposite to the good things in life, biofilms are easy to get, but hard to lose.

8. On all levels of biological organization, interdependence is surely more beneficial than independence.

9. Quorum sensing ensures that an individual microbial cell does not engage in an unproductive and inefficient behavior (Bassler, B. L., 2002, Small Talk: Cell-to-Cell Communication in Bacteria, Cell, 109: 421–424.)

10. Although high throughput screening (HTS) is now used for drug discovery to screen large numbers of compounds against a biological target, working with traditional or local healers still remains an authentic method for the identification of potential sources that may be essential for the development of novel pharmaceuticals (Mitra, R., Mitchell, B., Gray, C., Orbell, J., Coulepis, T., Muralitharan, M.S., 2007, Medicinal Plants of Indonesia, Asia-Pacific Biotech News APBN, 11 (11): 726-742).

11. Despite the fact that it is not google-able, the future will be much better than now and the past.

12. Writing a dissertation is harder than having a baby. You know exactly how long pregnancy takes. You don't need to explain repeatedly to friends and family what it takes to make a
baby, and why you're not through yet. No matter how much trouble it was doing it, some people will gladly have more than one baby.