Cover sheet

NATIONAL UNIVERSITY OF SINGAPORE

SP1541 EXPLORING SCIENCE COMMUNICATION THROUGH POPULAR SCIENCE

Assignment: Book Chapter Reflection

Name: Claudeon Reinard Susanto

Matriculation No.: A0239079R

Tutorial Group: S19

Major(s): Data Science and Analytics

Selected book chapter (only for Book Chapter Reflection): Napoleon's Buttons (Chapter 12; p.223-245)

*Delete as appropriate

Reflection

The author uses description and exemplification to inform and engage the reader.

In p.229 section 2, the author gives a brief description of the structures of the various cardiac glycoside molecules mentioned in the previous two paragraphs. The molecules are described as having “the same structural feature” and “five-membered lactone ring” as well as “an extra OH” which gives rise to the “cardiac effect”. This description is effective in informing the reader that molecules’ structures and chemical groups determine their effects on the human body. This also effectively allows the reader to think of molecules as objects with shapes and components much like real world objects, rather than imagining them as abstract concepts which might be confusing.

In p.231 section 3, the author gives specific examples of physiological effects that are “often welcomed by humans” of the different members of alkaloids. These range from acrecaidine which is used as a stimulant, to reserpine which is used to treat high blood pressure. This strategy is largely effective in engaging the reader as they can understand how alkaloids have beneficial physiological effects through concrete examples in the field of medicine today, as well as appreciate the molecules’ far-reaching impacts. However, there are technical terms that might not be understood even by an educated reader such as “decongestant” and “bronchodilator”, thus these physiological effects are not really clear. Overall, this strategy is still effective as other commonly encountered examples, such as Vitamin B and blood pressure treatment, can still illustrate alkaloids’ beneficial effects.

(250 words)

References (including the book chapter):

Couteur, L. P., & Burreson, J. (2014). Molecules of Witchcraft. In Napoleon's buttons: 17 molecules that changed history (pp. 223–245). Jeremy P. Tarcher/Penguin.