

## CHAPTER V

### CONCLUSION AND RECOMMENDATION

#### 5.1. Conclusion

The study of Learning Media Usage In Biology Learning and Perception on Non-ICT Biology Learning Media (abbreviated as NICTBlm) from Biology Department at State University Of Medan With Its Suitability Overview on Curriculum 2013 led to following conclusion;

1. The collection of 39 Non ICT Biology Learning media samples have been documented in printed catalogue with customized indexation following herbarium guidelines and distributed to biology teachers in this study prior to absence of specialized indexation guide for learning media in educational research.
2. NICTBlm considered most applicable and suitable for National Curriculum of 2013 (K-13) by biology teacher are media number 2, 6, and 35 each obtained 2 votes. Kinetical sensations, dimensional advanceness, recreateability, adjustability, physical visuals, multisensory experiences, independent and students-dominant exploration are distinct features from NICTBlm which considered supportive to desired learning settings in Curriculum 2013 reflected from teacher interview result and related research.
3. Majority of substantial recommendation from biology teachers concerned on the needs of improvement in following aspect; (1) majority of NICTBlm built materials are prone to external damaging factors such as Carton Paper, Flanellette, Paper Pulp, and Styrofoam; (2) Inclusiveness of biology topic considered inadequately representative both from Grade-based and topic-based perspectives as 26 samples from total 39 coming from Grade XI with lack of topic variation; (3) Learning media creator needs to improve the comprehensions of biological features trying to be visualized in media as some NICTBlm are visually attractive but lack in topic comprehension.

## 5.2. Recommendation

Despite the novelty of study on Non ICT biology learning media on educational research, findings from study indicated there is immense amount of interest both from teachers and students regarding Non ICT biology learning media usage on biology teaching and learning activity. Students especially, indicated immense interest with Non ICT biology learning media and it is suggested for educator to use Non ICT type learning media more frequent.

With incomparable benefit to other kind of learning media such as kinesthetical sensations and multisensory learning experiences, the development of Non ICT based learning media is promising approach to be improved in educational practices, especially with National Curriculum of 2013 which demanded active learning and student-centered learning settings.

It is also suggested for learning media creator, specifically student-teacher who envision to be educator to provide their learning media with user guideline to prevent misinformation about topic they are trying to visualize in pre-created Non ICT learning media.