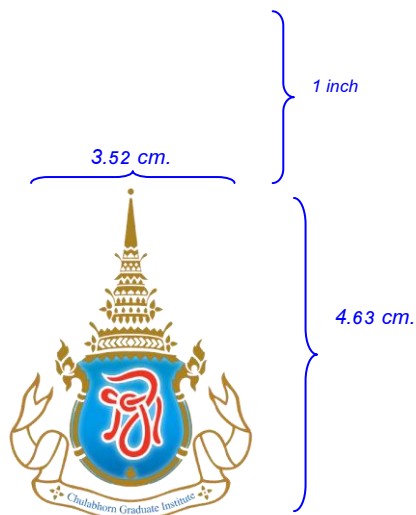




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**Characterization of Bioactive Metabolites from *Albizia lebbeck*,
Eurycoma longifolia, and Marine-derived Fungi**

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Master of Science (Chemical Biology)
Chemical Biology Program
Chulabhorn Graduate Institute
Thailand
Academic Year 2009**

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Characterization of Bioactive Metabolites from *Albizia lebbeck*, *Eurycoma longifolia*, and Marine-derived Fungi

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Kyaw Thet Oo

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Eurycoma longifolia, and Marine-derived Fungi**

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Mr. Kyaw Thet Oo
Student

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Assoc. Prof. Dr. Nopporn Thasana
Thesis Advisor

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Dr. Poonsakdi Ploypradith
Thesis Co-Advisor

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Assoc. Prof. Dr. Piniti Ratananukul
Program Director

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**Characterization of Bioactive Metabolites from *Albizia lebbeck*,
Eurycoma longifolia, and Marine-derived Fungi**

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on
June 30, 2008

Defense Examination Date

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Mr. Kyaw Thet Oo
Student

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Prof. Emeritus Dr. Somsak Ruchirawat
Chairperson

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Assoc. Prof. Dr. Nopporn Thasana
Committee

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Dr. Poonsakdi Ploypradith
Committee

รูปแบบการเขียนข้อมูลการตีพิมพ์เผยแพร่ผลงานวิจัยในเล่มวิทยานิพนธ์

ด้วยงานส่งเสริมวิชาการ ได้รับข้อเสนอแนะเพิ่มเติมจากคณะกรรมการวิชาการว่า ควรมีการใส่ชื่อผลงานวิจัยที่ได้รับการตีพิมพ์เผยแพร่ผ่านวารสารวิชาการระดับนานาชาติ (Publication) และผ่านรายงานสืบเนื่องจากการประชุมวิชาการ (Proceedings) ในหน้า Abstract ของเล่มวิทยานิพนธ์ต่อจากรายการ Keywords ดังนั้น งานส่งเสริมวิชาการ จึงขอแจ้งตัวอย่างการแสดงผลงานวิจัยในรูปแบบต่างๆ ดังนี้

รูปแบบสำหรับการแสดงผลงานวิจัยที่ได้รับการตีพิมพ์เผยแพร่ผ่านวารสารวิชาการระดับนานาชาติ (Publication)

Kullapanich C, Dubbs JM, Mongkolsuk S. Inactivation of the *Agrobacterium tumefaciens* ActSR system affects resistance to multiple stresses with increased H₂O₂ sensitivity due to reduced expression of *hemH*. Microbiology. 2019;165(10):1117-34.

รูปแบบสำหรับการตีพิมพ์เผยแพร่ผ่านรายงานสืบเนื่องจากการประชุมวิชาการ(Proceedings) ให้เรียงลำดับการแสดงผลงานดังนี้

Author. Title of paper. Proceedings of the Title of Conference; Year Month Date of Conference; Location of Conference, Place of publication. p. first-last page.

ตัวอย่าง

e.g. The Annual Conference of the Center of Excellence on Environmental Health and Toxicology (EHT)

Saensuk S, Sureram S, Ruchirawat S, Kittakoop P. ชื่อเรื่อง. Proceedings of the Annual Conference of the Center of Excellence on Environmental Health and Toxicology; 2019 Nov 2; Chulabhorn Research Institute, Bangkok. p. first-last page.

e.g. Thai Neuroscience Society Conference (TNS)

Chaopae W, Nopparat C, Govitrapong P. ชื่อเรื่อง. Proceedings of the 23rd Thai Neuroscience Society Conference; 2019 Dec 11; Chulabhorn Graduate Institute, Bangkok. p. first-last page.

e.g. Protein Society of Thailand (PST)

Dang CB, Ruangjaroon T, Saharat K, Svasti J, Paricharttanakul NM. ชื่อเรื่อง. Proceedings of the 14th International Symposium of the Protein Society of Thailand; 2019 Jul 22-23; Maruay Garden Hotel, Bangkok. p. first-last page.

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Times New Roman, 14 points, Bold → **Acknowledgements**

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I would like to express my indebtedness to the individuals who have been involved in this research. Many thanks to.....

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Kyaw Thet Oo

Defense Examination Date ← June 2008

For all students who receive any types of scholarships, the acknowledgement is required to verify the information of the scholarships you were granted (please contact the office of Academic Support Division for more information);

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Thesis Title: Characterization of Bioactive Metabolites from *Albizia lebbeck*,
Eurycoma longifolia, and Marine-derived Fungi

By: Kyaw Thet Oo 012345678 M.Sc. (Chemical Biology)

Thesis Advisor: Prasat Kittakoo, Ph.D. *1.5 line spacing*

Thesis Co-Advisor: (Input if you have Co-Advisor)

85 P. → (The number of page from Chapter 1 to Biography)

ABSTRACT ← *Times New Roman, 12 points, Bold*

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The results of this study suggested that.....

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Keywords: Bioactive, DC-SIGN receptor,

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Proceedings: / Publication(s):

Proceedings: / Publication(s): (According to a list of proceedings/ publication(s)
for graduation requirement informed by Thesis Advisor)

ในหน้า **Abstract** ให้ใส่เฉพาะผลงานที่ใช้ยื่นขอสำเร็จการศึกษาเท่านั้น

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Program ... Chemical Biology.....

Student's Signature.....

Academic Year2009.....

Advisor's Signature

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Times New Roman, 14 point, Bold → **Table of Contents** } 1 blank line (Single-spaced)

Chapter	Title	Page
	Acknowledgements	iii
	Abstract	iv
	List of Tables	vi
	List of Figures	vii
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	1.2 Statement of the problem	11
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4	Results	55
5	Discussion	67
6	Conclusion and Recommendation	71
	References	75
	Appendices	82
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* Methodology can be divided into sub-topics, as appropriate for each research study.

** Results and Discussion can be combined into one chapter.

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Chapter	Title	Page
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1.1	The comparisons of ...	18
1.2	Evaluation of	20
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1.1 Compounds isolated from *Albizia lebbeck*

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2.2 Compounds isolated from *Eurycoma longifolia*

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Figure

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Introduction

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↔ The molecular biology revolution and the advent of genomic and proteomic technologies are facilitating rapid advances in our understanding of the molecular details of cell and tissue function. These advances have the potential to transform toxicological and clinical practice, and are likely to lead to the supplementation or replacement of traditional biomarkers of cellular integrity, cell and tissue homeostasis, and.....

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1.1 Rationale for this thesis

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1.2 Statement of the problem

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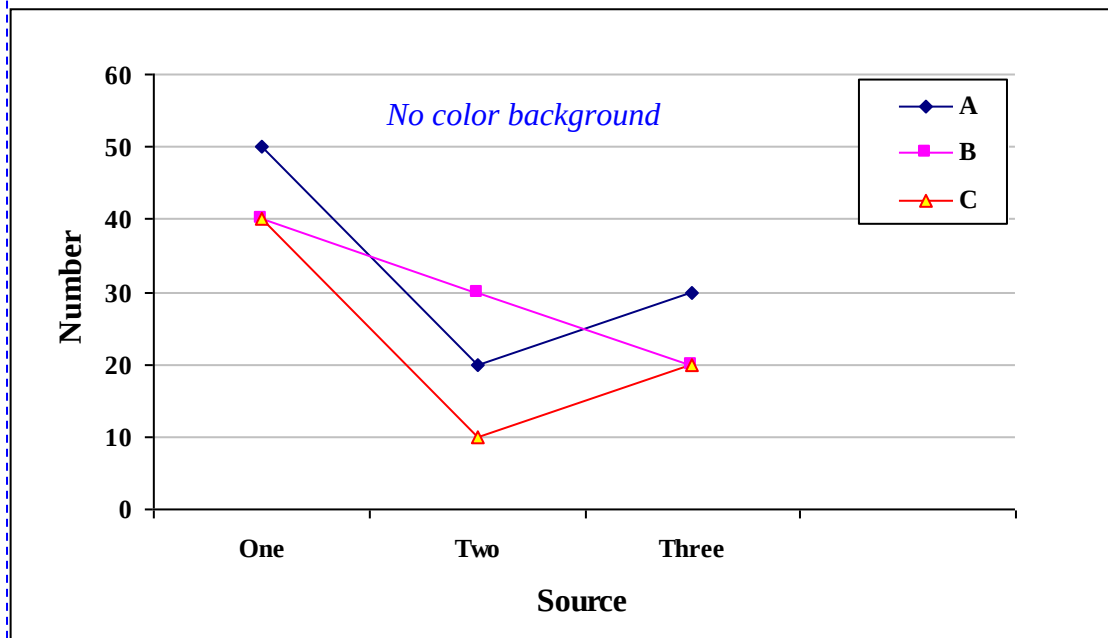


Figure 2.1 The comparisons of

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Table 1.1 The comparisons of ... (cont.)

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1. Vancouver Style
2. ACS Style
3. APA Style

[As detailed on next page;](#)

References

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Example for article with 1 to 6 authors

1. Rahimi M, Sharifi-Zarchi A, Zarghami N, Geranpayeh L, Ebrahimi M, Alizadeh E. Down-regulation of miR-200c and up-regulation of miR-30c target both stemness and metastasis genes in breast cancer. Cell Journal. 2020;21(4):467-78.

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Example for article with more than 6 authors

2. Shi X, Shi C, Ye W, Wang L, Zhan Y, Song F, et al. Targeted fluorescence imaging and biological effects of peptide conjugated quantum dots on pancreatic cancer cells. Journal of Nanoscience and Nanotechnology. 2020;20(3):1351-7.

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Example for Books

3. Kaseb H, Gupta G. Cancer, Lymphoblastic lymphoma. 4th ed. Treasure Island (FL): StatPearls Publishing; 2019. 3001 p.

Example for Book Chapters

4. Belter B, Haase-Kohn C, Pietzsch J. Biomarkers in malignant melanoma: Recent trends and critical perspective. In: Ward WH, Farma JM, editors. Cutaneous Melanoma: Etiology and Therapy. 2nd ed. Brisbane (AU): Codon Publications; 2017. p. 501-99.

Example for Patents

5. Brager B, inventor; PERCEPTION PARTNERS Inc, assignee. Method for marketing rights to intellectual assets. United States patent US 2005/0222959 A1. 2005 Oct 6.

Example for Reports

6. Rowe IL, Carson NE. Medical manpower in victoria: Report. East Bentleigh (AU): Monash University Department of Social & Preventive Medicine; 1979. Report No.: 4.

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Example for Dissertations

7. Leelayuwapan H, Ruchirawat S. Rapid synthesis and biological studies of the lipomannan backbone glycans found on the surface of mycobacterium tuberculosis [Dissertation]. Bangkok: Chulabhorn Graduate Institute; 2017.

Example for Theses

8. Tachachartvanich P, Satayavivad J. The effects of chlorpyrifos on neuronal and non-neuronal cholinergic cancer cells [Master's thesis]. Bangkok: Chulabhorn Graduate Institute; 2012.

Example for Web Sites

9. Chulabhorn Graduate Institute. Academic Programs [internet]. 2016 [cited 2019 Sep 11]. Available from: <https://www.cgi.ac.th/programs>.

Example for Conference Paper

10. Chaopae W, Nopparat C, Govitrapong P. Melatonin attenuates β -amyloid production in SH-SY5Y cells under hyperglycemic condition. Proceedings of the 23rd Thai Neuroscience Society Conference; 2019 Dec 11; Chulabhorn Graduate Institute, Bangkok. p. 26-31.

References

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Example for article with 1 to 6 authors

1. Rahimi, M.; Sharifi-Zarchi, A.; Zarghami, N.; Geranpayeh, L.; Ebrahimi, M.; Alizadeh, E. Down-regulation of miR-200c and up-regulation of miR-30c target both stemness and metastasis genes in breast cancer. *Cell J.* **2020**, *21*, 467-478.

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Example for article with more than 6 authors

2. Shi, X.; Shi, C.; Ye, W.; Wang, L.; Zhan, Y.; Song, F.; Liu, F.; Shi, Y. Targeted fluorescence imaging and biological effects of peptide conjugated quantum dots on pancreatic cancer cells. *J. Nanosci. Nanotechnol.* **2020**, *20*, 1351-1357.

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Example for Books

3. Kaseb, H.; Gupta, G. *Cancer, Lymphoblastic lymphoma*. 4th ed.; StatPearls Publishing: Treasure Island (FL), 2019; p 3001.

Example for Book Chapters

4. Belter, B.; Haase-Kohn, C.; Pietzsch, J. Biomarkers in malignant melanoma: Recent trends and critical perspective. In *Cutaneous Melanoma: Etiology and Therapy*, 2nd ed.; Ward, W. H.; Farma, J. M., Eds. Codon Publications: Brisbane (AU), 2017; pp 501-599.

Example for Patents

5. Brager, B. Method for marketing rights to intellectual assets. US Patent Application 2005/0222959 A1, Oct 6, 2005.

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References

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Example for article with 1 to 6 authors

Rahimi, M., Sharifi-Zarchi, A., Zarghami, N., Geranpayeh, L., Ebrahimi, M., and Alizadeh, E. (2020). Down-regulation of miR-200c and up-regulation of miR-30c target both stemness and metastasis genes in breast cancer. *Cell Journal*, 21(4), 467-478. doi:10.22074/cellj.2020.6406

Example for article with more than 6 authors

Shi, X., Shi, C., Ye, W., Wang, L., Zhan, Y., Song, F., Liu, F., and Shi, Y. (2020). Targeted fluorescence imaging and biological effects of peptide conjugated quantum dots on pancreatic cancer cells. *Journal of Nanoscience and Nanotechnology*, 20(3), 1351-1357. doi:10.1166/jnn.2020.16949

Example for Books

Kaseb, H., and Gupta, G. (2019). *Cancer, Lymphoblastic lymphoma* (4th ed.). Treasure Island (FL): StatPearls Publishing.

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Example for Book Chapters

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Example for Patents

Heyer, G. E. (2004). *United States Patent No. US 8,775,322 B2*. Retrieved from <https://patentimages.storage.googleapis.com/66/e3/92/23ee4cb1b47d9a/US8775322.pdf>

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Rowe, I. L., and Carson, N. E. (1979). *Medical manpower in victoria: Report* (No. 4). Retrieved from East Bentleigh (AU): <https://doi.org/10.5694/j.1326-5377.1979.tb112165.x>

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Chulabhorn Graduate Institute. (2016). Academic Programs. Retrieved from <https://www.cgi.ac.th/programs>

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Biography

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Name

Mr. Kyaw Thet Oo

Date of Birth

March 3, 1985

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Place of Birth

....., Myanmar

Degree(s) obtained

B.Eng. (Chemical Engineering)

Mandalay Technological University, 2005

Position & Office

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Tel.

Home Address

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Honor and Award(s)

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