

from the President of Chiang Mai University

2nd INTERNATIONAL ANATOMICAL SCIENCES AND CELL BIOLOGY CONFERENCE
IN COJUNCTION WITH
36th ANATOMY ASSOCIATION OF THAILAND ANNUAL CONFERENCE

December 6-8, 2012

Venue: Chiang Mai Grandview Hotel, Chiang Mai, Thailand

In addition to the highlight of the IASCBC 2012, "Perspectives in Anatomical Sciences", many distinguished invited speakers across the world will be sharing with our delegates their knowledge and experiences. This will provide our next generation information to generate ideas or even in a new light for education and research in anatomy and cell biology.

I would like to take this opportunity to thank Professor Pangs Pichakarnsomb, chairperson of the organizing committee of IASCBC 2012, and Associate Professor Jit-anon Pichitmanakul, chairperson of AAT and our lovely sponsors for their generous supports, and to wish all participants the most fruitful and stimulating conference in IASCBC 2012.

Message from the Acting Dean of Faculty of Medicine, Chiang Mai University

W. Uta Nawacharoen, M.D.
Associate Professor

It is my great privilege as Acting Dean of Faculty of Medicine, Chiang Mai University, to welcome you to our beautiful campus to attend distinguished researchers who have gathered for the 36th Anatomy Association of Thailand and 2nd International Anatomical Sciences and Cell Biology Conference.

As one of the most renowned medical schools in Thailand for more than half a century, this institution has produced many of Thailand's professional, scientific and teachers whose accomplishments are growing to be of great importance in the world. We are proud of these achievements and are continuously updated and developing our programs. I believe that we are



Organized by
Department of Anatomy, Faculty of Medicine, Chiang Mai University
AND Anatomy Association of Thailand

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Message from the Acting Dean of Faculty of Medicine, Chiang Mai University

Wattana Nawacharom, M.D.
Associate Professor

It is my great privilege to announce that the Faculty of Medicine, Chiang Mai University, is pleased to host the 2nd International Anatomical Sciences and Cell Biology Conference (IASCBC 2012) and the 36th Anatomy Association of Thailand Annual Conference (AAT) in Chiang Mai, Thailand.

As one of the most renowned medical schools in Thailand for more than half a century, this institution has a long history of training professional, scientists and teachers whose dedication and hard work are being moved to be of great importance in advancing the quality of health care in our country. We are proud of these achievements and are committed to continuously updated and new knowledge and skills to meet the challenges of the 21st century.



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AND Anatomy Association of Thailand

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Message

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Message from the President of Chiang Mai University

Niwet Nantajit, M.D.
Associate Professor



In 2010, a great success of the 1st International Anatomical Science and Cell Biology Conference (IASCBC 2010) in Singapore has led to an increasing in public interest in body donation for medical education and research. Subsequently, in 2 following years, thanks to the organizing committee of IASCBC 2012 and the Anatomy Association of Thailand (AAT), it is an opportunity for the Department of Anatomy of Faculty of Medicine of Chiang Mai University to organize the 2nd IASCBC 2012.

For more than 5 decades has the Faculty of Medicine of Chiang Mai University produced not only efficient healthcare workers, but also proficient biomedical researchers. As one of the leading medical academy in Thailand, we are deeply aware of a crucial essence of basic science education and research, for a dramatic advance in various fields of medicine especially in intricate surgical interventions and pharmaceutical innovations could not have launched without a continuously developing basis in anatomy and cell biology.

In addition to the highlight of the IASCBC 2012 on "Perspectives in Anatomical Science", many distinguished invited speakers across the world will be sharing with our delegates their knowledge and experiences. This will provide our next generation information to generate ideas or even lit a new light for education and research in anatomy and cell biology.

I would like to take this opportunity to thank Professor Pasuk Mahakkanukrauh, chairperson of the organizing committee of IASCBC 2012, and Associate Professor Sukumal Chongthammakun, chairperson of AAT and our lovely sponsors for their generous supports, and to wish all participants the most fruitful and stimulating conference in IASCBC 2012.

Message from the Acting Dean of Faculty of Medicine, Chiang Mai University

Wattana Nawacharoen, M.D.
Associate Professor



It is my great privilege, as acting Dean of Faculty of Medicine, Chiang Mai University, to add my own cordial welcome to those distinguished researchers who have gathered here for the second International Anatomical Sciences and Cell Biology Conference.

As one of the most renowned medical school in Thailand for more than half a century, this institution is a community of healthcare professional, scientists and teachers whose dedicative works have proven to be of great importance in improving the quality of life of our people. We are proud of these accomplishments, but in ever-changing world, the knowledge must be continuously updated and more research questions must be solved. With the help of all participants gathered here, I believe that we are ready to come across new challenges in this evolving world.

I am honored by your attendance here, and I am excited by the scientific advancements that are assured by the presence of many famous scientists, medical doctors, researchers and students from many countries. I bid you my heartfelt welcome to Chiang Mai and I am looking forward to seeing successful collaboration among us all in the near future.

Message from the President of the Anatomy Association of Thailand



Sukumal Chongthammakun, Ph.D.
Associate Professor

It is my great pleasure, on behalf of the Anatomy Association of Thailand and the entire organizing committee, to welcome all of you from abroad and within Thailand, to Chiang Mai to participate the International Anatomical Sciences and Cell Biology Conference 2012 and the 36th Annual Conference of the Anatomy Association of Thailand. The IASCBC 2012/AAT 36 program features a broad range of keynote, plenary, forum, symposia, papers and posters that will engender an exciting exploration of important issues in the anatomical sciences and cell biology.

I am glad that two years after the first IASCBC held in Singapore in 2010, we gather together again in Thailand. This conference represents our desire to have an international forum to exchange knowledge and research to better allow us to be even better educators in the field of anatomy and cell biology. This year we have more than 400 delegates joining us from Thailand and around the world. We are so grateful to all of you for joining us here. Over these two days of academic events, you will have valuable opportunities to attend many excellent sessions presented by experts from many countries. We also have oral and poster presentation sessions for investigators and students to present their researches and share experiences among participants.

We would like to particularly acknowledge Professor Prasert Sobhon, one of our nation's foremost experts in Anatomical Sciences and Cell Biology, who has accepted our invitation to be the keynote speaker and Scientific Chair of the Conference. The successful organization of this Conference has required the talents, dedication and time of many individuals. We have been most fortunate to collaborate with a dedicated conference organizing committee.

Special gratitude and appreciation is due to our invited speakers for their invaluable contribution to the plenary lectures, forum and symposia in their areas of expertise. I would also like to thank all the delegates, presenters, sponsors and exhibitors for making the Conference an outstanding success.

I do hope that you will find some time to enjoy the wonders of Chiang Mai's cultural and night life. Museums, numerous galleries as well as live music venues are found scattered about the city, they are all easily accessed since the city is quite compact.

Welcome again to IASCBC 2012/AAT 36. Hopefully, you will enjoy the Conference and your stay in Chiang Mai.

Message from the Organizing Committee Chair



Pasuk Mahakkanukrauh, M.D.
Professor

On behalf of the organizing committee of the International Anatomical Sciences and Cell Biology Conference 2012 (IASCBC 2012), with the collaboration of Anatomy Association of Thailand, it gives me a great honor to establish this timely conference, the 2nd IASCBC.

The main objective of IASCBC 2012 is to be a platform for our delegates to meet, interact and establish network in their diverse fields of anatomical sciences and cell biology. Besides, it is also a stage on which either department faculties or graduate students could share their academic works and researches so as to continuously improve the quality of biomedical education and research, both locally and internationally.

In addition to keynote and plenary lectures by illustrious invited speakers from around the world, this IASCBC 2012 also composes of various interesting topics including neuroscience, cell biology and histology, developmental biology and animal reproduction, cancer biology, stem cell and tissue engineering, biological imaging, research in clinical anatomy, medical education, multimedia in teaching, and trend in anatomical education available in symposium, mini-symposium and forum discussion. Furthermore, not to mention the pre-conference workshop on "Advanced Microscope" held yesterday, poster presentation and oral presentation will be set in separated sessions as well.

On behalf of the organizing committee of the IASCBC 2012, I would like to take this opportunity to thank Associate Professor Niwet Nantajit, President of Chiang Mai University, Associate Professor Wattana Nawacharoen, Acting Dean of Faculty of Medicine, Associate Professor Sukumal Chongthammakun, President of AAT and our benevolent sponsors for their generous supports, and to hopefully wish all participants would find the IASCBC 2012 the most fruitful conference.

At this very moment, I would greatly receive an honor from Associate Professor Niwet Nantajit, President of Chiang Mai University to give all delegates an opening address of IASCBC 2012.

Message from the Scientific Chair

SCIENTIFIC COMMITTEE

Prasert Sobhon, Ph.D.

Professor



On behalf of the 2nd International Anatomical Science and Cell Biology Conference (2nd IASCBC) Scientific Committee, I would like to extend our hearty welcome to all participants of the Conference. The scientific programs comprise of lectures and presentations on many interesting fields of anatomy and cell biology, including developmental biology, stem cells and tissue engineering, neuroscience, cancer biology, clinical anatomy, and biological imaging. Plenary lectures, symposia, oral and poster presentations will serve as the platforms for participants to present their research findings and share experiences with others. Along with scientific research, the innovative ideas and teaching-learning methods in anatomical education will also be exchanged and discussed in the forum and mini-symposium. In addition to scientific sessions, many exhibitors and scientific equipment companies will present their latest products and technologies.

In addition to scientific discourses I hope you will also find time to make new friends and enjoy the unique northern Thai culture, hospitality as well the beautiful sceneries of Chiang Mai. To this end, I would like to invite you all to join our conference banquet in the evening of December 7th, which will be highlighted with a genuine northern Thai cuisine and cultural performances. This will be an impressive occasion to appreciate and remember the charms of northern Thailand.

I hope that, both during and after the conference, every delegate will feel richer and happier from the academic and cross - cultural experiences that are gained from this event. Please enjoy your stay during these three days, and perhaps find time to come back in the future.

Abstracts

SYMPOSIUM 1: CELL BIOLOGY

1. The Role of the Y-Box Binding Protein-1 in Breast Cancer Proliferation
Prof. Sun-Hoat Day

2. Regulation of ERV Infection in Placental Tissue
Prof. George S. W. Tsao

SYMPOSIUM 2: CANCER BIOLOGY

3. The Role of the Y-Box Binding Protein-1 in Breast Cancer Proliferation
Prof. Sun-Hoat Day

4. Regulation of ERV Infection in Placental Tissue
Prof. George S. W. Tsao

SYMPOSIUM 3: ANATOMY

5. The Role of the Y-Box Binding Protein-1 in Breast Cancer Proliferation
Prof. Sun-Hoat Day

6. Regulation of ERV Infection in Placental Tissue
Prof. George S. W. Tsao

SYMPOSIUM 4: CELL BIOLOGY

7. The Role of the Y-Box Binding Protein-1 in Breast Cancer Proliferation
Prof. Sun-Hoat Day

8. Regulation of ERV Infection in Placental Tissue
Prof. George S. W. Tsao

SYMPOSIUM 5: ANATOMY

9. The Role of the Y-Box Binding Protein-1 in Breast Cancer Proliferation
Prof. Sun-Hoat Day

10. Regulation of ERV Infection in Placental Tissue
Prof. George S. W. Tsao

Freshmen Nursing Students' Satisfaction on Teaching and Learning Management of Anatomy and Physiology I by Utilizing on Electronic Learning

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Abstract

The study was descriptive research. The purpose of the study was to explore freshmen nursing students' satisfaction on teaching and learning management by utilizing on Electronic learning (E-learning) (n=12 chapter) of Anatomy and Physiology I in Fall 2012 at Boromarajonani College of Nursing, Uttaradit, Sawanpracharak Nakhonsawan, Changwatnonthaburi, and Nakhon Ratchasima (N=525) The questionnaire was freshmen nursing students' satisfaction, and Conbarch's alpha coefficient was reconciled. ($\alpha = 0.87$). Findings revealed that overall of freshmen nursing students' satisfaction placed on a high level ($X = 4.06$, S.D. = .42), it also show that the freshmen nursing students' satisfaction was placed on the highest level on evaluation on learning and teaching ($X = 4.25$, S.D. = .49), followed by instructors ($X = 4.21$, S.D. = .44), and content of Anatomy and Physiology I ($X = 4.21$, S.D. = .44), respectively. Freshmen nursing students' satisfaction was positioned on the high level on media of learning and teaching ($X = 4.07$, S.D. = .57), followed by activities of learning and teaching ($X = 3.94$, S.D. = .58), and promoting factors on teaching ($X = 3.69$, S.D. = .65) respectively.

Keyword Satisfaction, E-learning, Anatomy and Physiology I and Freshmen nursing students

Background

The study showed that learning and teaching by utilizing on E-learning can be efficiently applied as a supplement of traditional instruction. It can help students have high study achievement (1,2) because of the learning and teaching management on the E-learning focuses on learners and centers on activities of learning and teaching. The learners are able to control a process of self-directed learning by studying from internet network from anywhere else or anytime in the world (3)

Materials and Methods

The descriptive research was to explore the freshmen nursing students' satisfaction at Boromarajonani College of Nursing, Uttaradit, Sawanpracharak Nakhonsawan, Jangwatnonthaburi, and Nakhon Ratchasima (n=525) on the teaching and learning management by utilizing on the E-learning (n=12 chapters) of Anatomy and Physiology I in Fall 2012. The questionnaire was the freshmen nursing

students' satisfaction on the teaching and learning management, consisting of 1) general information about gender, age, GPA, educational institutions before enrolling on nursing colleges, 2) the freshmen nursing students' satisfaction questionnaire on the teaching and learning management by utilizing on E-learning (n=12 chapters) of Anatomy and Physiology I in Fall 2012 about 64 items were related to content of the Anatomy and Physiology I, instructors, activities of the learning and teaching, promoting factors on teaching and evaluating of the learning and teaching. The questionnaire was a rating scale, consisting of 5 levels such as the highest level (5), high level (4), moderate level (3), low level (2), and the lowest level (1). The Conbarch's alpha coefficient was reconciled ($\alpha = 0.87$). The levels of satisfaction was divided into five levels as the highest level (4.21-5.00), high level (3.41-4.20), moderate level (2.61-3.40), low level (1.81-2.60), and the lowest level (1.00-1.80). The statistical analyses of data were utilizing on frequency

distributions, percentage, mean, and Standard Deviation (S.D.).

Results, Discussion and Conclusion

From the study, the freshmen nursing students' satisfaction was collected from Boromarajonani College of Nursing, Uttaradit, Sawanpracharak Nakhonsawan, Nonthaburi, and Nakhon Ratchasima (N=525) on the teaching and learning management by utilizing on the E-learning (n=12 chapters) of Anatomy and Physiology I in Fall 2012. The majority of subjects were female (81.8%) and male (18.2%). Subjects graduated from other higher educational institutes (6.1%).

Findings revealed that overall of the freshmen nursing students' satisfaction was a high level ($X = 4.06$, S.D. = .42) that the freshmen nursing students' satisfaction was placed on the highest level on evaluation on learning and teaching ($X = 4.25$, S.D. = .49), following by instructors ($X = 4.21$, S.D. = .44), and content of Anatomy and Physiology I ($X = 4.21$, S.D. = .44), respectively. The freshmen nursing students' satisfaction was positioned on the high level on media of learning and teaching ($X = 4.07$, S.D. = .57), following by activities of learning and teaching ($X = 3.94$, S.D. = .58), and promoting factors on teaching ($X = 3.69$, S.D. = .65), respectively.

According to Napapong, Sriwiha, and Dangmajang (4), the study reported that satisfaction of learning with E-learning from website placed on a good level. Moreover, there were many reasons that learners had a high satisfied level on teaching and learning by utilizing on E-learning such as learners got new bizarre experience from the E-learning. They were interested in the content and satisfied on getting feedback from learners related to content on each chapter. The learners also communicated with instructors from computer in informal time without collaborating with instructors. The interesting activities on the E-learning consisted of web board, online message, and opportunity on employing computers on activities of the teaching and learning instead of listening only on lecture. Furthermore, for the teaching and learning of the E-learning, learners could be able to review on lessons and quickly convenient practice on mini examination in anytime, everywhere in the world. The feedback could be made on both make an appointment and do not make an appointment with instructors. For this study, learners suggested from interesting opened questions such as learners were satisfied and having funny by using the E-learning. They would like to have teaching and learning on this style with other subjects, including experience and skills gained from the E-learning study that could apply on high responsible, intent, enthusiastic learners. The E-learning made learners easy to understanding of content of the studying, and it also improved efficiently learning based on student-centered learning (1,5). The content of Anatomy and Physiology I comprised of the E-learning books and the E-learning

of completed processing lessons that was designed on concept on each content or chapter with pictures and was easily able to refer to content related on each chapter. Thus, the learners could be understandable and unproblematic memorized on the content (6). Anatomy words or crucial words utilized bold letters or colorful letters; the learning was orderly from easy to difficult content. The learners could simply and fast review on the content (5,7). For the traditional learning and teaching in a classroom, it was confined in only the room based on classrooms, buildings, schools, learners that had to travel to their places in time. The E-learning would minimize time consume and cost on travelling by collecting all data on only one web page even though learners lived far away from their schools. They could trouble-free access the network system as well (8).

The recommendation for increasing the efficiency of the host computer is nursing colleges should improve the computer network devices and computers to enhance benefits on the teaching and learning by utilizing on the E-Learning chapters. The processing was also relatively slow because the Moodle program was needed quite a lot of resources. It also did not support learners while the nursing learners utilized their computers at the same time.

Acknowledgements

Researchers appreciated to Mr. Somkuan Hanpatchaiyakul, the Director of Praboromarajchanok Institute who supported on teaching and Electronic learning management. Advisory group of Center of Excellence for Innovative Learning and Teaching in Anatomy & Physiology Praboromarajchanok Institute (CEILTAP) that suggested on research.

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