

International Medical Science Training Course in HCMC (Summer 2016)

Faculty of Medicine

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The International Medical Science Training Course HCMC, Viet Nam, was organized by the faculty of the University of Medicine and Pharmacy (UMP) and members of the HCMC Biotechnology Center, in collaboration with University of Tsukuba.

Objective: This one-week program provides students with an opportunity to expand their international outlook, enrich their scope for their future career goals in Medical Sciences, and improve their English language abilities. The program is designed for qualified undergraduate students from the University of Tsukuba, majoring in medical sciences, to travel to one of our partner universities overseas and work alongside students from that institution to conduct research or a medical training course. Participants are expected to share their knowledge and actively communicate with faculty and other students. On the final day, all students have the opportunity to present about their accomplishments.

Participating Students: Six medical science undergraduate students from the University of Tsukuba and six undergraduate students from UMP participated in the program. Students from Tsukuba were paired with students from UMP and each pair conducted different experiments.

Dates: Aug 25 – Sept 1, 2016

Course design: This course was conducted at two venues: UMP and HCMC Biotechnology Center. At UMP, the students conducted research in the laboratory facilities, toured the university hospital and clinical facilities, and had some short lecture classes from faculty members of UMP and Tsukuba. At HCMC Biotechnology Center, students spent a day in the laboratories conducting biotechnology experiments. On the final day of the course, the students made scientific presentations in English to describe their research accomplishments.

List of Faculty and Staff

University of Tsukuba

Kazuya Morikawa
Kiong Ho
Thomas Mayers
Yoko Matsuzawa
Ngo Thi Doan Phuong

University of Medicine and Pharmacy

Hoang Anh Vu
Bui Chi Bao
Ngo Quoc Dat
To Mai Xuan Hong
Nguyen Thi My Hien



Course Schedule
(24th Aug - 1st Sep 2016)

Time	Events	Location
24th Aug (Wed)	22:00 Group discussion and Arrival	Tsukuba/HCMC
25th Aug (Thu)	10:00 Orientation: + Students introduce themselves + A short introduction about UMP + A short introduction about University of Tsukuba	Meeting room/ CMB
	11:30 Welcome Gathering	Meeting room
	13:00 Laboratory experimentation	CMB
26th Aug (Fri)	9:00 A short introduction about Center for Molecular Biomedicine	Meeting room
	9:00 Visiting some departments in the main campus	UMP
	10:00 Laboratory experimentation	CMB
	13:00 Laboratory experimentation	CMB
27th Aug (Sat)	9:00 Lecture: Three Steps to Perfect Presentation	Meeting room
	10:00 Laboratory experimentation	CMB
	13:00 Laboratory experimentation	CMB
28th Aug (Sun)	9:00 Ho Chi Minh City tour and Group discussion	HCMC
	16:00 UMP	
29 Aug (Mon)	8:30 Biotechnology Center and Group discussion	HCMC
	17:00 UMP	
30 Aug (Tue)	9:00 Visiting the University Medical Center	HCMC
	13:30 Visiting the Blood and Transfusion Hospital	HCMC
31 Aug (Wed)	9:00 Laboratory experimentation	CMB
	13:00 Presentation preparation	Meeting room
1st Sep (Thu)	9:00 Short presentation by students	Meeting room
	12:00 Lunch Gathering	HCMC
	21:15 Departure	

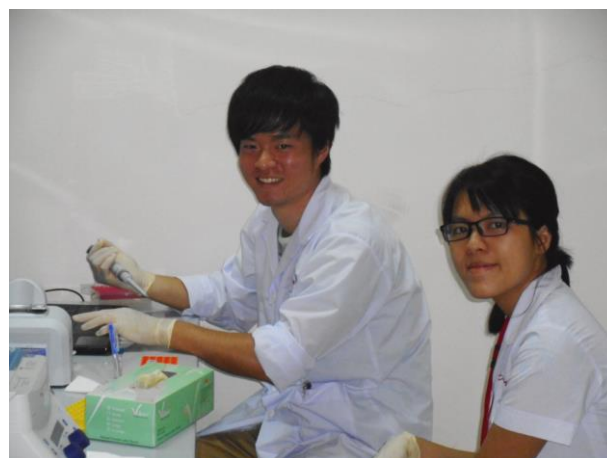
Tutor (student)	Topic	Experimental works
Mr. Nguyen The Vinh (Mr. Nguyen Tan Phuoc) (Ms. Ayano Kougo)	Topic 1: Factor 9 mutations in hemophilia B	DNA extraction from peripheral blood, PCR, electrophoresis, cycle sequencing, precipitation, sequencing analysis.
Mr. Nguyen Huynh Minh (Ms. Tran Nu Thien Nha) (Ms. Kae Shimizu)	Topic 2: RAS mutations in colorectal cancer	DNA extraction from formalin-fixed paraffin-embedded tissue, PCR, electrophoresis, cycle sequencing, precipitation, sequencing analysis.
Ms. Vu Diem My (Ms. Ly Ky Nhu) (Ms. Yukika Hamamura)	Topic 3: Role of CYP2C19 polymorphism in treatment of Helicobacter pylori-induced gastritis.	DNA extraction from peripheral blood, real time PCR
Mr. Luong Bac An (Ms. Duong Minh Hang) (Mr. Kousuke Takeuchi)	Topic 4: Genotyping and mutational analysis of Hepatitis B virus	DNA extraction from peripheral blood, PCR, electrophoresis, cycle sequencing, precipitation, sequencing analysis.
Ms. Nguyen Nhat Quynh Nhu (Mr. Khuong Dinh Khoa) (Ms. Moe Goto)	Topic 5: SMA mutation in spinal muscular atrophy	DNA extraction from peripheral blood, PCR, restriction enzyme digestion, electrophoresis, multiplex ligation-dependent probe amplification.
Mr. Vo Van Thanh Niem (Ms. Nguyen Thi Hoai Thuong) (Mr. Taisei Hozumi)	Topic 6: TGF- β signaling in invasiveness of Neuroblastoma cancer cell line	Neuroblastoma cancer cell line, migration/invasion assay, TGF- β treatment



Comments from the participants:

“At first, I was confused by the differences of language, foods, and culture of Vietnam, but by the time the training was over, I had become used to being there. I thought it was a productive training program for me. Although this was my first overseas training, it inspired me to be a researcher who is active around the world and not only in Japan. I want to continue to actively participate in such overseas programs.”

Kosuke Takeuchi



“Communication in English was essential. I had to make a pair with a Vietnamese student. Sometimes, we didn’t have the same opinion and I had to hear her opinion and share my opinion in English. Through the course it became easier for me to speak English than before.

I was able to spend really good time thanks to the Vietnamese students who always kindly helped me, whenever I asked.”

Yukika Hamamura

“In this course I was able to experience things, sights, thoughts and feelings, that I’m unable to experience in my usual life. This course strongly motivated me to think about my future career. I want to improve my communication skills more. I really appreciate the Vietnamese students, and I hope I can see them again.”

Taisei Hozumi





“Before I studied and trained in Vietnam, I had a really vague idea of working abroad as a scientist, but through this study, in which I communicated with Vietnamese students in English and did experiments together, I was able to grasp a clear vision of working abroad. So, this study abroad program was very good experience for me.”

Ayano Kougo

“These eight days were so exciting!! I learned many things in this course and from now I will try to improve myself, including English communication skill. I also think active participation in such a course where fundamental knowledge in medical science is practically applied is very important.”

Kae Shimizu



“In this program, I performed experiments to identify mutation that causes a common genetic disease in Vietnam. While the experiment is not fully developed for a diagnosis, I was fortunate to learn and perform such genetic experiments. To be able to participate in the lab activity, and be in situations where we cannot use our mother tongue, has increased my motivation towards my future goal. I’m looking forward to meeting the participants of this program again in the near future.”

Moe Goto



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