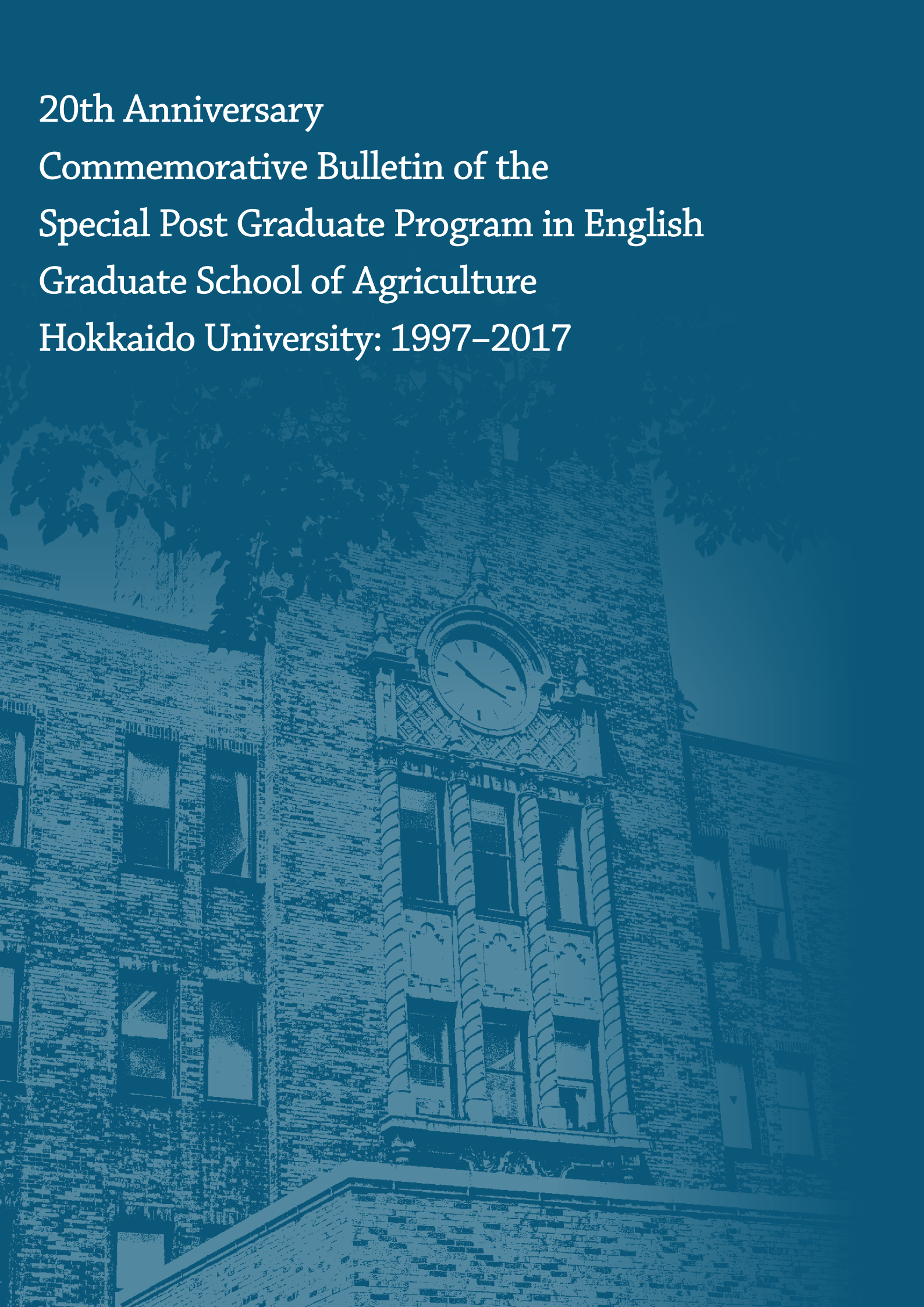
20th Anniversary Commemorative Bulletin of the Special Post Graduate Program in English Graduate School of Agriculture Hokkaido University: 1997–2017



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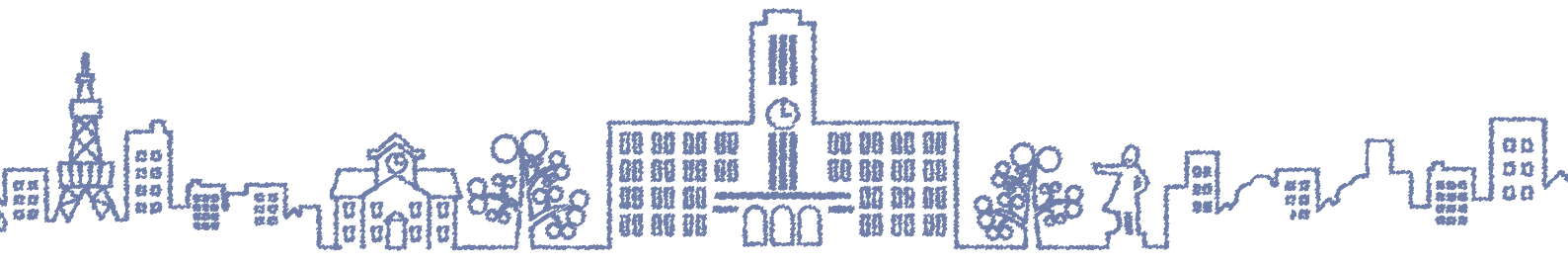

Preface for the 20th Anniversary Celebration of the Special Postgraduate Program in English for the Graduate School of Agriculture at Hokkaido University

Prof. Dr. YOKOTA Atsushi

Dean of the Graduate School of Agriculture, Hokkaido University

This year marks the 20th anniversary of the Special Postgraduate Program in English for the Graduate School of Agriculture. This program was launched as a Special Postgraduate Program in Agricultural Chemistry back in 1997 through the extraordinary efforts of the foundation and continued by Emeritus Professor Dr. Fusao Tomita and successive professors. It is our great pleasure to present a message to commemorate this momentous occasion. The history of this program over the past 20 years is summarized in the next section of this book. Here we will refer to the roles played by the special program in the globalization of education within our graduate school.

The School of Agriculture at Hokkaido University originated from Sapporo Agricultural College, which was founded in 1876 and was famous for being the first degree-granting institution in Japan. Most of the lectures at the college were given in English by teachers invited from North America. Professor Dr. Inazo Nitobe, who later became the first Under-Secretary General of the League of Nations following its establishment and was the author of *Bushido: The Soul of Japan*, was one of the second batch of graduates from the college. We are proud that our school built such an outstanding tradition in the English-oriented education system of those days. Although the present English program was established only 20 years ago, one could say it was created to revive the outstanding tradition of Sapporo Agricultural College in the modern era.

Our English program was the first of its kind to be established at Hokkaido University at the time, and has contributed significantly to not only international student education but also the globalization of Hokkaido University as a whole. The daily collaboration between international students and Japanese students in lectures and research activities has created a special atmosphere to inspire Japanese students to become international- and global-minded readers. As of September 2017, the number of

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international students to have completed the program totaled 129 for the master's program and 126 for the doctoral program. The majority of these students are those who received a scholarship from the Japanese Government (Ministry of Education, Culture, Sports, Science and Technology: MEXT). However, continued operation of the English program has induced secondary effects such as an increase in the number of international students supported by private funding. Most graduates are now active in their home countries and related countries as university professors, scientific researchers or engineers. The recent situation and unforgettable memories made during their studies in our program have been communicated by many alumni and compiled in this book. Through these contributions, we can confirm how much our English programs have contributed to the education of foreign students over the past 20 years.

The initial goal of human resource development that primarily supports education and research in neighboring Asian and ASEAN nations seems to have been steadily achieved over the past 20 years. These achievements led to the recent opening of overseas liaison offices of Hokkaido University at Bogor Agricultural University in Indonesia and Kasetsert University in Thailand. We have also recently successfully established two cotutelle programs; one with the University of Sydney in Australia and the other with the University of the Philippines Los Baños in the Philippines. In this way, we plan to further promote the globalization of education and research based on this program.

Lastly, we sincerely hope that our English program continues to develop and contribute to the education of foreign students who will be able to serve as bridges between Japan and their home countries. In this way, Hokkaido University will be recognized further by overseas countries as an ideal base for hosting international students in agricultural sciences.

A thought on the Establishment of the Special Postgraduate Program in Agricultural Chemistry at the Graduate School of Agriculture

Dr. TOMITA Fusao[*1]

It is a great pleasure to be celebrating the 20th anniversary of the establishment of the Special Postgraduate Program in Agricultural Chemistry (English Course) at the Graduate School of Agriculture.

But first, please allow me to recall why I came up with the idea of establishing the Special Postgraduate Program in English in Agricultural Chemistry at the Graduate School of Agriculture. As you know, years ago when Hokkaido University first started, all lectures were conducted in English. Students learned science in English and were confident in speaking and writing English. Thus, most graduates made very important contributions in numerous international arenas, be it thought publications or at scientific meetings.

I am very fortunate to have spent my undergraduate days during the time when some classes were taught at Hokkaido University in English. This came about as the result of faculty exchange program with the University of Massachusetts. At that time, Prof. Yukihiko Nakamura took on the role of an interpreter facilitating our understanding of the science courses offered in English. This experience not only impacted me greatly but also inspired me to find a way to study abroad. Thus, after receiving my undergraduate degree from Hokkaido University, I was able to leave Japan and pursued a graduate degree in the Graduate School of McMaster University in Hamilton, Canada. Unfortunately, after faculty exchange program with the University of Massachusetts ended, our students no longer had the opportunity to receive an English-based education.

In September 1989, I was appointed as a professor at Hokkaido University after working for 27 years in a research laboratory of chemical industry where English had been an essential and common language. Back then, there were some international students who were fluent in Japanese, but they spent a long time learning the language. I also discovered there were no courses taught in English at Hokkaido University. There were only a few universities like Osaka University that offered courses in English, but Agricultural Chemistry was not one of them. I felt Agricultural Chemistry was important because education and research were carried out done using a combination of chemistry and biology. Believing it to be a unique and creative course. I therefore devised a proposal for a new course with the help from the staff of the Department of Agricultural Chemistry, and the main office of the Hokkaido University. Fortunately, the proposed course was accepted by the Ministry of Education, Culture, Sports, and Science and Technology.

The Agricultural Chemistry course that we proposed was the first of its kind in Japan, and it was a tremendous pleasure to serve as the first head of this program. My responsibility as head was great, but it was an honor to have granted the degree to more than 100 graduates, who are now actively working in their respective countries. I am very happy to see this program has expanded its areas beyond Agricultural Chemistry into other areas in Agricultural Sciences and Technologies. I believe the course will continue develop to reach wider ranges and garner excellent results in the future.

*1 Emeritus Professor of Hokkaido University, Head of the program for first and second periods of the Special English Program.

A Bridge Between Nations

Dr. MATSUI Hirokazu[*2]

I would like to take this opportunity to express my congratulations on the 20th anniversary of the founding of the Special English Postgraduate Program in the Graduate School of Agriculture at Hokkaido University.

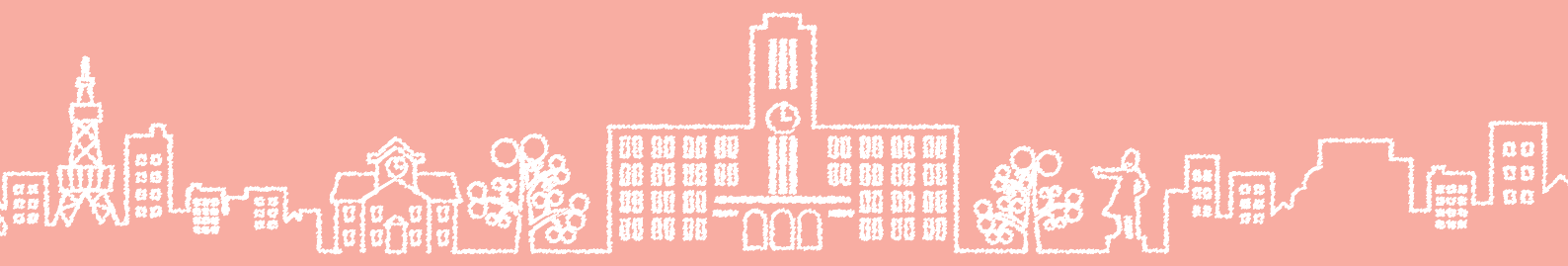
Since 1997, approximately 250 students have taken advantage of this opportunity to study in English at Hokkaido University. After completing the English program, these alumni have returned to their home countries and have been active at the forefront of various fields. I strongly believe this English Program has not only played an important role in developing global human resources but also contributed to the globalization of this university.

As you know, Hokkaido University was founded in 1876 as Sapporo Agricultural College, which was the first institution of higher education in Japan. Dr. William S. Clark, then president of Massachusetts Agricultural College, was appointed as vice president of the college and laid the foundation for a new college. "*Boys, be ambitious*" is a quote attributed to Dr. Clark that is widely known throughout Japan. Dr. Inazo Nitobe, who was in the second class of this college, also left behind a famous phrase, "*I wish to become a bridge across the Pacific.*"

Today we are facing various global issues, and the majority of them require cooperation among nations. In this respect, I believe the Special English Postgraduate Program is playing an increasingly significant role in producing excellent human resources capable of serving as a bridge between nations.

*2 Emeritus Professor of Hokkaido University, former dean of the Research Faculty of Agriculture, Graduate School of Agriculture, and School of Agriculture, and President of Sapporo-Alumni, School of Agriculture, Hokkaido University

The History of the Special English Program



Brief history of the Special Postgraduate Program in English in the Graduate School of Agriculture

Prof. Dr. IWABUCHI Kazunori

Head of the Special Postgraduate Program in Biosphere Sustainability Science

Historical aspects

The English program for international students in the Graduate School of Agriculture was established 20 years ago. On this special occasion, we would like to briefly reflect on its history.

The first version of the program, "The Special Postgraduate Program in Agricultural Chemistry," was started in October 1997 as the first English program of Hokkaido University. A total of 10 laboratories within the division of Agricultural Chemistry participated in the program. The name of the program literally represented the concept behind it because we had been focusing on education in the area of Agricultural Chemistry for students from all over the world. The second phase of this special program based on the same concept followed from October 2002 until March 2007, during which time five more laboratories joined to bring the total number of participating laboratories to 15. The third phase of the program, "The Special Postgraduate Program in Bio-systems Sustainability" started in October 2007 and was originally slated to last for five years but was extended one more year to March 2013 due to confusion caused by the Great East Japan Earthquake on March 11, 2011. As of 2011, the number of participating laboratories was 16 out of 56 laboratories in the Graduate School of Agriculture (29%). The concept of the third phase of the program was to contribute to "building a biomass-based sustainable society through interdisciplinary education and research in agricultural science," which was formerly the consensus of the Graduate School of Agriculture.

The current "Special Postgraduate Program in Biosphere Sustainability Science" is the fourth phase of the program and was established in April 2013. This program was designed to be in line with the current ideal of the Graduate School of Agriculture, which is "making contributions to sustainable human prosperity through the establishment of infrastructure for survival based on the biosphere." Under this concept, we have set the ultimate goal to be achieved by agricultural science as "establishing sustainable food production technologies that can support the population of the earth." For these to be put into practice, we have identified the following four priority research areas: basic biological science represented by biotechnology that will provide the basis for supporting all three of the other research areas of food production, the environment, and the manufacturing, distribution, and use of food products. These research areas are not independent from one another but rather are closely related because of their storylines. The issues related to sustainable production of food will be solved for the first time by combining all of these areas. This program differs from previous ones in that as many as 33 out of 56 laboratories have joined (59%, which is twice as many as that in the third phase of the program as of 2012). This dramatic increase was made possible thanks to a program concept that can accommodate various areas of agricultural science. Also crucial was the awareness of the importance of global education among the faculty members of our institute by that time, which had been gradually recognized through the achievements of previous programs in education and research in agricultural sciences.

All of these programs consisted of a master's course and a doctoral course with the allocation of five research students receiving scholarships from the Japanese Government (Ministry of Education, Culture, Sports, Science and Technology: MEXT) for each course (10 scholarship students in total) each year. Due to the nature of the program, the language to be used in all educational and research activities is English. Thus far, approximately 240 students, including personally funded students, have completed our special program, and the majority have now returned to their home countries and are working in important positions within their respective fields of expertise.

The program has been developed in four phases under the program heads listed below.

Four phases of the program

1st phase: Special Postgraduate Program in Agricultural Chemistry from Oct. 1997 to Sept. 2002
2nd phase: Special Postgraduate Program in Agricultural Chemistry from Oct. 2002 to Mar. 2007
3rd phase: Special Postgraduate Program in Bio-systems Sustainability from Apr. 2007 to Mar. 2013
4th phase: Special Postgraduate Program in Biosphere Sustainability Science from Apr. 2013 to Mar. 2018

Heads of the English program

Fusao Tomita	(Apr. 1997 to Mar. 2003)
Atsushi Yokota	(Apr. 2003 to Mar. 2012)
Mitsuru Osaki	(Apr. 2012 to Mar. 2013)
Kozo Asano	(Apr. 2013 to Dec. 2013)
Ryusuke Hatano	(Jan. 2014 to Mar. 2014)
Makoto Ubukata	(Apr. 2014 to Mar. 2016)
Kazunori Iwabuchi	(Apr. 2016 to present)

Concluding remarks

The continued operation of the English program for the past 20 years has positively contributed to the globalization of not only the Graduate School of Agriculture but also Hokkaido University. The presence of this program over such a long period of time has created an awareness among both faculty and administrative staff that it is necessary to further improve the education of international students. There is still a long way to go, but continuous efforts are underway to establish a better system.

List of Laboratories and Academic Staffs Involved in the Program

Research Area	Lab.No.	Laboratory Name	1st	2nd	3rd	4th	Professor
Food Production (12 labs.)	17	Crop Science			●		(IWAMA Kazuto)
	18	Animal Function & Nutrition (Animal Nutrition)			●	●	KOBAYASHI Yasuo
	19	Vehicle Robotics			●	●	NOGUCHI Noboru
	20	Agricultural Circulative Engineering (Crop production Engineering)			●	●	◎ IWABUCHI Kazunori SHIBATA Yoichi
	21	Applied Bioproduction Engineering			●	●	
	1	Plant Nutrition (Plant Nutritional Ecology, Rhizosphere Environment Technology, Plant Functional Biology, Plant Functions Development)	●	●	●	●	(TADANO Toshiaki, YAMAGUCHI Junichi, OSAKI Mitsuru)
	22	Agricultural and Rural Development			●	●	KONDO Takumi
	23	Environmental Biogeochemistry			●	●	
	33	Animal Breeding & Reproduction				●	○ TAKAHASHI Masashi
	34	Animal Production System				●	UEDA Koichiro
	35	Plant Breeding				●	KISHIMA Yuji
	36	Agricultural Resource Economics				●	
	37	Applied Plant Genomics				●	
Environmental Conservation (9 labs)	2	Soil Science	●	●	●	●	HATANO Ryusuke
	24	Land and Water Management (Land Improvement and Management)			●	●	INOUE Takashi
	25	Ecological and Environmental Physics (Environmental Informatics)			●	●	○ SAMESHIMA Ryoji HIRANO Takashi
	26	Soil Conservation			●	●	ISHIGURO Munehide
	38	Forest Ecosystem Management				●	NAKAMURA Futoshi
	39	Forest Policy				●	KAKIZAWA Hiroaki
	40	Terrestrial Ecosystem Modeling				●	
	27	Silviculture and Forest Ecology			●	●	KOIKE Takayoshi
	28	Earth Surface Processes and Land Management			●	●	(MARUTANI Tomomi) YAMADA Takashi
Food Science (7 labs)	3	Nutritional Biochemistry	●	●	●	●	(AOYAMA Yoritaka) HARA Hiroshi
	4	Food Biochemistry	●	●	●	●	(KASAI Takanori) KAWABATA Jun
	29	Agricultural and Food Process Engineering			●	●	(KIMURA Toshinori) KAWAMURA Shuso
	5	Applied Molecular Microbiology (Applied Microbiology, Molecular Plant-Microbe Interactions)	●	●	●	●	(TOMITA Fusao, ASANO Kozo) SONE Teruo
	11	Microbial Physiology (Gastrointestinal Microbiology, Microbial Resources and Ecology)		●	●	●	YOKOTA Atsushi
	6	Molecular Enzymology	●	●	●	●	(CHIBA Seiya) KIMURA Atsuo
	7	Biochemistry	●	●	●	●	(HONMA Mamoru, MATSUI Hirokazu) △ MORI Haruhide
Life Science (14 labs)	8	Natural Product Chemistry (Chemical Biology)	●	●	●	●	(YOSHIHARA Teruhiko, NABETA Kensuke) MATSUURA Hideyuki
	9	Molecular and Ecological Chemistry	●	●	●	●	(TAHARA Satoshi) HASHIDOKO Yasuyuki
	12	Wood Chemistry and Chemical Biology		●	●	●	(UBUKATA Makoto)
	13	Forest Chemistry		●	●	●	URAKI Yasumitsu
	10	Molecular Biology	●	●	●	●	NAITO Satoshi
	14	Applied Molecular Entomology		●	●	●	BANDO Hisanori
	15	Pathogen-Plant Interactions		●	●	●	(UYEDA Ichiro) MASUTA Chikara
	16	Rhizosphere Control			●	●	
	30	Ecochemical Analysis			●	●	
	31	Molecular Environmental Microbiology			●	●	TAMURA Tomohiro YUMOTO Isao KAMAGATA Yoichi
	41	Entomology				●	OHARA Masahiro
	42	Systematic Entomology				●	AKIMOTO Shin-ichi
	43	Genome-enabled Biochemistry				●	
	32	Animal Ecology			●	●	ARAKI Hitoshi
Total number of laboratories in each period			**10**	**15**	**32**	**42**	

1st period : 1997.10.–2002.9. 2nd : 2002.10.–2007.3. 3rd : 2007.4.–2013.3. 4th : 2013.4.–2018.3
◎ : Head of the program △ : Program Advisor ○ : Vice head of the program ( ) : Privious Lab. Name or Academic Staffs formerly involved in the program

Associate Professor	Lecturer	Assistant Professor
	(KASHIWAGI Junichi, JITSUYAMA Yutaka)	
KOIKE Satoshi		SUZUKI Yutaka
OKAMOTO Hiroshi		
(KATAOKA Takashi) SHIMIZU Naoto		
ISHII Kazunobu		
(SHINANO Takuro, YAMAGUCHI Masumi, EZAWA Tatsuhiro) WATANABE Toshihiro		
AIZAKI Hideo		
UCHIDA Yoshitaka		
KAWAHARA Manabu		BAI Hanako
	TAKAMURE Itsuro	KOIDE Yohei
	SAITO Yoko	
		MARIA STEFANIE DWIYANTI
NAKAHARA Osamu	KURAMOCHI Kanta	
TANI Hiroshi	YAMAMOTO Tadao	
	OKADA Keiji YAMADA Hiroyuki	
	KASHIWAGI Jun-ichi	
MORIMOTO Junko		
SHOJI Yasushi		
		KATO Tomomichi
SHIBUYA Masato	SAITO Hideyuki	
KASAI Mio		KATSURA Shin'ya
ISHIZUKA Satoshi	HIRA Tohru	
(SONOYAMA Kei)	KATO Eisuke	
○ KOSEKI Shigenobu		
		(SUTO Manabu, SAKURAI Takako, TANAKA Michiko)
WADA Masaru	FUKIYA Satoru	(I. N. Sujaya)
(MORI Haruhide)	OKUYAMA Masayuki	TAGAMI Takayoshi
(ITO Hiroyuki)		(HIRAGA Susumu, WATANABE Kenji, HAMADA Shigeki) SABURI Wataru
(OIKAWA Hideaki)	TAKAHASHI Kosaku	(TOSHIMA Hiroaki)
○ HASHIMOTO Makoto	(FUKUSHI Yukiharu) SAKIHAMA Yasuko	
(URAKI Yasumitsu)	SHIGETOMI Kengo	(KISHIMOTO Takao)
	KODA Keiichi	
(ISHIKAWA Masayuki) ONOUCHI Hitoshi		(NAMBARA Eiji, TAKANO Junpei) YAMASHITA Yui
ASANO Shin-ichiro	(SAHARA Ken)	SATO Masanao
	(HATAYA Tatsuji) NAKAHARA Kenji	
EZAWA Tatsuhiro		
○ FUKUSHI Yukiharu		
MORITA Naoki KITAGAWA Wataru KIKUCHI Yoshitomo KATO Souichiro		
YOSHIZAWA Kazunori		
		TAKASUKA Taichi

List of Student Affairs Staff and Laboratory Administrators, and Technical Officers of the Program

	1st (1997～2001)	2nd (2002～2006)	3rd (2007～2012)	4th (2013～2017)
Department of Student Affairs	I. Kuhara E. Fujita Y. Goto A. Kawaguchi T. Murakami T. Hachinohe Y. Kudo Y. Matsubara S. Suzuki M. Miyamoto T. Hatai	S. Suzuki M. Mitsuhashi T. Hatai T. Yokomatu T. Murakami M. Hata J. Sasaki H. Miyauchi	M. Miyamoto S. Abe H. Miyauchi I. Sato M. Kimihira K. Murakami Y. Ishikawa T. Kitano H. Omote S. Nagatsu M. Hasegawa R. Kataishi M. Kinoshita O. Nuka Y. Tashiro S. Kubota T. Terui	K. Tarumi R. Kataishi I. Sato M. Nishimura T. Azumano M. Kinoshita A. Igarashi Y. Tashiro H. Shimojo K. Takekuma T. Sakaguchi H. Imada H. Miyauchi Y. Anzai R. Toyoshima S. Kumahara L. Huang S. Saito K. Hirayama
Administrators	M. Chiba H. Momono K. Oishi S. Kawamura K. momoi S. Takayama N. Yano H. Irino C. Uematsu S. Abe K. Fujiwara T. Nakamura	M. Chiba H. Momono K. Oishi M. Hasegawa M. Yamada A. Ichihara N. Yano H. Irino K. Shikato M. Kirikae K. Harada A. Kosugi M. Yamamoto A. Kataoka S. Fujisawa M. Ohara A. Kurihara M. Miura Y. Otaka M. Kawasaki K. Fujiwara K. Ebinuma A. Kikuchi H. Shirai Y. Tokiwano Y. Tokiwano S. Nagatsu S. Mori	H. Shirai K. Harada N. Yano M. Kawasaki M. Hasegawa A. Kataoka Y. Otaka A. Mori K. Fujiwara M. Kiji K. Hotaka Y. Sato S. Asano N. Konno A. Nishino A. Kamada Y. Mitsutani M. Sato M. Fujimoto K. Saito S. Kim K. Hirayama M. Kaneta A. Nakata Y. Nakamura E. Namiki A. Doi M. Mori R. Noguchi F. Ito A. Kurihara M. Wakayama A. Hayashi Y. Okamura A. Kriss M. Hayama T. Hisano K. Nagami	K. Hirayama A. Kriss S. Yamazaki M. Kaneta I. Nakano K. Nagami T. Hisano E. Namiki M. Mori T. Namikawa A. Sawa C. Okumura S. Sato A. Fujimura N. Moritaki M. Takahashi Y. Kosugi Y. Mizunuma M. Yoshida N. Nomura T. Higashino Y. Iwatani K. Ishikawa K. Harada T. Abe Y. Ichikawa A. Tanaka M. Azumi S. Ishiyama M. Sasaki C. Shishido A. Nakata Y. Nakamura A. Nishikawa H. Kaneko Y. Yamada Y. Miura N. Tokuhashi M. Aoki A. Tanaka M. Yamanouchi Y. Takeshita M. Numamae
Technical Officer	A. Abe M. Urayama	A. Abe M. Urayama	A. Abe M. Urayama M. Ohara	A. Abe

The old classroom of entomology and sericulture science (May 17, 2003); photo by Prof. Dr. YOKOTA Atsushi
Photo data: Nikon F2, Nikkor-S.C Auto 50 mm f/1.4, Sensia 100

Old library, Faculty of Agriculture (November 6, 2010); photo by Prof. Dr. YOKOTA Atsushi
Photo data: Nikon F2, Distagon T* 25 mm f/2.8, Provia 100F

Letters from Alumni

Letters from Alumni

For the 20th Anniversary Celebration of the Special (English) Postgraduate Program at the Faculty of Agriculture, Hokkaido University

Peter Kurdi

Graduated in 2000 (DC), Hungary

Me in the lab (2017)

My name is Peter Kurdi and I am from Hungary. I graduated from the Laboratory of Microbial Resources and Ecology in 2000. Currently I am working as a researcher at the Food Biotechnology Laboratory of the National Center for Genetic Engineering and Biotechnology in Bangkok, Thailand, which has been my workplace since arriving in Thailand in 2004.

I enrolled in the Faculty of Agriculture's Special Postgraduate Program during its inaugural year (1997). Hailing from Hungary, I was exceptionally lucky to enter what was at the time an unheard of Program. Being one of the first students in this Program and one of just a handful of foreigners at Hokkaido University was a special and unique experience. It was also a special situation because the Program itself was new within the Faculty and the University, as well as among one of the first in Japan. The rest, as the saying goes, is history. The Program, showing continuing success, has now reached its 20th anniversary.

It is time to celebrate our mutual success! Congratulations to all alumni and to the organization that created and still expertly manages the Program! I personally believe that I was guided by an excellent scientific advisory duo during my studies at Hokkaido University: Professor Dr. Fuso Tomita (supervisor) and Associate Professor Dr. Atsushi Yokota (advisor). My study focused on lactic acid bacteria (which remained my main interest), and at the end of my third year in the PhD program we managed to publish our work in the Journal of Bacteriology. I not only received knowledge from my professors but also self-confidence, perspective and inspiration. I will always remember the time I spent at Hokkaido University as one of the best periods of my life. At the time, I felt it was sheer luck that I ended up studying at the Faculty of Agriculture, Hokkaido University, and now I am a proud member of its alumni.

Finally, I would like to tell you that I am profoundly thankful for the life-changing knowledge and experience I gained here, in Sapporo, while studying in the Special Postgraduate Program.

Mirasol Pampolino

Graduated in 2000 (DC), Philippines

Mirasol Pampolino graduated with a PhD from the English Course program of the Laboratory of Soil Science at Hokkaido University in September 2000. After graduation, Mirasol returned to the Philippines to continue her work at the International Rice Research Institute (IRRI) where she served in different capacities conducting research studies related to soil science and plant nutrition. In 2008, Mirasol joined the Southeast Asia Program of the International Plant Nutrition Institute(IPNI) as an Agronomist and became the Deputy Director in 2016(http://seap.ipni.net). At IPNI, she has been instrumental in the development of Nutrient Expert®, a decision support tool that helps crop advisers rapidly develop fertilizer recommendations for specific crops(e.g., maize, wheat, rice, soybeans) and specific fields or growing environments. In the last eight years, 13 versions of Nutrient Expert have been developed and calibrated in farmers' fields in 11 countries in Asia and Africa (http://software.ipni.net/article/nutrient-expert). At present, Mirasol's office is in the Philippines.

Prior to entering the PhD program, Mirasol had primarily focused on lowland rice, but during her PhD studies, she was exposed to upland crops such as maize and onions, for which she investigated nutrient availability and dynamics in the [field grown to those crops / fields where these crops were grown?]. Through this program, she learned how to conduct research and publish scientific papers. She remembers with deep gratitude her professor who provided excellent guidance and her colleagues in the Laboratory of Soil Science who helped her with field research. She greatly benefited from the team spirit of the students, especially the Japanese students. She also received much encouragement from her colleagues through their friendship and for being such nice hosts to a foreign student like her. It still amazes her every time she remembers the warm care and support given to her by all the members of her laboratory, especially during her initial days in Japan. Settling down in a foreign land was easy for her because of their hospitality.

Picture 01: Mirasol Pampolino (fourth from the right) together with her group in the Philippines and a colleague from Morocco. (Photo credits: IPNI SEAP)

Picture 02: Mirasol Pampolino (seated first from the left) together with her colleagues at the Malaysia office of the IPNI Southeast Asia Program. (Photo credits: Ms. Sandra Leng)

Letters from Alumni

Hu Ronggui

Hu Ronggui

Graduated in 2001 (DC), China

Prof. Dr. Hu Ronggui:
College of Resources and Environment, Huazhong Agricultural University, Wuhan, P.R China 430070
Phone: +86-27-87282152
Email: rghu@mail.hzau.edu.cn

Graduated from the Laboratory of Soil Science in 2001 under the supervision of Prof. Hatano Ryusuke. Since 2002, Dr. Hu has worked as a professor at Huazhong Agricultural University in China.

During his stay in Hokkaido, Dr. Hu was deeply impressed by the beautiful scenery and white snowy winters, as well as the pure, warm-hearted people. The people there helped him complete his scientific studies and led him to enter a vast world of knowledge and love. Since then, Dr. Hu has worked with his students with a warm heart and love. In recent years, he has made progress in his work on the soil nitrogen cycle and the regulation of environmental pollution.

Letters from Alumni

The Starting Point of My Life Journey and Scientific Odyssey

Md. Tofazzal Islam

Graduated in 2002 (DC), Bangladesh

September 30, 1997 was truly a turning point in my journey of unknowns. I arrived in Japan and was warmly received by my supervisor, Prof. Dr. Satoshi Tahara, at Chitose International Airport in Sapporo. Considering that Hokkaido University was considered the historical first higher seat of learning in agriculture, I first wrote to Prof. Mizutani in 1994 and showed my keen interest in pursuing my PhD in agriculture under his supervision. I received a reply from his Associate Professor, Dr. Tahara, and was told that Prof. Mizutani could not accept any foreign students as he had become the Dean of the Graduate School of Agriculture. Interestingly, when I wrote another letter just three years later, I received an encouraging letter from Prof. Tahara. He explained the new Special English Course, which sounded promising for me. Under the guidance of Prof. Tahara, I ap-

Academy Gold Medal Award - Bangladesh Academy of Sciences (BAS)

plied for the Monbukagakusho scholarship and was selected to start my MS in Agricultural Chemistry as a first batch student of the Special Course coordinated by Prof. Fusao Tomita. Time flies. Two decades have now passed since the historic start of the Special English course, which has provided many international students with the opportunity to pursue higher studies at the Graduate School of Agriculture of Hokkaido University. I am excited to share a glimpse of the scientific odyssey I began twenty years ago at Hokkaido University.

I went to Hokkaido University with the dream of becoming a competent researcher through an MS leading to PhD research under the supervision of Prof. Satoshi Tahara. I was extremely lucky to be a student of the special course in which ten students from countries such as Bangladesh, Australia, Belgium, Thailand, and South Korea were enrolled. Under the extraordinary guidance of Prof. Satoshi Tahara, I shed light on cell biology and molecular cross-talks of *Aphanomyces cochlioides* with host and nonhost plants. We published 13 research articles from a series of my studies related to the ecological chemistry of phytopathogenic *A. cochlioides* zoospores. In recognition of this, I won the best young researcher award from the JSBBA Hokkaido Region. I gratefully acknowledge the fantastic collaboration of Mr. Toshiaki Ito for the SEM and TEM studies required for my research. After receiving my PhD, I came home and was promoted to the position of Associate Professor. Six months later, I was awarded a fellowship from the Japan Society for the Promotion of Science (JSPS) to work in the same laboratory at Hokkaido University. My post-doctoral study on signaling systems in the rhizosphere and their usage in agriculture helped us to discover novel functions and the molecular mechanism of a rhizoplane bacterium *Lysobacter* sp. that inhibits motility of *A. cochlioides* zoospores and suppresses damping-off diseases in spinach and sugar beets. My stay in the laboratory of ecological chemistry was extremely rewarding not only because I was able to publish a large number of publications in high-ranked international journals but also because of my exciting experiences with social and cultural activities in Sapporo. The Special Course gave me the opportunity to make friends from various nations. My wife also completed her PhD under the same program. My son Tahsin Islam Sakif enjoyed Japanese Hoikuen from the age of nine months and had completed grade one by the time we returned home. Over the years, I learned how to work hard at solving any research question with great enthusiasm and curiosity. When I came home after seven years in Sapporo, I realized that I have changed in many ways in comparison with my colleagues. I never leave any stone unturned when it comes to utilizing my skills, knowledge and attitude to make meaningful changes in our society.

In 2007, I was awarded the Alexander von Humboldt fellowship to work with Prof. Andreas von Tiedemann at Georg-August-Universitaet Goettingen in Germany. We worked on chemotaxis and signal transduction pathways of motility of an obligate biotrophic pathogen, *Plasmopara viticola,* which causes devastating downy mildew disease in grapevine. We discovered a new protocol and clarified why *P. viticola* is recalcitrant to cultivation in the laboratory in a host-free system. Using this novel method and extending my collaboration with a giant natural

product chemist, Prof. Hartmut Laastch, we discovered dozens of novel antibiotics from *Streptomyces* species that have high potential to control downy mildew disease. The skills, knowledge and experiences I earned during my stay in Sapporo were a big asset for me in my journey of unknowns in downy mildew research at Goettingen. We published dozens of high-quality research articles. After returning home with new skills and experiences, I faced serious challenges in establishing a research laboratory at Bangladesh Open University to continue my research. To develop a "dream team" and continue on my journey of unknowns, I moved to Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU) in July 2010 as a Professor of Biotechnology and took on the challenge of establishing laboratories and launching MS and PhD programs. Over the past seven years, we have established laboratories with excellent facilities for advanced research and launched MS and PhD programs in Biotechnology. To extend my network in the UK, I visited the University of Nottingham in 2013 as a Commonwealth Academic Staff Fellow and worked with Prof. Michele Clarke on the impact of climate change on microbial diversity in the Sundarbans.

Traveling around the world, I have met numerous scholars who have become collaborators in my current mission of addressing the new challenges in agriculture and food security of Bangladesh. One fantastic example was the rapid discovery of genetic identity and the origin of the causal organism of the recent wheat blast epidemic in eight districts of Bangladesh by using novel field pathogenomics and open data sharing approaches (Islam *et al.* 2016, *BMC Biology* **14**: 84). Fortunately, I was able to engage 31 researchers from four continents to make the swift conclusion that the wheat blast in Bangladesh was caused by a South American lineage of *Magnaporthe oryzae*. Wheat blast is a fearsome disease that has been posing a serious threat to wheat production across three million hectares in South America. In February 2016, it emerged in Bangladesh for the first time outside South America and devastated 15,000 hectares of wheat with crop loss up to 100%. My current mission is to mitigate wheat blast disease in Bangladesh and Asia by engaging the global scientific community and applying state-of-the-art techniques such as genome editing. Currently, several world-famous blast researchers like Prof. Sophien Kamoun and Prof. Nicolas Talbot (UK), Prof. Yukio Tosa (Kobe, Japan), Prof. Daniel Croll (Switzerland) and Prof. Andreas von Tiedemann (Germany) are collaborating with us on the mitigation of wheat blast. We share the findings of our work through a dedicated Open Wheat Blast website (wheatblast.net) for engaging the global scientific community.

In recognition of my work, I have received many prizes and medals including the Bangladesh Academy of Science Gold Medal & Award 2014 in Biological Sciences, the Food & Agriculture Award 2011 from Oxfam and GROW, University Grants Commission of Bangladesh Awards (2004 and 2008), and the JSBBA Best Young Scientist Award 2003. All of my collaborators, students and mentors deserve special thanks for making my journey very successful and enjoyable. I am highly indebted to my supervisor, teachers, and coordinators of the Special English course for making me who I am today in my field of research. Sapporo was truly the birth place of my fascinating scientific jour-

ney, which is something I will never forget.

I now have 30 members on my research team comprised of four faculty members, postdocs and graduate students (www.btlbsmrau.org). My current research foci include plant probiotic bacteria as biofertilizers and biopesticides, the development of blast-resistant wheat by genome editing and the understanding of molecular cross-talks between plant and probiotic bacteria. I always advocate open science and open data sharing for the rapid resolution of new challenges through global scientific collaboration. Recently, the syndicate of BSMRAU has approved the Ordinance of establishing the Institute of Biotechnology and Genetic Engineering (IBGE) by upgrading the Department of Biotechnology. I will need further international collaboration to establish IBGE as a center of excellence in future.

(Head, Department of Biotechnology, Bangabandhu Sheikh Mujibur Rahman Agricultural University Gazipur-1706, Bangladesh, e-mail: tofazzalislam@yahoo.com)

Letters from Alumni

Krishna P. Woli

Graduated in 2003 (DC), Nepal

Recently, I was delighted to learn that the Hokkaido University Graduate School of Agriculture Special English Program is celebrating its 20th anniversary. I was one of those fortunate enough to be selected for this program during its inaugural year in 1998, and was awarded a scholarship to pursue a Master's degree by the Japanese government MONBUSHO. I was the only student from Nepal in that program, and was enrolled in the Laboratory of Soil Science, Graduate School of Agriculture. If there was no Special English Program, I would not have been able to pursue the course during a short, two-year in-service leave initially granted by my employer, the National Trust for Nature Conservation.

After successfully finishing the two-year course for my Master's degree, I was granted the same scholarship to continue my education to obtain a Ph.D. from the same program. In September 2003, I earned a Ph.D. in Environmental Resources, and returned to Nepal to resume my previous job. Since my job was related to environmental conservation and I had to accept the post of administrative/program head

after a promotion, I was unable to implement the technical knowledge I gained during my study in Japan. However, I was keenly interested in continuing my research. Therefore, I decided to quit my permanent job and again joined Hokkaido University as a postdoctoral research associate in the same laboratory.

During my postdoctoral research period from 2004 to 2006, I presented papers at national and international seminars and had the opportunity to meet scientists from around the world. One individual was Prof. Mark B. David from the University of Illinois, U.S.A., who offered me a position as a postdoctoral researcher in his lab at the Department of Natural Resources and Environmental Sciences. After three years of scientific study at the University of Illinois, I moved to the Department of Agronomy at Iowa State University in the same capacity, spending a total of six years as a postdoctoral research fellow in the U.S.A. Analyzing data from completed field research projects, preparing manuscripts, and publishing in peer-reviewed international scientific journals were my major tasks. I was able to successfully publish 18 papers in U.S. scientific journals.

Due to family circumstances, I had to quit my job at the university in the U.S.A. in 2014 and return to Nepal. However, there were still some project data the university wanted me to get published. Now back with my family in my own country, I have continued on with academic collaborations via an international contract position at the Iowa State University for the first two years and recently at the University of Nebraska. I feel all credit for my success should go to the Special English Program of Hokkaido University. The program provided me with an opportunity to not only obtain higher degrees but also develop valuable life-skills such as learning hospitality, dignity, hard-work, perfectionism, and professionalism.

I had a wonderful time at Hokkaido University in Sapporo, receiving memorable support from my supervisor Prof. Ryusuke Hatano, administrative staff, and colleagues in the Soil Science Laboratory. One of my unforgettable moments is related to learning the Japanese language. Because of the Special English Program, I could attend English lectures delivered by Japanese professors and some native English speakers. As such, learning Japanese was not mandatory. However, in the first National Conference of the

Society of Soil Science and Plant Nutrition I attended, I noticed the audience was not very interested when I presented my research in English, and received very few questions during the question-and-answer session. Therefore, I committed myself to presenting a seminar in Japanese the following year. Although I tried to take Japanese language classes at the International Student Center, I was unable to finish all proficiency levels due to the pressure of conducting field research. The great effort I put into self-study did allow me to present a seminar in Japanese at the national seminar within two years of my stay in Japan. I received a much greater response from the audience and the question-and-answer session was far more effective. I can still speak Japanese fluently, enjoy Japanese food, and very much respect the Japanese culture and the Japanese people for their honesty, hard work ethic, and warm hospitality.

(Krishna P. Woli, Ph.D. Kathmandu Metropolitan City-14, Ravi Bhawan, Nepal krishnawoli@hotmail.com)

Letters from Alumni

A Life-Lasting Experience

Folkert van Werven

Graduated in 2003 (MC), Netherlands

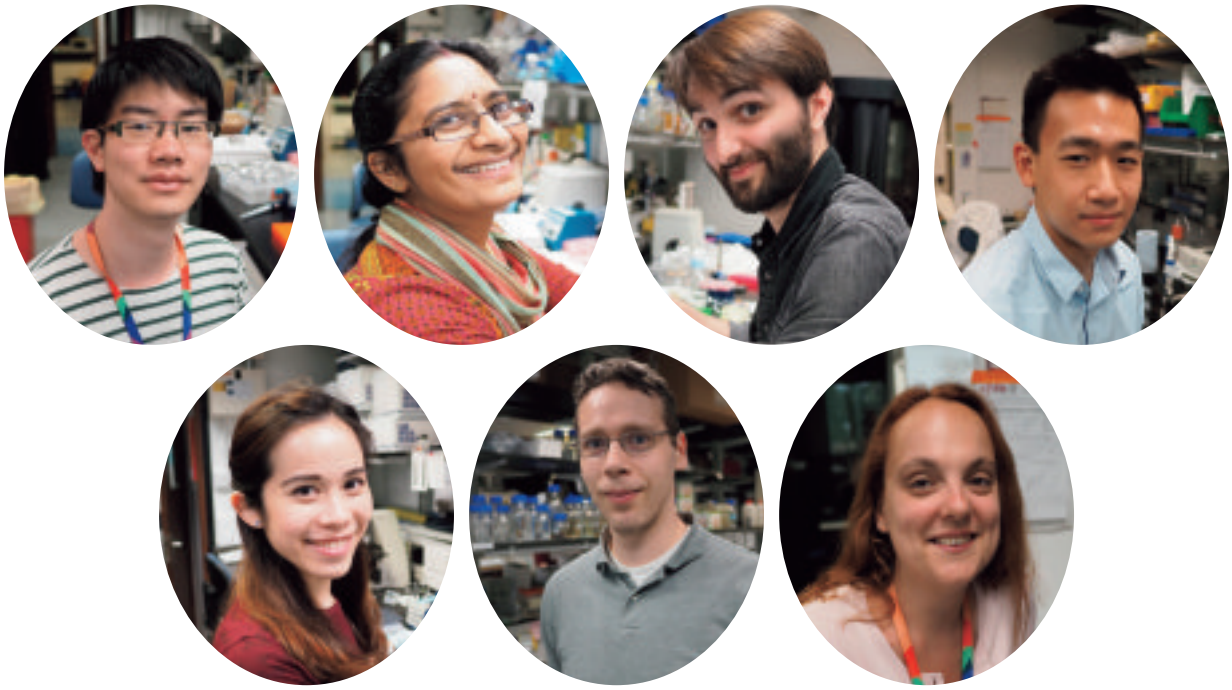
The international or English program for master's and doctoral course students organized by the Graduate School of Agriculture of Hokkaido University has had an important influence on my career and personal life. Here I will summarize my experience with the program, my subsequent career, and outline why the program should be continued.

In 2001, I was recruited by the laboratory of Professor Satoshi Naito and joined the Graduate School of Agriculture of Hokkaido University as a master's student. I had two main reasons for joining the program. First, I was looking for a high-quality research program in molecular biology. Second, I was looking for a unique experience outside my home country of the Netherlands. The program offered by the Graduate School of Agriculture was a perfect match. In the two years I spent at Hokkaido University I not only received high-quality, intensive training in scientific research but also learned about a new culture, language, and tradition. On the whole, it was a life-lasting experience. In 2003, I graduated with a master's degree in applied bioscience.

After completing the program I was able to find a suitable graduate research program in the Netherlands. In 2009, I obtained my PhD in biochemistry, and went on to do postdoctoral research at the Massachusetts Institute of Technology in the United States. Currently, I run my own research group at the Francis Crick Institute in London, United Kingdom. It is worth noting that my experiences in the master's program at Hokkaido University shaped my research career choices, and without it my career may have been quite different.

I hope the Graduate School of Agriculture of Hokkaido University is able to obtain the funds to continue this program. At the time, I was one of the few European students that joined the program. I would encourage the organizers to recruit a mixture of students from different nationalities including European countries. I strongly believe that the special course provides an excellent opportunity to train future generations of researchers, as well as facilitates the understanding of different cultures, languages and traditions. I wish the organizers of the new English program the best of luck for the future.

(The Francis Crick Institute, 1 Midland Road, NW1 1AT London, UK)



Folkert van Werven

Letters from Alumni

Lulie Melling

Graduated in 2005 (DC), Malaysia

In 2005, Lulie Melling graduated from the Soil Science Laboratory of the Research Faculty of Agriculture of Hokkaido University and has continued to research and develop the science and understanding of Tropical Peatlands in both Malaysia and Indonesia.

Under the mentorship of Professor Ryusuke Hatano, which also led to strong research collaborations with Hokkaido University, and

Lulie Melling, PhD

together with the support of the Sarawak State Government, Dr Lulie was able to set up the Tropical Peat Research Laboratory (TPRL) in 2008.

In 2010, TPRL moved into a renovated building where she successfully established an Eddy Covariance Tower for carbon balance study at three field sites.

Due to the demand for peat soil research and the growing size of the Laboratory and its supporting staff, TPRL required a larger and better facility. In 2015, the Sarawak State Government, having recognised the effectiveness of the contributions of the Laboratory on peat research, provided TPRL with a new Research Complex.

In November 2016, the Tropical Peat Research Laboratory was upgraded to Sarawak Tropical Peat Research Institute (TROPI) by the Sarawak State Government. This was done to allow TROPI to create a better platform for International Research Collaboration.

Dr Lulie has organised an international conference, seminars and workshops to update academia and stakeholders on the latest findings and promote understanding of tropical peatland. The application of these research results has managed to save Sarawak by preventing the occurrence of peat fires during the 2015 El Nino.

In addition, Dr Lulie is one of the founders of the Malaysian Peat Society (MPS) and is currently serving as President for the period from 2017 to 2019. Through MPS, Dr Lulie won the bid to host the 15th International Peat Congress (IPC). The 15th IPC 2016 held in Sarawak was the first to be organised in Asia. It also proved to be the biggest and most successful IPC held to date.

Throughout Dr Lulie's career, she has been guided by lessons learnt during her time at Hokkaido University. Hokkaido University gave her the courage to explore, taught her the flexibility of ideas and instilled in her the work ethic and respect for which Japan is famous. The friendship and support provided by the team at Hokkaido University and its alumni has allowed Dr Lulie and her team at TROPI to lead and excel in Tropical Peat research and create opportunities for younger generations.

Through the work of TROPI, Dr Lulie has succeeded in sending our young researchers to pursue their Master's and PhD degrees at Hokkaido University and various universities throughout Japan and the USA. Dr Lulie's efforts and desire to provide opportunities for younger generations to succeed has also led to her being awarded the Most Inspiring Woman Award in 2012.

Recently, she was honoured by being appointed as an Ambassador for Hokkaido University in Japan.

Letters from Alumni

Achmad Dinoto

Graduated in 2006 (DC), Indonesia

When I was a senior high school student in Jakarta, Indonesia, I had a dream to study abroad. My dream came true when I received my letter of acceptance to be a student at Hokkaido University in Japan! It was a great chance for me to attend a postgraduate course for five years in the Research Faculty of Agriculture; that is, the Special Postgraduate Program in Agricultural Chemistry. This program is an English-based course where all students come from many countries around the world, thus creating an international atmosphere with different working styles and cultures on the campus.

I entered the Master's course (2001–2003) and conducted experiments on the synbiotic impact of intestinal microbiota using an animal model. I continued this study in the Doctoral course (2003–2006) of the same program under the supervision of Prof. Dr. Atsushi Yokota and the support of Dr. Satoru Fukiya. Through this study, a high-throughput FISH-flow cytometry technigue was developed to monitor several species of intestinal bacteria for a wide variety of fecal samples. The research findings of *Bifidobacterium* proliferation in the gut by raffinose intake were succesfully published in the high-impact peer-reviewed journal, *Applied and Environmental Microbiology*. I enjoyed my daily life on campus by attending special lectures, conducting experiments, reviewing articles, reporting research progress, and participating in seminars. Actually, these academic activities are very common for students at the university. Of course, there were several memorable events during my time at the university. Two special events I still remember are when my former professor asked me to attend a seminar in Sapporo about research collaboration between Japan and Indonesia, and then continued to an informal party with

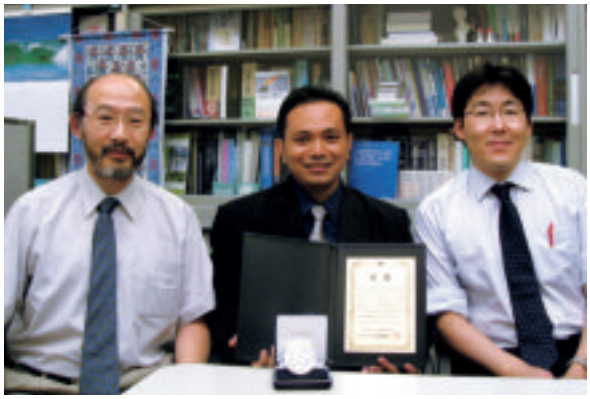


Photo 1: Receiving the Student Award from JSBBA-Hokkaido 2007: Prof. Dr. Atsushi Yokota, Dr. Achmad Dinoto, Dr. Satoru Fukiya (left to right).

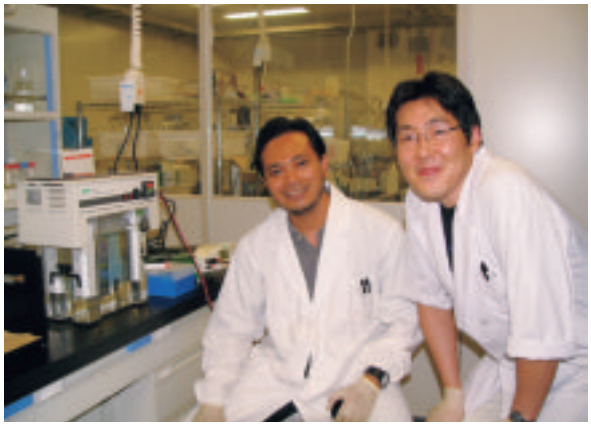


Photo 2: Working with Dr. Satoru Fukiya in the laboratory during my doctoral studies at Hokkaido University.

Photo 3: Working in the RCB-LIPI (Indonesia) Laboratory – "Touching a ruminal sample"

several guests representing Japanese government agencies. Most discussions at this party were about research funding and strategies for facilitating potential international collaboration in the future. It seems my professor's intent was for me to learn how to establish international networks. On another occassion, I was asked to join a meeting about a research grant application. It is extremely rare for a student to have the chance to learn how to get research grants and develop managerial skills, and luckily I was given this chance.

Time went by quickly until the time came to go back to my country, Indonesia. Just a few years after returning to my office, I received an official task as the Project Manager for several international projects supported by the Japan International Cooperation Agency (JICA). In 2008, I organized the CMBRC JICA project related to the improvement of capacity building for conservation and sustainable utilization of biodiversity. In 2011, I was promoted to Head of the Microbiology Division at the LIPI Research Center for Biology (RCB-LIPI: biologi.lipi.go.id), the government institute associated with biological diversity research and policy. I was responsible for coordinating fifty researchers with various multidiciplinary studies, including the group for microbial biochemistry, microbial genetics, microbial ecology and physiology, microbial systematics, and microbial bioprospecting. During that period, the RCB-LIPI was engaged in "The Project of Internationally Standardized Microbial Resource Center to Promote Life Science Research and Biotechnology (2011-2016)" in collaboration with Japanese (NITE-BRC, Tokyo University, RIKEN) and Indonesian (LIPI, UGM, UI, others) researchers under the Science and Technology Research Partnership for Sustainable Development (SATREPS) program. One of the project's goals was to establish the Indonesia Culture Collection (InaCC) in 2014, which would become the first national depository of microorganisms in Indonesia in accordance with international standards. I had the honor of being the first Head of InaCC until 2016. I am thrilled to

Photo 4: Group photo with members of the Asian Consortium for the Conservation and Sustainable Use of Microbial Resources (ACM) in front of the office, *Indonesian Culture Collection* (InaCC), LIPI-RCB, Indonesia (September 2014).

have connected with several researchers and had the chance to strengthen networking with many local and international institutions. As a researcher, I am still conducting research on gut microbiology at the Laboratory of Microbial Industry and periodically holding classes for teaching research management at the LIPI Center for Education and Development.

Put simply, I can emphasize that my career today is strongly supported by the scientific and management capabilities I obtained during my university life. Through my studies at Hokkaido University, I not only learned about the subject of microbiology but also about research strategies, communication skills, networking development, and effective ways to work. I could not have expected previously that these would be beneficial for my career today.

I truly hope that Hokkaido University will be even more successful in the future.
"*Boys, be ambitious*!"

Letters from Alumni

Liyuan Li

Graduated in 2007 (DC), China

I was so happy to hear that the special English program of the Graduate School of Agriculture at Hokkaido University is celebrating its 20th anniversary. I am thankful to Professor Atsushi Yokota for giving me the chance to express my deep appreciation for our special English program, and would like to extend my heartiest congratulations on its 20th anniversary!

I am Liyuan Li, an alumnus of the special English program, and Professor Atsushi Yokota was my mentor. My Ph.D. study was "Analysis of the mechanism of enhanced glucose metabolism in an H^+-ATPase-defective mutant of Corynebacterium glutamicum ATCC14067 by comparative proteomic approach." During my five years of study in Professor Yokota's laboratory, I published two first-author papers in PROTEOMICS and deposited the dataset to the public repository PRIDE and the World-2DPAGE portal. I

Liyuan Li, Ph.D.

was awarded a Ph.D. degree in 2007, after which I came to the USA. Time has flown. It has been 10 years since I graduated from Hokkaido Uni-

versity. Although my career and lifestyle have changed greatly over that time, my study experience in Japan has remained a priceless treasure of my life. Whether it was while working as a postdoctoral trainee to study breast cancer and eye disease at the University of Tennessee, or at present as a senior research technologist at St. Jude Children's Research Hospital focusing on liver cancer research, I have always felt grateful to Professor Yokota and the special English program. I am especially thankful because after postdoctoral training I was able to find work at St. Jude Children's Research Hospital, which has made FORTUNE's "100 Best Companies to Work For" list for the fifth straight year, and has been ranked as the #1 Hospital for Pediatric Cancer in the USA in 2017 by U.S. News & World Report. As you may know, I studied Microbial Physiology in Japan, but have worked in totally different research fields since graduation and quickly became competent in these new fields. Throughout the years, I've greatly benefited from my study in the special English program. First, my English improved drastically, which gave me a base for living my life in the USA. Second, the bioscience knowledge I learned fostered my current medical research. Lastly, I became accustomed to a rigorous research attitude, hard work and sharp thinking, which gave me the freedom to work in all different kinds of research fields. I still remember how hard I studied in Japan. For example, I worked through the night on the last day I was in Japan because Professor Yokota had instilled such diligence in me. Life in Japan was so colorful and unforgettable. I had many good friends and so many wonderful times. This is a most beautiful memory in my life.

Five years is a very short time compared to my whole life, but that five-year experience led me to today. I truly appreciate the special English program as it gave me such a great opportunity in life. I would like to express my special thanks to my dear mentor, Professor Yokota, not only for his great instruction but also for his kindness. He has always been so helpful to me anytime I needed it over the past 10 years.

Twenty years may not seem that long, but already a good name has been built up for our special English program. I wish the special English program the very best in the future! I also extend my warmest congratulations and best wishes for the program's continuing success. Twenty is a great age to be!

Fall is coming in Sapporo. The beautiful ginkgo avenue of Hokkaido University will surely be in my dreams tonight.

Remarks

1. **Liyuan Li**, Masaru Wada, and Atsushi Yokota. 2007. A comparative proteomic approach to understand the adaptations of an H^+-ATPase-defective mutant of *Corynebacterium* glutamicum ATCC14067 to energy deficiencies. Proteomics 7: 3348–3357.
2. **Liyuan Li**, Masaru Wada, and Atsushi Yokota. 2007. Cytoplasmic proteome reference map for a glutamic acid-producing *Corynebacterium glutamicum* ATCC14067. Proteomics 7: 4317–4322.

P.S. The dataset has been deposited to public repository PRIDE(accession no. 2029), and World-2DPAGE portal(accession no. 0001).

Letters from Alumni

Phebe Hendra

Graduated in 2009 (DC), Indonesia

I graduated from the Laboratory of Ecological Chemistry, Division of Applied Bioscience, Graduate School of Agriculture with a PhD in 2009.

Present affiliation: Associate Professor, Laboratory of Pharmacology and Toxicology, Faculty of Pharmacy, Sanata Dharma University, Yogyakarta, Indonesia.

I started the PhD program in 2006. I was nervous about how well I would adjust to the program and curriculum. The faculty, staff and students were so welcoming and made me feel right at home. After graduation, I continued my academic career. The knowledge I have gained thus far has been invaluable in developing my career. I am incredibly grateful for my education and the relationships I have built along the way.

Letters from Alumni

Contribution to the English Program Memorial Magazine

Sali A. Ndindeng

Graduated in 2010 (DC), Cameroon

My name is Dr Sali A. Ndindeng. I am of Cameroonian nationality and a graduate of Hokkaido University (Class of September 2010). While at Hokkaido University, I studied for a PhD in Agriculture, specializing in Bio-Systems Sustainability in the Laboratory of Applied Microbiology. My research work was focused on

rice blast disease.

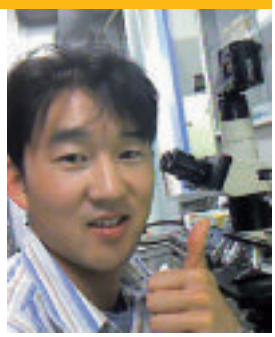
Presently, I work as an Associate Principal Scientist at the Africa Rice Center (AfricaRice) in Cote d'Ivoire and am leading the Africa-wide Rice Processing and Value-Addition taskforce. The main role of the taskforce is to contribute to making the rice value-chain in Africa more sustainable for smallholder farmers by reducing post-harvest losses and enhancing the market value of rice, rice-based food products, and rice by-products through improved rice processing technologies and practices. Some of my key achievements include the development of improved rice parboiling and husk utilization technologies for women and youth. For more information, please visit our site at http://www.ricehub.org/RT/post-harvest/.

Studying in Japan significantly affected my social and professional life. The English Program was excellently organized because it allowed me to receive both formal and non-formal education, which are both useful for surviving in an ever-challenging world. My supervisors, fellow students, the laboratory and the campus provided an excellent academic arena that gave me state-of-the-art skills to practically work in any field after graduation. The special cooking programs and parties organized at the laboratory level or by the English Program were very educative because they allowed students to share their cultures and interact more effectively with others. Studying in Japan impacted me with the notion that high quality is linked to anything "Made in Nippon" and this notion continues to guide my every step and decision.

Letters from Alumni

Tokuhisa Dai

Graduated in 2010 (DC), Brazil



I had vast expectations for participating in the Hokkaido University (HU) special English Program. I wished to learn and discover new technologies in Agricultural Sciences that might be useful for the development of my own country. In addition, I hoped to learn about academic methodology at an internationally renowned university with Nobel Prize recipients.

Following graduation, I discovered that HU

was very important for the Agricultural Sciences and when the opportunity to join was presented to me, my desire to attend this institution only grew higher. The relevance was not only for the overall learning experience but also for the prospect of experiencing an international life. Furthermore, it was an opportunity to discover more about my own Japanese heritage, since my father is Japanese and my mother is second-generation Brazilian-Japanese.

The program went beyond my expectations, enabling me to learn to a great extent about academic life, experience Japanese culture and meet many different people with different backgrounds. I came to understand how a laboratory works, improve my research skills and enjoy the benefits of studying at a renowned university. It was very significant to be able to have within my reach such a wonderful structure, using new technologies as well as different scientific approaches. I was able to observe how science is formed from different ideas, as well as how it is discovered and applied. In addition, the academic environment was different from what I had experienced in my own country, with more liberty to choose lectures and make my own schedule. Consequently, I was able to choose lectures to attend in different areas, which resulted in a good outcome for my experience.

The program also focuses on the understanding of Japanese culture and lifestyle. Personally, even though I am of Japanese descendent and had studied the language for many years, it was an individual challenge to adjust to life in Japan. I had never thought much about my heritage, not at all considering myself Japanese or Brazilian. Therefore, it was interesting to realize what this cultural background actually meant to me. After experiencing life in Japan and getting to

know more about costumes and traditions, I felt closer to understanding my own upbringing and origin. Clearly, this development was spurred by being part of a program and sharing the experience with a particular group of people, from which I learned a lot. This exposure to different cultures inside a different country was fundamental to making things less challenging, helping me believe in the importance of empathy and developing a positive view in life. Thanks to all the people I met and shared this experience with, I was able to graduate and make my dream come true by obtaining a PhD.

To me the experience was complete and I can only hope that the program continues and expands, serving as a great model for other courses in the University, as well as for other institutions.

(Sakata Seed Sudamerica, Seed technology, Supply Chain Division, Bragança Paulista- Brazil)

Letters from Alumni

Memorable note for the Special English Program of the Graduate School of Agriculture, Hokkaido University

Maria Sugiharti

Graduated in 2011 (DC), Indonesia

My name is Maria Sugiharti and I am from Indonesia. I graduated from the Special English Program of the Graduate School of Agriculture, Hokkaido University. I was enrolled in the Master's and Doctoral Program from October 2006 to September 2011 for Applied Molecular Entomology under the supervision of Prof. Hisanori Bando. I returned to my country after graduation and have since then worked in the agriculture industry. I am now managing a group researching the utilization of natural resources to find the best natural control and natural fertilizer for oil palm plantations. I am responsible for transferring the technology of beneficial microbes from the laboratory to end users in the field. Sometimes I find that not all laboratory research can be transferred into the field. They fail to show effectiveness in the field or on a larger scale and have less commercial value. The challenge for me is to figure out how to get it to work in the field. My work requires that I make an effort to encourage collaboration between researchers, producers, advisers and end users.

I am sincerely grateful because I feel well prepared to take on these challenges. This program truly prepared me for my career as a researcher, viewer, advisor and sometime lecturer. I have learned the conceptual framework of research study and got the best results during my study. I was guided through discussions, lectures, sci-

Oil palm tree with large bunches of fruit

ence meetings and even my social life on campus. The program gave me the opportunity to learn about different fields of study, as well as allowed me to work in a very good laboratory facility with excellent equipment. Therefore, my participation in this program for my master's and doctoral studies was a memorable time in my life.

Furthermore, I found that the community in this program was incredibly supportive, intellectually stimulating and also a lot of fun. I will always remember not only my research and studies but also the time I spent enjoying learning about Japanese language and culture with friends from around the world. I truly agree that knowledge and research innovation are not only found in laboratories, lecture classes and seminars but also through our social life and networks. This network continued to grow, benefit my career tremendously and make me proud to be an alumnus of this program. I believe that what I obtained from this program has been an outstanding investment toward my career.

Letters from Alumni

Rui Jiang

Graduated in 2011 (DC), China

My name is Rui Jiang and I graduated from the Laboratory of Soil Science. I now live in Yangling, Shaanxi, China.

First of all, I would like to extend my warmest congratulations and best wishes for the 20th anniversary of the special English program.

After graduating from Hokkaido University, I worked at the College of Natural Environment and Resources at Northwest A&F University for six years and became an associate professor in the field of Environmental Science in 2014. I now have my own laboratory named RJL and a study group. Thanks to the Laboratory of Soil Science and the platform of the special English program, which has rigorous teaching resources and first-class teachers, I have become capable in the areas of scientific thinking, problem-solving, and professional knowledge learning. I remember there was a party held by the English program once that proved to be an excellent way for students from the program to get together and exchange their ideas or study experiences and even find some interdisciplinary interests. I suggest that these kind of connections be made more often, through both formal and informal parties or salons. In addition, I have lost contact information for some of my fellow students after

Cherry blossom road at Northwest A&F University

graduation, so I have found myself wondering how we can build connections for the graduates of this program. I believe it would be beneficial for both the program and the graduates. For a new program like this, I guess we as graduates would really like to spread information and make some recommendations. Just keep us posted!

Miss you all and best wishes,

Rui Jiang

Group photo of the members of my lab (two master's program students graduated this year)

Letters from Alumni

Special English Program of the Graduate School of Agriculture at Hokkaido University: It Made Me Today's Me

K. B. M. Saiful Islam

Graduated in 2011 (DC), Bangladesh

It is a great pleasure to know that the Graduate School of Agriculture at Hokkaido University will be celebrating the 20th anniversary of the Special English Program in October 2017. I am also very much delighted to hear that a memorial magazine for the 20th anniversary of the Special English Program will be published on the eve of the ceremony. I really appreciate the great initiative and send my best wishes for the grand success of the ceremony. It is my utmost privilege and honor to write something in the memorial magazine as an alumnus of the Special English Program of the Graduate School of Agriculture at Hokkaido University. I spent five years on the Hokkaido University campus starting in October 2005. I believe that those five years were the most important period of my life. Those years were spent in a place where I found everything to be new and different at the beginning. The people and the language, the culture and the customs, the weather and the environment — all of it came to me in completely new and different ways. At the beginning, I was really scared and wondered if I would survive! I still remember a few words from the welcome speech my supervisor, Prof. Dr. Atsushi Yokota, made at my welcome party. Dr. Yokota completed his welcome speech by saying, "I wish and hope Islam-san will be able to survive the cold and adverse weather and complete his degree on time." Yes, I indeed worked hard to not only survive but also complete my degrees on time. I gratefully remem-

ber the tremendous support and care I received from my supervisor Dr. Yokota, co-supervisor Dr. Fukiya and my fellow labmates. They all helped and supported me in every possible way. My journey at Hokkaido University began as an MS fellow at the Laboratory of Microbial Physiology in the Research Faculty of Agriculture and ended as a Ph.D. graduate. During my time with the Laboratory of Microbial Physiology, I worked to understand the host factors that regulate the composition of gut microbiota in vivo. My work unveiled the hitherto unexplored role of bile acids as a host factor that controls the gut microbiota population in vivo, thus answering a question that has never been considered since early in the last century when the antimicrobial activity of bile acids was first described. Having been presented at different seminars, symposiums and conferences, the scientific world welcomed our findings with great appreciation and the hope that the findings would open a new door to a better understanding of the relationship between host factor and gut microbiota population. Accordingly, our work was published in a highly prestigious journal with a high impact factor (Present Impact Factor: 18.187) (*Gastroenterology* 2011; **141**: 1773–1781). I remember that our work was privileged to be published in a journal with the highest impact factor of any paper published by our English Program up until then. Consequently, I was fortunate enough to receive the prestigious Asian Young LAB Scientist Award-2011 from the International Union of Microbial Society Conference-2011 held in Sapporo, Japan. My five years of hard work in Japan paid off in different ways that actually brought me here to where I am now. My work, knowledge and learning in Japan paved the way for today's me. My two other international recognitions (i.e., Young Researcher Award-2014 from the Engineering Information Institute, Scientific Research Group and Open Access Publications, and SAADC Young Scientist Award-2015 from the 5th International Conference on Sustainable Animal Agriculture for Developing Countries) came my way as the sequel to my hard work in Japan.

Recently, I am working on the development of probiotics using isolates from native Bangladeshi poultry. My idea to develop probiotics using Bangladeshi local isolates has been appreciated by all of the stakeholders concerned and different electronics and print media have published several news pieces on the issue. At present, I

Working in my laboratory in Bangladesh

am the Chairman (Head of the Department) and Associate Professor of the Department of Medicine and Public Health, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh. At the same time, I hold the position of Center-in-Charge (Director in Charge) of the Zoonotic Diseases Research & Information Center (ZDRIC), which is the first and only center of its kind in Bangladesh. Accordingly, my workplace is facilitating the translation of my knowledge and learning in Japan into academics and research.

I am a proud alumnus of the Special English Program whose life is always influenced by his time and work at that beautiful campus. Whenever I get time, I love to swim in sweet nostalgia of my time in Japan. Besides working hard in the laboratory and sharing views and ideas in seminars, we had great fun in different cultural exchange programs like the International Food Festival, homestays, and trips around Japan. Actually, all of these events geared us up to complete our academic duties more perfectly.

A pleasant moment during Hokudai Sai 2010 with Prof. Dr. Atsushi Yokota

It has been more than five years since I came back from Japan after successfully completing my degrees. Nevertheless, the memories still feel like yesterday. I wish I could visit my favorite campus again. As a proud alumnus of the Special English Program of the Graduate School of Agriculture at Hokkaido University, I wish for the continued success of the program. I will be there with the program whenever I am able.

Letters from Alumni

Special Postgraduate Program Memorial essay:

Lukana Ngiwsara
Graduated in 2012 (DC), Thailand

During my time as a student in the Special Postgraduate Program in the division of agrobiology, I studied the structure-function relationship of glycoside hydrolase family 13 honeybee alpha-glucosidase isoenzymes. The five years I spent studying in the Molecular Enzymology Laboratory led me to understand the molecular function of enzymes and increase my knowledge from a molecular biology approach. This would not have been possible without the kind support of many people. I would like to express my sincere appreciation to Professor Dr. Atsuo Kimura and to Professor Dr. Yokota Atsushi for kindly providing me with the opportunity to obtain a scholarship. I am also very grateful to him for being helpful in introducing

me to an interesting area of research. My deepest gratitude goes to Professor Dr. Haruhide Mori who always supported my studies for his precious guidance, supervision and motivation. I would also like to thank all members of the laboratory for their kind help, understanding and friendliness. The laboratory was part of my life for five years. I feel that lab members are as close as family. I don't think I could have come this far and received my degree without the help of my teachers and friends. I will continue to carry with me the memories I made and the moments I experienced here in this place during an important time in my life.

In Thailand I started my career the year I came back from Japan. I am now a research scientist at the Biochemistry Laboratory of the Chulabhorn Research Institute in Thailand where I am engaged in a project focused on genetic diseases, which are a serious problem in this country. Better understanding of the molecular basis of such diseases can lead to improved diagnostic techniques, improved prevention through genetic counseling, and improved management of clinical manifestations. My recent research focuses on unusual inborn errors of metabolism not previously characterized in this country and the molecular mechanisms by which they lead to their defects. Through this project, I have used the skills and knowledge I gained from studying in the Postgraduate Program and applied them to my work here.

(Chulabhorn Research Institute, Bangkok, Thailand)

Graduation ceremony on 25 September 2012

Letters from Alumni

Remarks regarding the English Program:

Mengcen Wang

Graduated in 2013 (DC), China

Thanks to the support of the English Program of Hokkaido University and the Chinese Scholarship Council, I was fortunate to enter Prof. Yasuyuki Hashidoko's laboratory in 2010 as a doctoral candidate. Over the three years I spent under his scholastic guidance and scrupulous instruction, I was not only impressed by his intellectual suggestion and constant inspiration but also benefited from his warm courtesy, which helped me to overcome the difficulties I encountered during my studies and finally complete the doctoral program in 2013. More importantly, the three years I spent studying at Hokkaido University broadened my views toward scientific exploration and also advanced my understanding of Japanese culture and the concept of globalization and collaboration, all of which have had a profound impact on my life.

I now work as a lecturer in the College of Agriculture and Biotechnology(CAB) at Zhejiang

This photo is of the current members of the Research Group of Pesticide and Microbial Signaling Chemistry, Institute of Pesticide and Environmental Toxicology, Zhejiang University. From left to right: Kun Qiao (MC 1), Xiaoyu Liu (MC 2), Mengcen Wang (Ph.D., Study Director), Dandan Xiang (DC 3), Jiuyue Pan (BC 4), Tianyi Chu (MC 2).

The statue of the Qiushi Eagle originated from the school badge of Zhejiang University, and was created in celebration of the 120th Anniversary of Zhejiang University. The seven colors of the rainbow of the Qiushi Eagle represent that the merging and cooperation of the seven faculties of Zhejiang University will promote innovation through multidisciplinary approaches.

University (ZJU) in China. My research projects are still highly associated with my doctoral research work but have been extended further to include Environmental Chemistry, Omics and Microecology. Moreover, I have never stopped collaborating with Hokkaido University, whether it be on scientific research projects or the promotion of student exchanges. For instance, Prof. Hashidoko has been invited to participate in the Promotion Program for Young Investigators of CAB, ZJU, while two graduates of ZJU were admitted to the English Program of the Graduate School of Agriculture at Hokkaido University.

More significantly, I feel that more and more connections among various universities worldwide have been established by graduates of the English Program at Hokkaido University. Take myself as an example. I remain in contact with my laboratory members from the English Program, most of whom now work in the United States, and we always share our scientific progress and initiate collaboration. We all appreciate the fact that we studied together at Hokkaido University as members of the English Program, which was the most valuable and memorable experience of our lives.

Finally, I hope the English Program will continue to expand its cooperation with more overseas universities and recruit more excellent international students, which would definitely promote the global impact of Hokkaido University and deepen international cooperation.

Letters from Alumni

Adji Fengky Florante

Graduated in 2014 (DC), Indonesia

Since graduating from the Faculty of Agriculture at Hokkaido University on March 25, 2014 (Doctoral Program) through the special English Program with Prof. Ryusuke Hatano as

my supervisor, I have had a good chance to develop the knowledge I gained through my studies in Sapporo. This was especially true when my research was focused on peatlands in Central Kalimantan, Indonesia.

Peatland issues (peat fires, C emission, etc.) have become a global concern. Our institution therefore strives to be involved in providing solutions to these problems, especially in terms of peatland management and rehabilitation.

By providing the knowledge I have obtained through my current work and the results of my research, I believe I will be able to contribute to improving the quality of higher education in relation to the management of peat in Indonesia, and particularly Central Kalimantan.

Location of forest and peatland fires in Tumbang Nusa Village, Central Kalimantan Province, Indonesia (Photo by Adji F. F on October 14, 2015).

(Lecturer, Agro-technology Department, Faculty of Agriculture, University of Palangka Raya, Central Kalimantan, Indonesia)

Letters from Alumni

Chunying Wang

Graduated in 2014 (DC), China

My name is Chunying WANG and I graduated from the Laboratory of Soil Science of the Graduate School of Agriculture at Hokkaido University. After receiving my PhD, I started working for the North China University of Water Resources and Electric Power (NCWU) located in Zhengzhou, China. I am now working as a lecturer and researcher at NCWU and have begun serving as a project leader and supervisor for students in our Master's program.

In addition, I joined the Water Resources Management and Water Ecosystem Protection Research Group at NCWU to collaborate with other excellent researchers. Although I have successfully applied for other research projects, it is not easy for me to conduct research independently without a supervisor. I am trying my best, however, to make new scientific achievements, and believe the training I received while studying for my PhD in the special English program has really helped me in my current job. I experienced effective and wonderful scientific training through the special English program by conducting field and laboratory experiments, attending international conferences and giving presentations, visiting overseas research institutions and researchers, communicating scientific

ideas to members of the Laboratory of Soil Science, and publishing research papers in international journals under the guidance of my supervisor, Prof. Hatano Ryusuke. I believe these experiences played a key role in leading me to my present job. I always appreciated the support of other members (teachers and students) of the special English program and feel lucky to have joined this program and become a member of the Laboratory of Soil Science as a student of Hatano-sensei.

Letters from Alumni

Jayoung Lee

Graduated in 2014 (DC), Korea

I am so fortunate to have had the experience of studying in the Special Postgraduate Program in Biosphere Sustainability Science at Hokkaido University. This program was a great chance to really discover myself. I came to Hokkaido University to study for my master's and doctoral degrees in the Laboratory of Microbial Physiology. My research themes were the study of bile acid-converting bacteria during my master's course and the relationship between intestinal microbiota, bile acid and metabolic disease during my doctoral course. Many new skills were required to conduct research in the gut

I am enjoying Tokyo life doing pole dance as my new hobby. After work, I mostly spend my time to develop the trick of pole dance and the flexibility.

microbiota field by changing themes from my master's course to my doctoral course. Although it was incredibly hard at first, it was ultimately well worth it. My fellow laboratory members were very kind to me and willing to help me with everything. I quickly built relationships with them, as well as with people from all over the world. I sometimes had the opportunity to attend parties with fellow laboratory members and we went on a laboratory trip to Jozankei every year. Dancing with my laboratory members on our first laboratory trip was an unforgettable experience.

During the last year of my doctoral course, I considered whether I should stay in Japan or go back to my own country. In the end, I chose to find employment in Japan. There are two reasons for this. First, the increase in hiring at companies in Japan is contrary to the situation in my home country. Second, I wanted to apply the knowledge and skills I acquired during my master's and doctoral courses to my work. I therefore chose to work for NISSIN FOODS HOLDINGS, which is my current employer. At present, I belong to the Department of Health Science Research and am responsible for research on gut microbiota.

I truly believe that studying abroad at Hokkaido University was the best choice I have made in my life.

(Nissin Foods Holdings Co., Ltd., Japan)

Letters from Alumni

My Story

Abdul Latif Noh

Graduated in 2015 (DC), Malaysia

My name is Abdul Latif Noh and I am from Malaysia. I am among the candidates fortunate enough to have been enrolled in the English program of the Agriculture Department (Nogakubu) at Hokkaido University through the MEXT scholarship. In October 2010, I arrived in Japan for the first time as a Master's student in the Derek Laboratory and completed my Master's degree in Agrobiology two years later in 2012 under the supervision of Dr Derek Bartlem. Then, in 2015, I completed my PhD in Agrobiology in the Bunsei (molecular biology) laboratory under the supervision of Hitoshi Onouchi Sensei. I am truly grateful to both of my supervisors, and during the five years I spent in the Nogakubu, I was able to learn about culture and research management from the perspective of a developed country like Japan.

1) Session with Emer. Prof. Dato' Dr Abdul Latiff Mohamad (President of WWF Malaysia) at an International Conference held by the Kulliyyah of Science IIUM in Malaysia

2) Session with the Dean of the Kulliyyah of Science (IIUM) together with fellow academicians

3) Site visit regarding a possible area for collaborative research with fellow colleagues

Graduation ceremony in the year of 2015 following the completion of my PhD and the birth of my second son

Just after graduating in September 2015, I was directly enrolled as an academician and researcher in the Kulliyyah of Science (Science Faculty) at the International Islamic University Malaysia (IIUM) in Malaysia. I was assigned to the Biotechnology Department for about a year. The Faculty of Science is now expanding and currently in the process of opening a new Plant Science Department. Since the Dean knows my background and the program from which I graduated (Nogakubu), management invited me to join the newly opened department. Starting from this year, I am enrolled as one of the academicians and researchers in the new department. I believe my experience studying in Japan will be very useful for the new department in which I am currently enrolled.

As a graduate of the English program, I am proud to be part of the "family." I am grateful that my career development has expanded thanks to this program; not only in terms of the knowledge and experience I acquired but also in terms of networking with other candidates from all over the world. Those of us who were en-

rolled in the English Program developed great connections and networks for future collaboration, especially in our specific research areas. This is a particularly great opportunity for candidates coming from various countries to collaborate together and initiate fascinating research. I hope that one day all of the alumni from the English program will be able to gather together and meet at an organized event such as an international conference or symposium. I believe this kind of gathering would build a strong bond among all candidates!

(International Islamic University, Malaysia)

Letters from Alumni

Mengjie Li

Graduated in 2015 (DC), China

My name is Mengjie Li. Under the advising of Professor Hatano Ryusuke, I received my doctoral degree from the Laboratory of Soil Science of the Graduate School of Agriculture at Hokkaido University in 2015. Since graduation, I have been working for the College of Resources and Environment at Gansu Agricultural University (GAU), which is located in Lanzhou, Gansu Province, Northwestern China. I am currently a lecturer at GAU, focusing on the research of greenhouse gases from soil and heavy-metal pollution in soil. I also teach undergraduates at GAU as part of my job, which primarily includes classes on Soil and Fertilizer, Agro-ecology and Restoration Ecology, and Environmental Protection and Sustainable Development.

When I was pursuing my Ph.D. at Hokkaido University from 2012 to 2015, I participated in the English Course Program organized by the Agriculture School. I have to say that the Program benefited me tremendously and broadened my career. First, the Program significantly improved my view with a multicultural vision. I had many chances to improve my English and experience different cultures, which not only helped me with my academic English writing and speaking but also opened an avenue for me to better understand how people around the

world think and live. Second, the Laboratory of Soil Science had many overseas students from Eastern Asia, Southern Asia, and Africa as a result of the Program. Together with domestic students and staff, we built a mini "international community" there. I have learned how to be united, how to care for each other, and how to be responsible. I truly believe that all I have learned will benefit and elevate my career and profession. Third, thanks to the tradition and culture of Hokkaido University, I was impacted by the University's motto. I will build my life with "ambition" and influence my students by spreading "ambitious" ideas and love. Education can change people, and education can change [area / society?]. I hope the education I received from Hokkaido University will not only change my career and life but also help me to change people and [area / society?] with hope and development.

On the occasion of this 20th Anniversary issue, I would like to express my appreciation to the Program, my advisor Prof. Hatano, my colleagues and classmates, and all of the staff. Happy birthday to the Program!

(Gansu Agricultural University (GAU), China)

Letters from Alumni

Li Xi

Graduated in 2015 (DC), China

Present situation:

I am an Associate Professor in the Laboratory of Environmental Science and Engineering, specializing in environmental modeling and soil remediation. Currently I am supervising two graduate students and am engaged in a project supported by the National Key Laboratory Open Project Fund.

In addition, I have served as a lecturer for an Environmental Chemistry course.

Impressive memories and experiences leading to your current job:

When I was a D1 student at Hokkaido University, I remember my supervisor Prof. Hatano giving a speech at the New Year's party for international students. He told us, "The majority of you are from developing countries, and it is my hope that you will return to your country, region, hometown or anywhere else that needs your help to assist people still living in less-developed areas." When I finished my DC course, I debated whether to become a salary man in Japan or a university teacher in China. I will al-

Members from the Laboratory of Soil Science at the 3rd Iowa Southeast Asia Biodiversity Conference held at Iowa State University in the U.S.A. in October 2011.

ways remember the words I received from my supervisor, and the high hopes he had for his students to contribute to the field of soil science. I am so glad to have returned to my country. China faces many environment problems, including soil contamination, air pollution, and ecological damage. I am very glad that I can do my part to help China's environment. I enjoy my work very much, I love my job and my students, and I am incredibly thankful for my supervisor and the other teachers, professors and friends who influenced me at Hokkaido University.

(First Name: XI Family Name: Li, School of Chemistry and Chemical Engineering, Southwest Petroleum University, Chengdu 610500, China Email: icy124@hotmail.com)

With my supervisor, Prof. Hatano, at the 4th International EUROSOIL held in Italy in July 2012.

Oral Presentation at the Japan SSPN Conference held in Sapporo in December 2013.

Letters from Alumni

Atfritedy Limin

Graduated in 2015 (DC), Indonesia

My name is Atfritedy Limin, but my laboratory members call me Tedy. I am from Indonesia and acquired my Master's degree and PhD through the Special English Program of the Faculty of Agriculture's Laboratory of Soil Science. I graduated from Hok-

kaido University in September 2015 and am now working at Great Giant Pineapple (GGP) company, which is under the Gunung Sewu Group. Our company operates the largest integrated canned pineapple facility in the world, with its plantation and factory (including drum and can production) in one location. In addition, our company produces bananas, guava and other fruits. My position at the company is Strategic Planning Specialist, and my work focuses on sustainable agriculture. More specifically, I ensure that we maintain the best soil quality for plant growth.

During my five years of study in Japan, I learned many lessons that can be used in my present work, especially in relation to soil science. Through my studies, I was able to improve not only my hard skills but also my soft skills. At Hokkaido University, we were taught how to give good presentations, how to communicate fluently, and — most importantly — how to think as a scientist. We also had many chances to present our research studies at international conferences. There are many foreign students from various countries enrolled in the Special English Program. Differences in nationality and scientific background provide each student with a different perspective on issues. This helped me become more open-minded and expand my knowledge. The lessons I learned and knowledge I obtained at the university led me to my current job. As we know in the world of work, hard skills and soft skills are very influential on employee performance and achievement. Both are tremendously important and complement each other. For those who are about to enter or are currently studying at Hokkaido University, I encourage you to expand your network so you can learn from others, enjoy your time at the university and remember to be ambitious. I am very grateful to Hokkaido University for giving me a remarkable university life and I am proud to say I am a graduate of Hokkaido University.

Harvesting pineapple involves the use of machine and human power. Manpower is used for separating the crown from the fruit.

Letters from Alumni

Fiolenta Marpaung

Graduated in 2016 (DC), Indonesia

For most graduate students, the slap on the face that turns their life and career around is figurative. Mine was literal. Actually, it was a punch delivered by my previous director at the Indonesian Research Agency in Indonesia while I was a working as a research assistant. I had joined several research studies and projects, particularly in the fields of meteorology, satellite image processing and Geographic Information System (GIS) applications. I felt rather saturated in these research fields. My previous directors were typically very good at detecting this type of laziness. He therefore repeatedly suggested I get an advanced degree in this field and informed me about the postgraduate program in biosphere sustainability science at Hokkaido University. At first glance I knew the university had a beautiful campus and great laboratories. I joined and was heartily welcomed by the Laboratory of Environmental Informatics and the Laboratory of Ecological and Environmental Physics, where the friendly company, collaboration, and support during my research remain fresh in my memories of Japan.

My doctoral research was focused on monitoring greenhouse gas emissions in tropical peatland. This is of particular importance in my

Me, at the field survey of peatland

With my lab mates at the Hokkaido University

home country of Indonesia, as peatland is now being subjected to intensive land use changes and being converted into different forms of agricultural use. My research didn't stop after graduation. Upon returning to Indonesia, I joined peatland projects with a particular focus on supporting the Indonesia government in terms of monitoring Indonesia's peatland using remote sensing. I am glad there is a close connection between my research and my career.

(Researcher at the Agency for the Assessment and Application of Technology (BPPT); Country: Indonesia)

Letters from Alumni

For the 20th Anniversary Magazine of the Special English Program

Lei Wang

Graduated in 2016 (DC), China

My name is Lei Wang and I am a PhD student who graduated from the Laboratory of Molecular & Ecological Chemistry, Division of Applied Bioscience, Graduate School of Agriculture, Hokkaido University. I am currently working as a Postdoctoral Associate with the Center for Drug Design, Academic Health Center, University of Minnesota, USA. I joined the special English program of the Graduate School of Agriculture in 2011. During my five years of study, I learned a lot and was well trained. My major is now Medicinal Chemistry and I am working on designing HIV inhibitors. What I gained from the special English program has benefited me tremendously. I can now make an effective connection between my previous study and current work. Furthermore, it was really wonderful to meet my supervisor and friends here. I really appreciated the special English program of the Graduate School of Agriculture and hope it continues to thrive for many more years.

(E-mail: lei870610@gmail.com)

A photo taken at Target Center, home of the Minnesota Timberwolves NBA basketball team.

Letters from Alumni

Never Forgotten Memories of Hokkaido University

Zhang Xiaomeng

Graduated in 2016 (DC), China

My name is Zhang Xiaomeng and I am from China. I started my doctoral course under the guidance of Prof. Inoue in the Laboratory of Land and Water Management in 2013, and obtained my Ph.D. in 2016 in the field of Environmental Resources from the Graduate School of Agriculture.

I am currently conducting research as a postdoctoral student at Jinan University in Guangzhou, China. The main theme of my research is the construction of a wetlands system used for the removal of emerging pollutants and the development of new techniques. Thanks to my experience studying at Hokkaido University, I earned rigorous scholarship from my supervisor, Professor Inoue. This has helped me greatly in my postdoctoral studies.

Although it has been nearly a year since I graduated, my memories of life in Sapporo remain vivid in my mind.

With the help of the research fund, I took part in my first international conference in Kochi where I made an oral presentation. I then went to the UK and Poland in the following two years for other international conferences with financial support from the Alumni of the School of Agriculture at Hokkaido University. These three experiences not only boosted my confidence in conducting research but also exercised my ability to communicate with others. It was thanks to the skills I gained from Hokkaido University that I acquired my postdoctoral position and have been able to continue my scientific research.

In addition to this, I still remember the shock of seeing Ginkgo Avenue for the first time, the fantastic snow that fell every winter, the interesting activities held in my laboratory and at the college, the friendly and warmly lab members who helped me adapt to living in Japan, and more. I have many precious memories that will never be forgotten.

I miss life in Sapporo and wish I could return to Hokkaido University once again.

(Dr. Zhang, Xiaomeng, Department of Ecology/ Research Center of Hydrobiology, Jinan University, P.R. China)

After the field work in Embetsu Town, Northern Hokkaido. (May 18, 2016)

Letters from Alumni

Evgenios Agathokleous

Graduated in 2017 (DC), Cyprus

After completing my two-year military service in Cyprus, I moved to Athens, Greece, for a Diploma in Agricultural Science in 2007. It was during my third year of studies that I decided to continue for a PhD in Japan. My goal was to receive a Japanese Government (Monbukagakusho) Scholarship through the embassy's recommendation. Aware of the very high competition across all disciplines, I started building my CV as far as is possible for a student. In my attempt to do so, I experienced some exchanges in the framework of the Erasmus programme funded by the E.U., including a three-month internship at an E.U. research institute in Turin, Italy. I also participated in several research studies relevant to the topics I wanted to study for my PhD in the future, attended some basic Japanese language classes, and started searching for information about Japanese universities and research groups as well as preparing for the long process of the competition for the scholarship. During the finalization of my preparation for the 2013 competition for the scholarship (winter 2012), I was accepted by two professors, one at Hokkaido University (Hokudai) and one at The University of Tokyo. It was difficult for me to decide which to choose. After considering several factors, I decided that my first choice was Hokudai.

And it was here the adventure began. Just after I was informed about my success in receiving the scholarship, my candidate supervisor, Dr. Takayoshi Koike, Professor of the Laboratory of Silviculture and Forest Ecology, encouraged me to submit a presentation for an international conference to be held in 2014 in China. This was not the end. He further encouraged me to start preparing some review articles. And although he was closely following my "journey" in science, he granted me autonomy to think, plan and create my own science. I entered Hokudai in April 2014 as a Research Student for six months. I was then successfully admitted to the PhD course of the Special Postgraduate Program of the Biosphere Sustainability Science in October 2014, and was awarded my PhD in March 2017.

In 2016, I successfully competed for the Post-Doc Fellowship of the Japan Society of the Promotion of Science (JSPS), which I started in April 2017. Currently, I am a Special Foreign Researcher of the Forestry and Forest Products Institute, Hokkaido Research Center, Sapporo, under the JSPS' recruitment, and a Researcher

of the Research Faculty of Agriculture of Hokudai. A key to my success in completing the PhD course on time and receiving the JSPS fellowship was the great support and hospitality of my PhD supervisor and the School of Agriculture at Hokudai. Furthermore, the guidance, financial support for resources and research, and the international environment of the school were key factors for establishing a global network. Currently, I am serving as the Deputy Coordinator of the International Union of Forest Research Organizations (IUFRO) WG. 7.01.09 Ground-level Ozone, and on the scientific committee of the 2nd International Conference on Ozone and Plant Ecosystems to be held in Florence, Italy, in 2018.

During my studies at Hokudai, I had the chance to meet many international researchers either at Hokudai or while participating in several international conferences. I consider this to be one of the most important factors for establishing a global network. I could establish several research collaborations with researchers from different disciplines. This was a great chance to produce impactful global science. I had the opportunity to make many friends from all over the world, as Hokudai welcomes students from across the globe. Japan is an amazing country to live, safe and well-organized, and Sapporo is very convenient. The campus of Hokudai is in the center of the city, close to metro stations and surrounded by restaurants and all of the services that can be found in large cities. The campus is a tourist attraction and makes you feel as if you are in nature on a daily basis. The quality of life there is very high as the environment is clean, and the transportation very easy. In Sapporo, one can experience the unique experience of a deep winter, with lots of snow, for a long period of time. While this can be somewhat frustrating at first, it can turn out to be a unique chance to enjoy winter sports and other winter activities such as the snow festival (Yuki Matsuri) that is a popular tourist attraction event.

I welcome you to this exciting Special Program of Hokkaido University. There are numerous benefits from studying at Hokkaido University. Living in such a unique place can be a further challenge to you, as it was to me as well. My message to you is to make plans in advance, do your best to accomplish them, be ambitious and do not hesitate. Remember that "a journey of a thousand miles begins with a single step." I will be glad to answer any questions you may have about the Special Program, the school itself, life in Sapporo and anything else.

Evgenios Agathokleous, PhD Hokkaido University
Special Researcher, Hokkaido Research Center, FFPRI
Forest Research and Management Organization
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Letters from Alumni

Cong Shi

Current student, China

My name is Cong SHI, and I am from the Laboratory of Silviculture and Forest Ecology. I am a beneficiary of the Special English Program of the Graduate School of Agriculture at Hokkaido University, and have pursued a PhD in Environmental Resources through this program for three years. I am lucky to have been accepted into this program and to have studied under my supervisor, Prof. Takayoshi Koike. I am grateful to him for his mentorship, all the way from when I first began considering applying to this doctoral program up until the completion of this degree. I would like to express my thanks to my supervisor for introducing me to this program. It has definitely made my life better, not only because of the PhD I obtained but also because of the meaningful and colorful time I spent in Japan.

First of all, I am grateful to have maximum freedom in my research. This means the bulk of my days are spent reading new articles, thinking to develop new ideas, and deciding on appropriate experiments to conduct. In fact, all schedules are decided on my own, so I feel very relaxed and am able to spend my spare time doing a number of things I am interested in, for example learning Japanese and taking hot yoga classes. When my experiments don't call for weekend work, how I use my free time is dependent on the season. For the long winter period in Hokkaido, the excellent powder snow allows me to ski my heart out, while the comfortable temperature in summer provides suitable weather for outdoor fun.

What's more, I am appreciative of the balance of routine and freshness provided by Hokkaido University. My daily routine consists of a Japanese language class that is conducted by the university without charging any tuition fee(90 min. per class, once or twice a week). By constantly taking these Japanese classes, I eventually passed the Japanese Language Proficiency Test(JLPT) with the highest level(N1), which will definitely be helpful for either job hunting in Japan, or involvement in Japan-related projects in my future career.

Of course, each new day starts with research in my lab. In the growing season, I enjoy busy work in the field at our experimental nursery. In the winter, I enjoy conducting chemical analysis in the lab. It's like I have a small conversation with the cute little samples and they would like to share their secrets with me by showing me proper numbers. Every time I complete the chemical work and get the data I wanted, I feel very satisfied and full of achievement.

Last but not least, I do enjoy the research atmosphere in my lab. Collaboration comes very easy and everyone in my lab — regardless of their nationality or race — helps each other without hesitation. I do remember the time we worked together in the field with our O_3-FACE (Free Air Controlled Exposure) system, from the hottest noon till the heavy rains. My 63-year old supervisor, forgetting his age, would climb up and down, working hard with us like a young person (see photo below). This made me realize that our team was more than one family and I am truly lucky to be involved in such an amazing group.

I appreciate this great program at Hokkaido University for enabling me to spend the most fruitful years of my life here. I love it from the bottom of my heart and would gladly recommend this wonderful program to anyone who is interested in studying in Japan.

Letters from Alumni

An ordinary but enjoyable life at Hokkaido University

Hao Wang
Current Student, China

Traveling to a new country sounds heavenly, but actually doing it requires courage! I was not quite convinced that I could successfully complete my research with high honors if I became distracted by or could not adapt to my new surroundings.

The Special Postgraduate Program (SPGP) in Biosphere Sustainability Science not only offered me an opportunity to conduct cutting-edge research under the guidance of world-class researchers but also a platform to meet and network with people from various countries and disciplines.

My research is focused on the automation of agricultural machinery, which is considered one of the most efficient ways to improve the productivity and quality of farming to meet the

combined challenges of population growth and an aging work force in rural areas. The autonomous agricultural vehicle is mainly used for tillage, seeding, spraying, harvesting, transporting, and other agricultural operations without a human driver. My laboratory provides me with advanced equipment and opportunities necessary for my research. Take, for example, the Australia-Japan collaboration project, which was aimed at evaluating Japan's QZSS for real-time positioning during routine precision farming operations. To fulfill the trials undertaken in Australia, I had to clearly understand the entire mechanism of the autonomous system and meticulously adjust each control parameter. In addition, cooperation with local farms, staff and other researchers from Japan and Australia was indispensable. Communication among colleagues from different research institutes was a source of inspiration for exploring new ideas and wider conceptions. By developing and testing the latest robotic tractor system, I have deepened my knowledge and developed problem-solving skills.

In addition, research is not the only aspect of my studies in Japan. I have learned a lot about myself, as well as what I can handle in life. Living alone, adjusting to a new culture, and embracing my life are lessons I never thought I would learn. The program has provided me with a wide array of opportunities to communicate and cooperate with various people. Four main events are organized for program participants by the Student Committee of SPGP in cooperation with Student Affairs each year: public defense, a graduation party, a graduation ceremony, and a welcome party. Cooperating with other student committee members, I arranged the farewell party to not only congratulate the graduating Master's and Ph.D. students but also give thanks to faculty members. Preparing for each event allowed me to adapt to life in Japanese society and deepen my intercultural understanding.

The lessons I learned, friends I made, places I visited, and activities I joined were all part of a priceless experience I will remember forever. These memories, both those in my mind and those captured in photos, will never be forgotten.

(Laboratory of Vehicle Robotics)

Letters from Alumni

Yannan Wang

Current student, China

My name is Yannan WANG(Ms.), and I belong to the Laboratory of Silviculture and Forest Ecology. I graduated from Beijing Forestry University in China. I am currently studying for my master's degree in the course of Environmental Resources through the Special English Program of the Graduate School of Agriculture at Hokkaido University.

First of all, I feel very lucky to have the opportunity to participate in this program. Also, I am very proud of joining our group and grateful to my supervisor for introducing me to this pro-

gram. It has been a tremendous help as I don't need to think about the burdens of life. It also gives me more time to enjoy studying in Japan.

In addition to the English program course, I attended lectures by the Hokkaido University Short Term Exchange Program (HUSTEP) during the winter of my first year. In the spring, I also took two Japanese classes (Silviculture and Forest Protection). Moreover, I acted as a Teaching Assistant (TA) for a Silviculture class in Japanese, and for an English lecture for a Taiwan student as part of the Short-term Stay (SS) program of the Japan Student Service Organization (JASSO).

The focus of my master's studies is to reveal the effect of elevated Ozone (O_3) and soil salinization with Alkali ($NaHCO_3$ or Na_2CO_3) on three varieties of larch species to contribute to the revegetation of northeast China in the future. To attain our goal, research is being carried out in a greenhouse to avoid rain as well as using an open top chamber (OTC) system in the Sapporo Experimental Forest (Photo 1). To create experiments with numerous materials and treatments, I am working together closely with my lab members—Ms. Natsumi Tsubo, Ms. Asuka Nishii and Mr. Tetsuto Sugai. We are incredibly lucky to be receiving guidance from Dr. T. Watanabe of the Laboratory of Plant Nutrient Ecology. We use Chlorophyll fluorescence methods in a dark room to evaluate the combination effect of elevated O_3 and soil salinization. What's more, I joined a field survey for measuring light conditions at different heights in the canopy of Siebold's beech with a tower in Kuromatsunai Town in mid-July.

In October 2017, I will contribute to an international congress Forest Health Working Group of the International Union of Forest Research Organization (IUFRO) in Tokyo and Yamanashi pref. as a host-side student (http://web.tuat.ac.jp/~iufro-tokyo2017/Home.html). This will surely be a good experience for me to work with elder Japanese classmates from my laboratory and members from Tokyo University of Agriculture and Technology.

Finally, I'd like to say that I really like the atmosphere of our lab. It's easy to cooperate with everyone in the lab, and there is a feeling of easiness even in times of difficulties. We do not complain about each other but rather understand and help one another. For example, when we worked together to prepare our OTC sys-

This photo was taken at a big full-day softball competition to welcome second year students on May 24, 2017 (photo by T. Koike). Most of my lab members joined this activity and wore handmade uniforms! According to my adviser, this event is important for us to manage forests in the future because our target is so big in scale, thus requiring mutual trust and cooperation.

tem, it was not only the student members who worked hard but also my tutor. He worked just as hard as we did, like a young man. I think our lab is like one big family, and I'm really lucky to be a part of this big team.

I have only one year left to study at Hokkaido University to complete my master's degree. There will be many interesting things to do and places to see. I appreciate this great program at Hokkaido University for giving me the chance to build an interesting life experience.

Letters from Alumni

Sitty Nur Syafa binti Bakri and Dolgormaa Mendbayar

Current students, Malaysia and Mongolia

We always find it difficult to come up with the perfect answer when asked, "Why did you choose Japan to pursue higher level studies?" This is our story.

Although studying abroad has always been our dream, Japan was never on our list. The language is probably the ultimate barrier when it comes to considering Japan as an option. However, an eye-opening opportunity arose when we were introduced to an English program in Japan through which we could study in Japan but in English. After learning about this opportunity we said to ourselves, "Perhaps it is time to give it a chance!" Since then, we have become full-time international students of the Special Post-graduate Program in Biosphere Sustainability Science (SPPBSS) in the Graduate School of Agriculture at Hokkaido University. Up until now (2017), both of us have been very grateful for the opportunity given to us to study in Japan through an English program. We are convinced that without this English program, it would have been nearly impossible to have the chance and experience to study in Japan without Japanese language qualifications. Throughout the program, knowledge and technologies developed by the Japanese have been transferred to us through English as a medium. We have gained many new insights from not only the classroom but also the curriculum structure, including lab seminars, student activities and presentations by invited speakers. In the bigger picture, an English program is a golden gate of opportunity for acquiring advanced knowledge and precious life experiences while studying in Japan. At the same time, both of us strongly believe the English program should undergo improvements from time to time. Particularly in our program of SPPBSS, course evaluation is an important area

Sitty Nur Syafa binti Bakri (Left) and Dolgormaa Mendbayar (Right) with Prof. Dr. Iwabuchi Kazunori, Laboratory of Agricultural Bio-system Engineering

needing improvement. We have done evaluations every year and feel this practice should remain intact and that feedback from students should not be neglected. In addition, communication via English as a medium should be understandable at all levels and more specifically between international students and stakeholders (e.g., officers and lecturers). Therefore, providing hands-on training from homegrown experts to stakeholders to enhance their communication and presentation skills is highly recommended; for example, training organized by I-Hop of Hokudai. Moreover, our program could be further enhanced by offering a duo program or short-term outreach activity with a counterpart university in a native English speaking country for knowledge transfer. By providing options like these, the English course would not only be attractive to international students but also to Japanese students and eventually there would be more room for Japanese students to be part of the English program. As for us, we would be thrilled to have Japanese friends in a similar course other than our lab mates. Last but not least, we are truly proud to be part of this family and do hope that our English program will be everlasting and continue giving its best to every nation. Thank you very much!

Letters from Alumni

Ikabongo Mukumbuta

Current Student, Zambia

Expectation

One of the most important considerations when choosing a university to study at in Japan was the ability to study in English (of course I wanted to learn Japanese as well, but just for normal daily life and not for studies). I was therefore very happy when I learned about the Special English program in Bio-systems Sustainability in the Graduate School of Agriculture at Hokkaido University. Going into the program I had an open mind, but of course expected to gain knowledge that would be useful for my future.

Experience

Hokkaido University provided me with not only an opportunity to conduct cutting-edge re-

search to solve global problems but also a platform to meet and network with people from various countries and disciplines. The school has great laboratories with state-of-the-art facilities. I had a very good relationship with my professor (and other professors in the faculty). They were very helpful to me both academically and socially.

Not only did I get a chance to conduct excellent research but I also had numerous opportunities to share my research with others through conferences both within Japan and abroad. During my stay I travelled to three different countries to attend international conferences and in all cases the University supported me with travel grants. This enabled me to gain presentation skills, expand my perspective and learn about new and different research being conducted in other universities and countries.

In addition to its great academic environment, Hokkaido University has a very beautiful and relaxing campus. Its location is also excellent with easy access to the rest of the city of Sapporo and Hokkaido as a whole. One of my best experiences has been learning a totally different and new culture and language. Hokkaido is very cold in winter, but winter is beautiful and a nice experience. Since the first time I tried skiing I have fallen in love with it; it's amazing and I would recommend new students to try it.

Significance of my experience/study

My research is focused on mitigating greenhouse gas emissions from soils for a clean and climate-smart agriculture. This is of particular importance to my home country of Zambia, as our agriculture must undergo significant improvements in productivity to meet the combined challenges of population growth and climate change. I'm certain I will be more equipped to help solve challenges related to food security and environmental sustainability when I go back to my country. I'm very grateful that I got the chance to study in this program.

Advice/proposal

I would love to see more Japanese students joining the English program. This will increase class-cultural-interaction between international and Japanese students. I also recommend more student discussions in class, especially for master's students, and the introduction of more subject courses in the English program.

(Laboratory of Soil Science)

Letters from Alumni

Lucy Lahrita

Current Student, Indonesia

It has been four years since I first came to Hokkaido University to join the Special English Program of the Graduate School of Agriculture. Next year will be my graduation from Hokkaido University. Some say "time flies when you're having fun," and so do I. Having come from Indonesia to pursue my graduate studies, I have gained much experience and enriched the

value of my life over the past several years. In honor of the special occasion of the 20th anniversary of the Special English Program, I would like to share my experiences inside and outside the Graduate School of Agriculture that have shaped me into who I am today.

For international students, studying outside their home countries can be challenging at the beginning. Because of our international mobility, we are exposed to miscellaneous ways of life, different people and various cultures, and sometimes it can take months for us to adapt to a new environment. Fortunately, my transition process went smoothly with the help and support of my academic co-supervisors, lab mates, and the professionalism of the Agriculture's student affairs office. Thanks to the Special English Program that enabled me to study and conduct research at Hokkaido University, I would like to encourage fellow students to work up the courage to study outside their comfort zones(**Photo 1**). The benefit of global research mobility is that it enables young students to not only learn from each other but also to have a better chance to access unlimited opportunities, which can lead to scientific careers at top research institutes. Experiencing the benefits of research mobility myself encouraged me to undertake a research stay at Joslin Diabetes Center, a diabetes research institute affiliated with Harvard Medical School, from October 2017.

In today's research environment, research collaboration has built a bridge for young scientists and professors to explore unchartered territory in scientific exploration. More can be achieved in science when people work together rather than

Photo 1: Promoting the postgraduate program in Hokkaido University's prospectus


Photo 2: Receiving the JSBBA Hokkaido Branch Student Award 2016

alone because in the end, research tends to be an interdisciplinary process requiring collaboration among colleagues within an institute or with other institutes beyond national borders. With this in mind, I am extremely grateful for the continuous support of my co-supervisors while exploring the potential of medicinal plants from Indonesia. Over the past four years, we have worked closely to discover the bioactive compounds of Indonesian indigenous plants for public health benefits using state-of-the-art technology available at the Laboratory of Food Biochemistry. This simply shows that research collaboration in any form can achieve more meaningful results for a greater cause. Our work on Indonesian medicinal plants for anti-obesity and anti-diabetes was recognized by the Japan Society of Bioscience, Biotechnology, and Agrochemistry (JSBBA) with the 2016 JSBBA Hokkaido Branch Student Award (**Photo 2**). Given the fact that Indonesian medicinal plants have been less frequently studied than other medicinal plants, I believe our efforts toward providing scientific basis to the traditional use of these natural medicines will contribute to global public health and benefit our society.

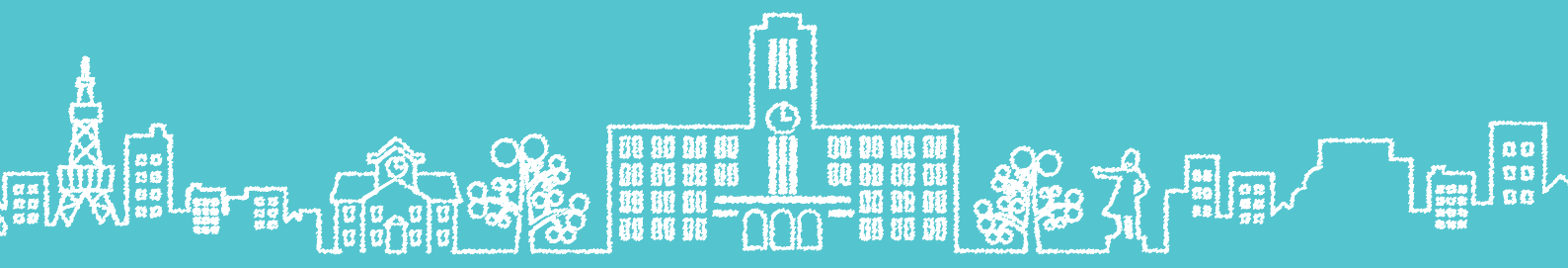
The years I have spent in the Special English Program of the Graduate School of Agriculture have been challenging yet fruitful. I have not only gained research skills from my co-supervisors and lab mates but also developed vital soft skills, such as leadership, communication, teamwork/team building/interpersonal capability and problem solving, through the Nitobe School multidisciplinary program in both Basic and Advanced Courses (**Photo 3**).

Photo 3: Sharing my experiences at the Nitobe School in Litterae Populi, Hokkaido University's official magazine

As a continuous learner, I also completed two other diploma programs, the Special Coordinated Program for Sustainability Science (StraSS) through the Center of Sustainability Sciences (CENSUS) and Environmental, Health and Society through the Center for Environmental Health Sciences (CEHS). I have made the most of my study and research time at Hokkaido University. Taking into account all of my academic accomplishments, I would like to express my profound gratitude to the Special English Program of the Graduate School of Agriculture for all of the opportunities that have enabled me to learn and grow. ありがとうございます。 (Laboratory of Food Biochemistry)

A chandelier of the entrance hall（May 26, 2008）; photo by Prof. Dr. YOKOTA Atsushi
Photo data: Nikon F2, Planar T* 85 mm f/1.4, Provia 100F

Data of the English Program



Name List of Graduates and Students Presently Enrolled in the Program

1st period (1997.10–2002.9) Name (Gender, entrance date, MC and/or DC)	
Indonesia	Sehat Jaya Tuah (m 1998.10 DC)
	Subeki (m 1999.10 M & D)
	Achmad Dinoto (m 2001.10 M & D)
	Nocianitri Komang Ayu (f 1998.10 M)
	Henny Hoo (f 2000.10 M)
Australia	Bartlem Derek Graham (m 1997.10 M & D)
Netherlands	Van Werven Folkert Jacobus (m 2001.10 M)
South Korea	Sang-Ho Baik (m 白 桑好 2001.10 D)
	Lee Jin-Ha (f 李 鎭河 1998.10 D)
	Son Mee (f 孫 美 1997.10 M & D)
	Sun Park (m 朴 善 1999.10 D)
	Young-Min Kim (m 金 泳珉 2000.10 M & D)
Thailand	Jumpen Onthong (m 1997.10 D)
	Chanida Hansawasdi (f 1997.10 D)
	Akarat Suksomcheep (m 1998.10 D)
	Kaewprasert Sarunya (f 1997.10 M & D)
	Rutatip Suriya (m 1997.10 M & D)
	Pholnukulkit Pimara (f 1998.10 M & D)
	Asvarujanon Patchana (f 2001.10 D)
	Monrawee Yanbuaban (f 2000.10 M & D)
	Jintanart Wongchawalit (f 2001.10 M & D)
Taiwan	Tsung-Hsien Liu (m 劉 宗憲 2000.10 M)
China	Yang Qing (f 楊 青 1997.10 D)
	Hu Ronggui (f 胡 栄桂 1998.10 D)
	Xi Quan Gao (m 高 夕全 2000.10 D)
	Ren Shukun (f 任 淑坤 1999.10 M & D)
	Wang Yi (m 王 一 1999.10 M & D)
	He Guochun (f 何 国春 1999.10 M & D)
	Xu Hong (f 徐 虹 2000.10 M & D)
	Wen Yaolin (m 温 堯林 2001.10 M & D)
	Peng Qingrui (f 彭 慶瑞 2001.10 M)
Nepal	Woli Krishna Prasad (m 1998.10 M & D)
	Bhandari Megh Raj (m 2001.10 D)
Hungary	Peter Kurdi (m 1997.10 D)
Bangladesh	Parvin Begum (f 1998.10 D)
	Hasna Hena Begum (f 1998.10 D)
	Islam Md.Tofazzal (m 1997.10 M & D)
	Afsana Kaosar (f 2000.10 D)
	Naser Habib Mohammad (m 2001.10 M & D)
	Khan Fahima (f 1997.10 M)
Philippines	Mirasol F. Pampolino (f 1997.10 D)
	Evelyn Banzuela Elegado (f 2000.10 M & D)
	Talan Romel Soliveres (m 1998.10 M)
	Sales Marites Ayagan (f 1999.10 M)
Belgium	Lambein Ingrid Yuan-Chi Diana (f 1998.10 M & D)
Malaysia	Lulie Joshua Melling (f 2002.4 D)
Myanmar	Than Than Win (f 1998.10 M & D)
Mongolia	Enkhbayar Purevjav (m 1999.10 M & D)

2nd period (2002.10–2007.3) Name (Gender, entrance date, MC and/or DC)	
United States	Salzer Sarah Jawe (f 2002.10 M)
India	Abhinandan Deora (m 2002.10 D)
Indonesia	Gunam Ida Bagus Wayan (m 2003.4 D)
	Irnayuli Rosaleida Sitepu (f 2004.4 D)
	Kusnadi Yuyus (m 2002.10 M & D)
	Leily Tjandrawaskitasari (f 2003.4 M & D)
	Afrida (f 2004.10 M & D)
	Hendra Phebe (f 2006.10 D)
	Maria Sugiharti (f 2006.10 M & D)
	Maria Dewi Puspitasari (f 2006.10 M & D)
Uganda	Ongol Martin Patrick (m 2003.10 M & D)
Egypt	Elkhateeb Ahmed Mohamed (m 2003.10 M & D)
El Salvador	Valdizon Garcia Coralia Valentina (f 2006.4 M)
Ghana	Albert Asante (m 2003.4 M & D)
South Korea	Nam Kyong-Hee (f 南 京希 2002.10 M & D)
	An Gi-Hong (m 安 起弘 2005.4 D)
	Lee Jae-Sung (m 李 載星 2004.10 M & D)
	Min-Sun Kang (f 姜 玟先 2004.10 M & D)
	Cho Min-Jung (f 2007.10 M)
Sri Lanka	Bandara Saratchandra Senarath (m 2006.10 M & D)
Thailand	Ashara Pengnoo (f 2002.10 D)
	Saranpuetti Chayaporn (f 2003.10 D)
	Nilubon Jong-Anurakkun (f 2002.10 M & D)
	Pirapatdit Sooksan (m 2003.10 M & D)
	Thawornkuno Charin (m 2006.10 D)
China	Kong Fanjiang (m 孔 凡江 2003.10 D)
	Su Youbo (m 蘇 友波 2004.4 D)
	Mu Zhijian (m 木 志堅 2002.10 M & D)
	Li Liyuan (f 李 立源 2002.10 M & D)
	Li Peng (m 李 鵬 2003.4 M & D)
	Zhou Keqin (f 周 克琴 2003.10 M & D)
	Chen Zheng (m 陳 正 2005.10 D)
	Li Ying (f 李 莹 2007.10 M & D)
	Jin Tao (m 金 涛 2006.10 M & D)
Bangladesh	Sufian Md.Kaosar Niaz Bin (m 2003.10 M & D)
	Rahman Atiqur (m 2005.10 M & D)
	Islam K.B.M. Saiful (m 2006.10 M & D)
	Sarmin Sultana (f 2004.10 M)
Philippines	Ravelo Gerald Bareng (m 2003.10 D)
	Sanchez Edmundo, Jr. Lonjas (m 2005.10 M & D)
	Planta Jose Ramon Golingay (m 2003.10 M)
Brazil	Cleide Aparecida Bomfeti (f 2004.10 M)
	Marques Tatiana Milena (f 2006.4 M)
Russia	Desyatkin Alexey Romanovich (m 2005 10 M & D)

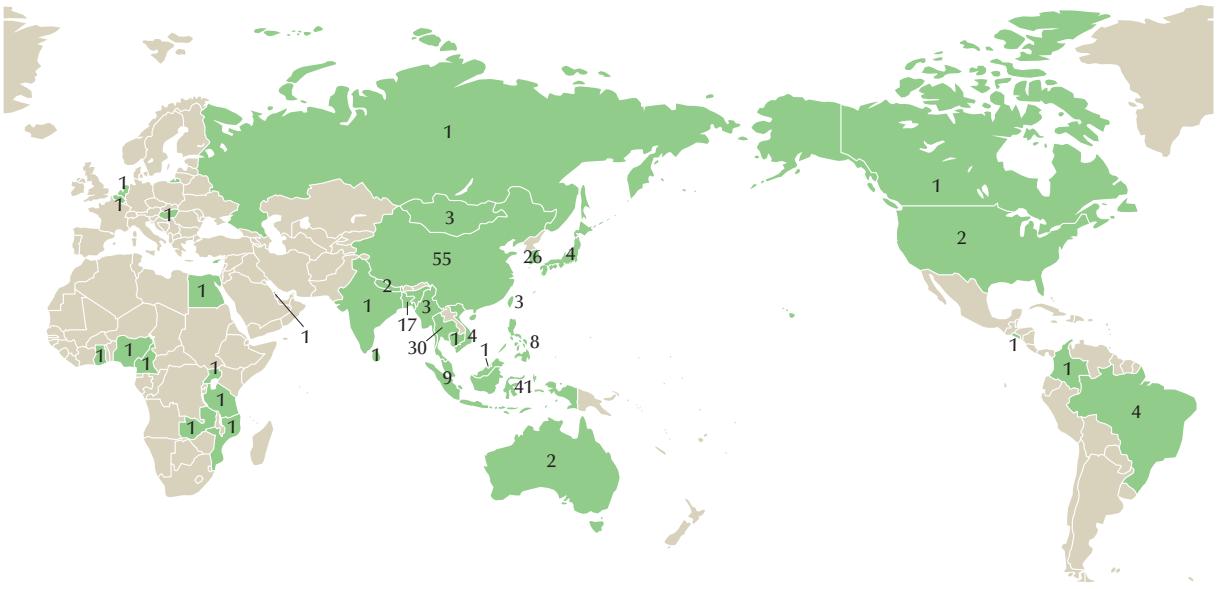
3rd period (2007.4–2013.3) Name (Gender, entrance date, MC and/or DC)	
Indonesia	Indun Dewi Puspita (f 2009.10 D)
	Utami Ni Wayan Arya (f 2008.10 M & D)
	Adji Fengky Florante (m 2011.4 D)
	Arsiningtyas Ines Septi (f 2010.10 M & D)
	Limin Atfritedy (m 2010.10 M & D)
	Kurnia Yudistira Wahyu (m 2011.10 M & D)
	Pratiwi Putri (f 2012.10 M & D)
	Anastasia Setiawan (f 2008.10 M)
	Alawiyah Syarifah (f 2009.4 M)
	Bardant Teuku Beuna (m 2009.10 M)
	Sidharta Mutiara Laksminingrum (f 2009.10 M)
	Suwendi Erwin (m 2009.10 M)
	Tampubolon Biatna Dulbert (m 2010.10 M)
	Kurniawan Stella Kristanti (f 2011.10 M)
	Faulina Sarah Asih (f 2012.10 M)
Canada	Sherman Kevin Earl (m 2012.10 M)
Cameroon	Ndindeng Sali Atanga (m 2007.10 D)
South Korea	Kang Hee Kwon (m 2007.10 D)
	Kim Dae Hoon (m 2007.10 M & D)
	Yun Hea-Yeon (f 2007.10 M & D)
	Choi Sun Hee (f 2008.10 M & D)
	Song Kyung-Mo (f 2008.10 M & D)
	Kim Dongyeop (m 2010.10 D)
	Lee Ja-Young (f 李 慈英 2009.10 M & D)
	Jeon Eunjin (f 田 恩眞 2012.10 M & D)
	Joe Ga-Hyun (f 2012.10 M & D)
	Son Jung Su (m 2010.10 M)
	Bak Gyeryeong (f 2012.10 M)
Zambia	Mukumbuta Ikabongo (m 2012.10 M & D)
Thailand	Ngiwsara Lukana (f 2007.10 M & D)
	Sahasakul Yuraporn (f 2007.10 M & D)
	Panchita Phuwamongkolwiwat (f 2009.10 M & D)
	Maneesan Janjira (f 2009.10 M & D)
	Phoonsawat Worrawalan (f 2011.10 D)
	Jaito Nongluck (f 2012.10 D)
	Sornkom Worawan (f 2011.10 M & D)
	Tawthep Sarinya (f 2012.10 M & D)
	Thitichotrattana Kornkanok (f 2008.4 M)
Taiwan	Chang Hsin-Yu (f 張 心昱 2008.10 M)
Tanzania	Balua Veronica Raphael (f 2009.4 M)
China	Jiang Rui (f 2008.10 D)
	Cheng Ying (m 2007.10 M & D)
	Li Daxin (m 2007.10 M & D)
	Chen Wen Ya (f 2009.10 D)
	Lin Jian (m 2010.10 D)
	Sha Zhi Min (f 沙 之敏 2010.10 D)
	Wang Mengcen (m 2010.10 D)
	Li Li (f 2011.10 D)
	Wang Chunying (f 2011.10 D)
	Li Xi (f 2010.10 M & D)
	Li Mengjie (f 李 夢婕 2012.10 D)
	Nie Yanxia (f 聂 彦霞 2012.10 D)
	Wang Sheliang (m 汪 社亮 2012.10 D)
	Cheng Ningning (f 程 宁宁 2012.10 M & D)
	Liao Julan (f 廖 挙蘭 2012.10 M)
	Luo Weifeng (m 雒 伟锋 2012.10- M & D)
	Ma Min (f 马 旻 2012.10 M & D)
	Duan Junlei (m 段 軍磊 2012.10 M)
	Wang Lei (m 2011.10 M & D)
	You Xiangyu (m 2011.10 M & D)
Brazil	Tokuhisa Dai (m 2007.4 D)
Bangladesh	Diba Farzana (f 2008.4 D)
	Quadir Quazi Forhad (m 2008.4 D)
	Bhuiyan Mohammad Nazrul Islam (m 2010.10 M & D)
Philippines	Mopera Lotis Escobin (f 2009.4 D)
Malaysia	Tang Sui-Yan (f 2007.10 D)
	Noorul Amin Arshana Nor (f 2009.4 M & D)
	Lau Sharon Yu Ling (f 2012.4 D)
	Abdul Latif Bin Noh (m 2010.10 M & D)
	Boey Andrew Kah Wang (m 2009.10 M)
Myanmar	Khine Swe Nyunt (f 2009.10 M & D)

4th period (2013.4-as of 2017.9) Name (Gender, entrance date, MC and/or DC)	
United States	Squires Theodore Edgar (m 2015.10 M)
Indonesia	Kartikawati Rina (f 2013.10 M)
	Lahrita Lucy (f 2013.10- M & D)
	Sarwono Albertus Eka Yudistira (m 2013.10- M & D)
	Atunnisa Rifa (f 2014.10- M & D)
	Laksana Anugerah Adhi (m 2014.10- M & D)
	Nur Wakhid (m 2014.4 M)
	Tachrim Zetryana Puteri (f 2014.4- M & D)
	Vecky Dwi Kuswandora (m 2015.4 M)
	Rianto Putri Oktariani (f 2015.10 M)
	Anna Hairani (f 2013.10 D)
	Marpaung Fiolenta (f 2013.10 D)
	Syibli Muhammad Akhid (m 2016.4- D)
	Ersalena Vera Fitriya (f 2017.4- M)
Australia	Burns Glenn Robert (m 2013.10 D)
South Korea	Kam Dong Gyu (m 甘 炯圭 2013.10 M)
	Kim Yong Rae (m 2014.10- M & D)
	Lee Dong Geun (m 2016.10- D)
	Lee Yeonmi (f 李 娟美 2013.10 D)
	Oh Seong Jin (m 2014.10 D)
Cyprus	Agathokleous Evgenios (m 2014.10 D)
Colombia	Ospina Alarcon Ricardo (m 2013.10- M & D)
Thailand	Auiewiriyanukul Waraporn (f 2013.10- M & D)
	Klahan Patcharapa (f 2013.10- M & D)
	Pinyo Jukkrapong (m 2015.10 M)
	Pakkang Nutthira (f 2016.10- M)
	Siriwaseree Jeeraprapa (f 2016.10- M)
	Trakooncharoenvit Aphichat (2016.10- M)
	Udompant Kannapat (2016.10- M)
Taiwan	Lu Iwei (f 2016.4- M)
China	Chu Qingnan (m 褚 清南 2013.4 D)
	Wen Yongteng (m 温 永腾 2013.10 M)
	Zhang Xiaomeng (f 2013.10 D)
	Wang Hao (m 2014.10- M & D)
	Fu Yang (f 2015.4 M)
	Li Jianye (m 2015.4 M)
	Chen Yulin (f 陳 于琳 2015.10 M)
	Lin Meijuan (f 林 美娟 2015.10 M)
	Duan Jie (f 2016.10- M)
	Tong Xin (f 2016.10- M)
	Wang Yannan (f 2016.10- M)
	Chen Jian (m 陳 剑 2016.4- D)
	Gao Yu (m 2016.10- D)
	Ning Zigong (m 宁 兹功 2014.4 D)
	Shi Cong (m 2014.10 D)
	Li Tingting (f 2017.4- M)
	Duan Yu (f 2017.4- M)
	Tu Zhihao (m 2017.4- D)
Nigeria	Iweka Patricia Nneka (f 2014.10- M & D)
Japan	Hiroki Mizumoto (m 水本寛基 2015.4 D)
	Isoda Reika (f 礒田玲華 2014.4- D)
	Iwasaki Shinya (m 岩崎真也 2014.4 D)
	Kikuchi Namiki (m 菊地波輝 2016.4- D)
Bangladesh	Ali Md Momotaz (m 2015.10- D)
	Nousheen Parven (f 2015.10- D)
	Rahman Md Mostafizar (m 2015.4- D)
	Talukder Md Abdus Shabur (m 2015.10- D)
Brazil	Ohara Andre (m 2015.4- D)
Brunei	Haji Maidin Nur Azimatul Quddsyiah (f 2016.10-M)
Vietnam	Vu Thi Kim Chi (f 2015.10 M)
	Nguyen Tam Thanh (m 2016.10- D)
	Nguyen Thi Thuy Hang (f 2016.10- D)
	Nguyen Tinh Thanh (m 2017.10- D)
Malaysia	Kiew Frankie (m 2013.10- M & D)
	Sitty Nur Syafa Binti Bakri (f 2015.4- D)
	Wong Guan Xhuan (m 2015.10- D)
Myanmar	Phyo Han Thwin (m 2016.10- M)
	Htun Myint (m 2015.4- D)
Mozambique	Cambaza Edgar Manuel (m 2016.4- D)
Mongolia	Mendbayar Dolgormaa (f 2015.10- M)

Total Number of Graduates and Students Presently Enrolled in the Program

		1st period	2nd period	3rd period	4th period	Sum of each country
Asia	Japan (**JP**)				4	4
	India (**IN**)		1			1
	Indonesia (**ID**)	5	8	15	13	41
	South Korea (**KR**)	5	5	11	5	26
	Cambodia (**KH**)				1	1
	Sri Lanka (**LK**)		1			1
	Thailand (**TH**)	9	5	9	7	30
	Taiwan (**TW**)	1		1	1	3
	China (**CN**)	9	9	20	17	55
	Nepal (**NP**)	2				2
	Bangladesh (**BD**)	6	4	3	4	17
	Philippines (**PH**)	4	3	1		8
	Vietnam (**VN**)				4	4
	Brunei (**BN**)				1	1
	Malaysia (**MY**)	1		5	3	9
	Myanmar (**MM**)	1		1	1	3
	Mongolia (**MN**)	1			1	2
	Sum	**44**	**36**	**66**	**62**	**208**
Africa	Uganda (**UG**)		1			1
	Egypt (**EG**)		1			1
	Ghana (**GH**)		1			1
	Cameroon (**CM**)			1		1
	Zambia (**ZM**)			1		1
	Tanzania (**TZ**)			1		1
	Nigeria (**NG**)				1	1
	Bahrain (**BH**)				1	1
	Mozambique (**MZ**)				1	1
	Sum	**0**	**3**	**3**	**3**	**9**
Oceania	Australia (**AU**)	1			1	2
	Sum	**1**	**0**	**0**	**1**	**2**
North America	United States (**US**)		1		1	2
	Canada (**CA**)			1		1
	Sum	**0**	**1**	**1**	**1**	**3**
Central and South America	El Salvador (**SV**)		1			1
	Colombia (**CO**)				1	1
	Brazil (**BR**)		2	1	1	4
	Sum	**0**	**3**	**1**	**2**	**6**
Europe	Netherlands (**NL**)	1				1
	Cyprus (**CY**)				1	1
	Hungary (**HU**)	1				1
	Belgium (**BE**)	1				1
	Russia (**RU**)		1			1
	Sum	**3**	**1**	**0**	**1**	**5**
	Sub total	**48**	**44**	**71**	**70**	**233**

1st period: 1997.10–2002.9 (Five years)
2nd period: 2002.10–2007.3 (Four and a half years)
3rd period: 2007.4–2013.3 (Six years)
4th period: 2013.4–2017.9 (Four and a half years)



2017 Curriculum of the English Program (Master's Course)

Category (分類)		Subject (授業科目)		Credits (単位)	Semester (開講期) I Apr.~May	II June~July	III Oct.~Nov.	IV Dec.~Feb.	1~2年次通年 (ALL)	Instructor (責任担当)
General Compulsory Elective Subjects (農学院共通選択必修科目)										
		Economics and Ecology in Population and Food System	人口・食料学	2			●			Y. Saito 齋藤 (陽)
		Mitigation of Global Warming Effect	温暖化影響論	2			●	●		Hatano 波多野
Compulsory and Compulsory Elective Subjects of Each Division (各専攻の必修科目及び選択必修科目)										
Div. of Bio-Systemns Sustainability (共生基盤学)	Compulsory Subjects (必修科目)	Seminar on Bio-systems Sustainability I	共生基盤学演習 I	4					●	Supervisor 専攻全教員
		Study on Bio-systems Sustainability I	共生基盤学研究 I	8					●	Supervisor 専攻全教員
	Compulsory Elective Subjects (選択必修科目)	Safety and Function of Food	食品安全・機能性開発学	1	●					Mori 森
		Seminar on Safety and Function of Food	食品安全・機能性開発学演習	1	●					Mori 森
		Biomass Conversion	バイオマス転換学	1			●			Fukushi 福士
		Seminar on Biomass Conversion	バイオマス転換学演習	1			●			Fukushi 福士
Div. of Agrobiology (生物資源科学)	Compulsory Subjects (必修科目)	Seminar on Agrobiology I	生物資源科学演習 I	4					●	Supervisor 専攻全教員
		Study on Agrobiology I	生物資源科学研究 I	8					●	Supervisor 専攻全教員
	Compulsory Elective Subjects (選択必修科目)	Biotechnology	応用分子生物学総論	1			●			Kimura 木村
		Seminar on Biotechnology	応用分子生物学演習	1			●			Kimura 木村
		Botany and Agronomy	作物生産生物学総論	1		●				N. Kondo 近藤 (則)
		Seminar on Botany and Agronomy	作物生産生物学総論演習	1		●				N. Kondo 近藤 (則)
		General Biology for Animal Production	家畜生産生物学総論	1	●					Y. Kobayashi 小林 (泰)
		Seminar on General Biology for Animal Production	家畜生産生物学総論演習	1	●					Y. Kobayashi 小林 (泰)
Div. of Applied Bioscience (応用生物科学)	Compulsory Subjects (必修科目)	Seminar on Applied Bioscience I	応用生物科学演習 I	4					●	Supervisor 専攻全教員
		Study on Applied Bioscience I	応用生物科学研究 I	8					●	Supervisor 専攻全教員
	Compulsory Elective Subjects (選択必修科目)	Advanced Review of Food Science	食資源科学総論	1	●					Kawabata 川端
		Seminar on Advanced Food Science	食資源科学演習	1	●					Kawabata 川端
		Organic Chemistry for Life Science	生命有機化学特論	1		●				Ubukata 生方
		Seminar on Organic Chemistry for Life Science	生命有機化学特論演習	1		●				Ubukata 生方
		Molecular Microbiology	分子微生物科学	1		●				Wada 和田 他
		Seminar on Molecular Microbiology	分子微生物科学演習	1		●				Wada 和田 他
Div. of Environmental Resources (環境資源学)	Compulsory Subjects (必修科目)	Seminar on Environmental Resources I	環境資源学演習 I	4					●	Supervisor 専攻全教員
		Study on Environmental Resources I	環境資源学研究 I	8					●	Supervisor 専攻全教員
	Compulsory Elective Subjects (選択必修科目)	Regional Environment	地域環境学	1	●					Hatano 波多野
		Seminar on Regional Environment	地域環境学演習	1	●					Hatano 波多野
		Advanced Bioproduction Engineering I	生物生産工学特論 I	1	●					Iwabuchi 岩渕
		Advanced Bioproduction Engineering II	生物生産工学特論 II	1			●			Iwabuchi 岩渕
General Elective Subjects (農学院共通選択科目)										
	Group of Bioresources (生物資源系)	Plant Nutritional Ecology	植物栄養生態学	1				●		Watanabe 渡部
		Seminar on Plant Nutritional Ecology	植物栄養生態学演習	1				●		Watanabe 渡部
		Advanced Botany and Agronomy	作物生産生物学特論	1			●			N. Kondo 近藤 (則)
		Seminar on Advanced Botany and Agronomy	作物生産生物学特論演習	1			●			N. Kondo 近藤 (則)
		Applied Animal Ecology	応用動物生態学	2			●	●		Araki 荒木
	Group of Animal Science (畜産科学系)	Advanced Animal Breeding and Reproduction	家畜改良増殖学特論	1		●				M. Takahashi 高橋 (昌) 他
		Seminar on Animal Breeding and Reproduction	家畜改良増殖学特論演習	1		●				M. Takahashi 高橋 (昌) 他
		Advanced Animal Nutrition	家畜栄養学特論	1			●			Y. Kobayashi 小林 (泰)
		Seminar on Advanced Animal Nutrition	家畜栄養学特論演習	1			●			Y. Kobayashi 小林 (泰)
	Group of Bioproduction Engineering (生物生産工学系)	Comprehensive Technical Management for Foods	食品総合技術監理学	2	●					Koseki 小関
		Post-harvest Technology	ポストハーベスト工学特論	1	●					Kawamura 川村
	Group of Food Resource Economics (共生食料資源経済学系)	Agricultural and rural development	開発経済学特論	1			●			Aizaki 合崎
		Special Seminar on Development Economics	開発経済学特論演習	1			●			Aizaki 合崎
	Group of Rigional Environment (地域環境学系)	Environmental Informatics for Field Sciences	フィールド環境情報学	1		●				Hirano 平野
		Data analysis for Field Science	フィールド環境情報学演習	1		●				Kuramochi 倉持
		Advanced Lectures on Wetland	湿地特論	1			●			Inoue 井上
		Advanced Regional Environment	地域環境学特論	1				●		J. Kashiwagi 柏木 (淳)
		Advanced Seminar on Regional Environment	地域環境学特別演習	1				●		J. Kashiwagi 柏木 (淳)

Category（分類）		Subject（授業科目）		Credits（単位）	Semester（開講期）					Instructor（責任担当）
					Ⅰ Apr.～May	Ⅱ June～July	Ⅲ Oct.～Nov.	Ⅳ Dec.～Feb.	1~2年次通年（ALL）	
	Group of Forest Resources & Landscape Management（森林資源・緑地管理系）	Ecology of Forest Resources	森林資源生態学	1	●					Koike 小池
		Seminar for Forest Resources Ecology	森林資源生態学演習	1		●				Koike 小池
	Group of Applied Biology（応用生命系）	Advanced Lecture on Applied Molecular Biology	応用分子生物学特論	1	●					Onouchi 尾之内
		Advanced Seminar on Applied Molecular Biology	応用分子生物学特論演習	1	●					Onouchi 尾之内
	Group of Biological Chemistry（生命化学系）	Chemical Biology	化学生物学	1		●				K. Takahashi 高橋（公）他
		Seminar on Chemical Biology	化学生物学演習	1		●				K. Takahashi 高橋（公）他
		Advanced Bio-signal Chemistry	生物シグナル化学	1	●					Hashidoko 橋床
		Advanced Analytical Biochemistry	生体分子解析学	1	●					Hashimoto 橋本 他
		Gastrointestinal Microbiology	胃腸内圏微生物学	1		●				Yokota 横田
		Seminar on Gastrointestinal Microbiology	胃腸内圏微生物学演習	1		●				Yokota 横田
		Molecular Plant-Microbe Interactions	植物圏微生物学	1			●			Sone 曾根
		Seminar on Molecular Plant-Microbe Interactions	植物圏微生物学演習	1			●			Sone 曾根
		Molecular Environmental Microbiology	基礎環境微生物学	1			●			Tamura 田村
		Seminar on Molecular Environmental Microbiology	基礎環境微生物学演習	1			●			Tamura 田村
		Advanced Applied Microbiology	応用菌学特論	1			●			Sone 曾根 他
		Seminar on Applied Microbiology	応用菌学特論演習	1			●			Sone 曾根 他
		Nutritional Biochemistry	食品栄養学特論	1				●		Hara 原 他
		Seminar on Nutritional Biochemistry	食品栄養学演習	1				●		Hara 原 他
		Advanced Food Biochemistry	食品機能化学特論	1			●			Kawabata 川端 他
		Seminar on Advanced Food Biochemistry	食品機能化学演習	1			●			Kawabata 川端 他

Note

1. A total of at least 30 credits are required to complete a Master's Course (at least 4 credits from General Compulsory Elective Subjects, 12 credits from Compulsory Subjects of the relevant division and at least 2 credits from Compulsory Elective Subjects of the relevant division).
2. Students may only acquire credits from other divisions, research faculties or graduate schools (including Inter-Graduate School Classes) in cases in which their supervisors provide permission to do so.
3. Students may only acquire credits from the School of Agriculture or other faculties (undergraduate) in cases in which their supervisors provide permission to do so. However, only 4 credits will be permitted to complete the requirements (30 credits).

2017 Curriculum of the English Program (Doctoral Course)

Subject（授業科目）				Credits（単位）	Semester（開講期）					Instructor（責任担当）
					Ⅰ Apr.～May	Ⅱ June～July	Ⅲ Oct.～Nov.	Ⅳ Dec.～Feb.	1~3年次通年（ALL）	
Div. of Bio-Systemns Sustainability（共生基盤学）	Compulsory Subjects（必修科目）	Seminar on Bio-systems Sustainability II	共生基盤学演習Ⅱ	2					●	Supervisor 専攻全教員
		Study on Bio-systems Sustainability II	共生基盤学研究Ⅱ	10					●	Supervisor 専攻全教員
Div. of Agrobiology（生物資源科学）	Compulsory Subjects（必修科目）	Seminar on Agrobiology II	生物資源科学演習Ⅱ	2					●	Supervisor 専攻全教員
		Study on Agrobiology II	生物資源科学研究Ⅱ	10					●	Supervisor 専攻全教員
Div. of Applied Bioscience（応用生物科学）	Compulsory Subjects（必修科目）	Seminar on Applied Bioscience II	応用生物科学演習Ⅱ	2					●	Supervisor 専攻全教員
		Study on Applied Bioscience II	応用生物科学研究Ⅱ	10					●	Supervisor 専攻全教員
Div. of Environmental Resources（環境資源学）	Compulsory Subjects（必修科目）	Seminar on Environmental Resources II	環境資源学演習Ⅱ	2					●	Supervisor 専攻全教員
		Study on Environmental Resources II	環境資源学研究Ⅱ	10					●	Supervisor 専攻全教員

Note

1. A total of at least 12 credits from the Compulsory Subjects are required to complete a Doctoral Course.

List of Master's Degrees Awarded and Thesis Titles

Student's Name	Thesis Title	Lab. No.
1999 (H11)		
Kaewprasert Sarunya (サランヤー，ケウプラサート)	Nutritional study of cyclodextrain, and biopolymer produced by microorganism in rats (シクロデキストリンと微生物産生バイオポリマーのラットにおける栄養学的研究)	3
Rutatip Suriya (スリヤー，ルタティープ)	Expression and physiological role of activin A in intestinal epithelial cells (小腸上皮細胞におけるアクチビン A の発現と機能に関する研究)	4
Islam Md. Tofazzal (エムディ，トファザル，イスラム)	Survey of physiologically active compoounds in traditonal medicinal plants guided by bioassay using zoospore of phytopathogenic *Aphanomyces Cochlioides* Drechsler (ホウレンソウ根腐れ病菌の遊走子を用いた生物検定による薬用植物中の生理活性物質の探索)	9
Khan Fahima (カン ファヒマ)	Structural and functional studies of sugar beet α-glucosidase (テンサイ α-グルコシダーゼの構造と機能に関する研究)	7
Son Mee (ソン，ミー)	Intramolecular transfer reaction in honeybee α-glucosidase I (ミツバチ α-グルコシダーゼ I による分子内糖転移反応)	6
Bartlem Derek Graham (デレック，バートレム，グラハム)	Characterisation of mto-2an *Arabidopsis* mutant with altered methionine and thereonine accumulation (メチオニンとスレオニンの蓄積が変化したシロイヌナズナ mto2 変異株の解析)	10
2000 (H12)		
Pholnukulkit Pimara (ピマラ，ポヌクルキット)	Studies on the neuroendocrine regulation of apolipoprotein A-IV gene in intsteinal epithelial cell line Caco-2 (腸上皮細胞株 Caco-2 におけるアポリポタンパク A-IV 遺伝子発現の神経・内分泌系による調節に関する研究)	4
Woli Krishna Prasad (クリスナ，プラサド オリ)	Impact of nitrogen balance in land use system on stream water quality in the Southern Hokkaido, Japan (北海道南部における河川水質に及ぼす土地利用システムの窒素収支の影響)	2
Lambein Ingrid Yuan-Chi Diana (ランバイン，イングリッド ユアンチ ディアナ)	Study of the regulation of methionine biosynthesis in *Arabidopsis* (シロイヌナズナにおけるメチオニン生合成の制御に関する研究)	10
Than Than Win (タン，タン ウイン)	Studies on the synthesis of a novel oligosaccharide using β-galactosidase from *Bacillus circulans* (*Bacillus circulans* 由来 β-Galactosidase を用いた新規オリゴ糖合成に関する研究)	7
Nocianitri Komang Ayu (コマン アユ ノチアニテリ)	Responses to choline-deficiency on hepatic antioksidant enzyme aktivities in rats (コリン欠乏食摂取ラットにおける肝抗酸化酵素活性の変動)	3
Talan Romel Soliveres (ロメール ソリベーレス タレン)	Chemical studied on antifungal compounds from the roots of wild pumpkin (*Cucurbita ficifolia* Bouche) (野生カボチャ (*Cucurbita ficifolia* Bouche) 根の抗菌物質に関する化学的研究)	8
2001 (H13)		
Subeki (ス ベ キ) 1968 年 4 月 9 日生	Chemical studies on medicinal plants in Kalimantan (カリマンタン産薬用植物の化学的研究)	8
He Guochun 何　国春 (ハーゴアツオン)	Effects of dietary addition of cystine on liver antioxidant enzymes and serum enzymes in rats (シスチン食摂取ラットにおける肝抗酸化酵素と血中酵素への影響)	8
Wang Yi 王　　一 (ワン イ)	Studies on α-glucosidase from alkalophilic *Bacillus* sp. (アルカリ *Bacillus* sp. 由来 α-Glucosidase に関する研究)	7
Ren Shukun 任　淑坤 (レン シュクン)	Screening of microorganisms producing protease capable of releasing cadmium from *Scallop Hepatopancreas* (ホタテ・ウロからのカドミニウム除去活性を持つタンパク分解酵素の微生物からの探索)	5
Purevjav Enkhbayar (プレブジャブ エンヘバヤル)	Study on chlorophyll fluorescence induction and plastoquinone pool reduction in higher plants (高等植物におけるクロロフィル蛍光誘導とプラストキノンプールの還元に関する研究)	1
Sales Marites Ayagan (サレス マリテス アヤガン)	Molecular cloning of RAD54 and MRE11 homologs in the rice blast fungus (*Magnaporthe grisea*) (イネいもち病菌 (*Magnaporthe grisea*) における RAD54 及び MRE11 相同遺伝子のクローニング)	5
2002 (H14)		
Young-Min Kim 金　泳珉 (キム ヨンミン)	Enzymatic synthesis of alkyl α-D-2-deoxyglucosides by organic solvent resistant α-glucosidase (有機溶媒耐性の α-グルコシダーゼによるアルキル α-D-2-デオキシグルコシドの酵素合成)	6
Monrawee Yanbuaban (モンラウィ ヤンブァバン)	Eco-physiology of sago (*Metroxylon Sagu* Rottb.) grown in tropical peat swamp forest (熱帯泥炭林に生育するサゴヤシの生理生態)	1
Xu Hong 徐　　虹 (シー ホン)	The histidine-excess and D-penicillamine diets decrease the hepatic copper content and ameliorate hepatic injury in Long-Evans Cinnamon (LEC) Rats (LEC ラットにヒスチジン食，D-ペニシラミン食の投与は肝臓銅の減少と肝障害を改善する)	3
Evelyn Banzuela Elegad (エベリン バンズエラ エレガド)	Cloning and characterization of recombinational repair genes in the rice blast fungus *Magnaporthe grisea* (いもち病菌，*Magnaporthe grisea*，の組換え修復に関与する遺伝子の単離とその特性に関する研究)	5
Henny Hoo (ヘニー ホー)	Chemical aspects of plant-microorganism interactions (植物-微生物相互作用に関する化学的研究)	9
Tsung-Hsien Liu 劉　宗憲 (リュウ ソウケン)	Cloning, over expression, and application of the beta-mannanase from *Bacillus subtilis* I1-3 (*Bacillus subtilis* I1-3 株による beta-mannanase 遺伝子のクローニング発現および応用に関する研究)	5

Student's Name	Thesis Title	Lab. No.
2003 (H15)		
Achmad Dinoto (アハマド ディノト)	Study of probiotic and prebiotic administration in animal (動物におけるプロバイオティックおよびプレバイオティック投与に関する研究)	11
Jintanart Wongchawalit (ジンタナート ウォンシャワリット)	Purifications and general properties of Japanese honeybee α-glucosidases (日本ミツバチ α-グルコシダーゼの精製と性質)	6
Wen Yaolin 温　堯林(ウエン ヤオ リン)	Survey of physiologically active plant secondary metabolites by using *Aphanomyces cochlioides* zoospores (*Aphanomyces cochlioides* の遊走子を用いた生理活性植物二次代謝産物の探索)	9
Habib Mohammad Naser (ハビブ モハンマド ナセル)	Comparative evaluation of greenhouse gas fluxes and global warming potentials in various crop fields of soil dressed peatland (客土した泥炭地における様々な農地からの温室効果ガスフラックスと地球温暖化ポテンシャルの比較評価)	2
Forkert Jacobus Van Werven (フォルカート ジャコブス ヴァン ウェーベン)	Study of regulation and function of AtMRD1in *Arabidopsis thaliana* (シロイヌナズナの AtMRD1 遺伝子発現の制御とその機能の研究)	10
Peng Qingrui 彭　慶瑞(ペン キン リイ)	Study on antifungal antibiotics from *Streptomyces* sp. No. 164 (*Streptomyces* sp. No. 164 が生産する抗真菌抗生物質に関する研究)	5
2004 (H16)		
Yuyus Kusnadi (ユユス クスナディ)	Studies on β-fructofuranosidase from *Arthrobacter globiformis* IFO 3062 (*Arthrobacter globiformis* IFO 3062 由来 β-fructofuranosidase に関する研究)	7
Nam Kyong-Hee 南　京希(ナン キョン ヒ)	Studies on the formation of tubers and flower buds controlled by lipoxygenase as a key enzyme (リポキシゲナーゼをキーエンザイムとする塊茎・花芽形成に関する研究)	8
Nilubon Jong-Anurakkun (ニルボン ジョン アヌラックン)	α-Glucosidase inhibitors from Chinese aloe powder and devil tree leaves (中国産アロエ粉末およびデビルツリー葉中の α-グルコシダーゼ阻害成分)	4
Mu Zhijian 木　志堅(ム ジ ジャン)	Greenhouse gas fluxes from agricultural soils in Ikushyunbetsu river catchment, central Hokkaido (幾春別川流域における農耕地土壌からの温室効果ガスフラックス)	2
Li Liyuan 李　立源(リ リ エン)	Proteome analysis of the H^+-ATPase defective mutant of *Corynebacterium glutamicum* (*Corynebacterium glutamicum* の H^+-ATPase 欠損変異株のプロテオーム解析に関する研究)	11
Sarah Salzar (サラ サルザー)	Nitrogen fixing bacterial communities associated with *Combretocarpus rotundatus* and *Xyris complanata* in a devastated tropical peatland (荒廃熱帯で泥炭に生育する *Combretocarpus rotundatus* と *Xyris complanata* における窒素固定バクテリアの菌叢)	1
2005 (H17)		
Leily Tjandrawaskitasari (レイリ チャンドラワスキタサリ)	The capability of Indonesian medicinal plants against *Plasmodium falciparum* and *Babesia Gibsoni* (インドネシア産薬用植物によるマラリア原虫及びバベシア原虫に対する効果)	8
Albert Asante (アルベーツ アサンテ)	Studies on rhizoplane bacteria from several plant families: their metabolic properties in relation to their ecochemical functional characters (多様な植物種の根面に由来した細菌群に関する研究：生態化学的視点からみた機能性に関連した代謝特性)	9
Li Peng 李　　鵬(リ ホウ)	Isolation and identification of bioactive compounds from *Lasiodiplodia theobromae* (*Lasiodiplodia theobromae* が生産する生理活性物質の単離及び構造決定)	8
Ongol Martin Patrick (オンゴル マーチン パトリック)	Development and application of probiotic yoghurt (プロビオティク・ヨーグルトの開発と応用)	5
Ahmed Mohamed Elkhateeb (アハマド ムハマド エルカティーブ)	Chemical studies on antibabesial compounds from medicinal plants (薬用植物に含まれる抗バベシア化合物に関する化学的研究)	8
Pirapatdit Sooksan (ピラパトゥディット スークサン)	Establishment of an in vitro chemotaxix model of eosinophils (好酸球遊走の in vitro モデルの確立)	4
Zhou, Keqin 周　克琴(シュウ クー チン)	Anti-fungal and plant growth promoting activities in BRF-1, a bacterium isolated from soybean roots (ダイズ根圏より単離した細菌 BRF-1 の抗糸状菌活性と植物への生長促進活性)	1
MD. Kaosar Niazbin Sufian (エムディ カオサル ニアズビン スフィアン)	Suppressive effects of food peptides on appetites (食品ペプチドによる食欲抑制作用に関する研究)	3
Jose Ramon Golingay Planta (ホセ ラモン ゴリンガイ プランタ)	Isolation of the putative phytase cDNA from germinated rice seeds and its expression in *Escherichia coli* (イネ発芽種子フィターゼ cDNA の単離および大腸菌発現)	7
2006 (H18)		
Afrida (アフリダ)	Screening of white rot fungi for biobleacing of Acacia kraft pulp (アカシアクラフトパルプのバイオブリーチングを目的とした白色腐朽菌のスクリーニング)	1
Kabg Min-sun 姜，玟先(カン ミンソン)	Aglycone specificity of *Escherichia coli* α-xylosidase investigated by transxylosylation (大腸菌 α-キシロダーゼの糖転移反応によるアグリコン特異性の解析)	6
Lee Jae-Sung 李　載星(リ チェソン)	Lymphocyte isolation with high yield and purity from rat intestine and its characterization (ラット腸管からの高収率・高純度のリンパ球分離法と分離リンパ球の特徴)	3
Sarmin Sultana (サルミン スルタナ)	Effect of soil aggregate size on CO_2, N_2O and NO production (土壌中の CO_2，N_2O，NO 生成における土壌粒団サイズの影響)	2

Student's Name	Thesis Title	Lab. No.
Cleide Aparecide Bomfeti (クレイデ アパレシダ ボンフェチ)	Phytotoxin production by the phytopathogen *Aphanomyces cochlioides* (植物病原菌 *Aphanomyces cochlioides* のファイトトキシン産生に関する研究)	9
2007(H19)		
Li Ying 李　　莹(リ イン)	Study on the role of protein phosphatase type 1 using tautomycetin (トウトマイセチンを用いたプロテインホスファターゼ 1 型の役割に関する研究)	12
Atiqur Rahaman (アティクル ラーマン)	Isolation and characterization of chemical components accumulated in the roots of a Kalimantan rice variety under N-starved conditions (窒素飢餓状態におかれたカリマンタン・イネ根に蓄積する化学物質の単離検索)	9
Edmundo L. Sanchez Jr. (エドムンド L サンチェス Jr)	Studies on the Inago 1, Inago 2, and Swarm retrotransposons of the rice blast fungus (稲いもち病菌のレトロトランスポゾン Inago 1, Inago 2, Swarm に関する研究)	5
Alexey Romanovich Desyatkin (アレクセイ ロマノビッチ デスヤトキン)	Comparison of greenhouse gas emission and carbon budget from grasslands in Southern Hokkaido and Central Yakutia (北海道南部と中央ヤクーツクの草地における温室効果ガスの放出と炭素収支の比較)	2
Cho Min-Jung 趙　旼禎(チョ ミンジョン)	α-Amylase isoforms from kidney bean leaves (インゲンマメ緑葉の α-アミラーゼアイソフォーム)	6
2008(H20)		
Maria Sugiharti (マリア スギハルティ)	Isolation of a tetravirus from *Setothosea asigna* larvae infected with an epidemic disease in oil palm plantation in South Sumatra, Indonesia (油ヤシ農場(インドネシア) で発生した伝染病イラガ幼虫からのテトラウイルスの分離)	14
Maria Gunawan-Puteri (マリア グナワンプトリ)	Search for α-glucosidase inhibitors from Indonesian medicinal plants (インドネシア産薬用植物中の α-グルコシダーゼ阻害成分の探索)	4
Bandara Saratchandra Senarath (バンダラ セナラス サランチャンドラ)	Antitumor active compounds from cladophylls of *Asparagus officinalis* L. (アスパラガス擬葉中の抗腫瘍活性化合物について)	8
Jin Tao 金　　涛(ジン タオ)	Effect of manure and fertilizer applications on greenhouse gas emissions from a grassland in Southern Hokkaido, Japan (北海道南部の採草地における堆肥と化学肥料の施用が温室効果ガス収支に与える影響)	2
Islam K. B. M. Saiful (イスラム K. B. M. サイフル)	Analysis of the effect of cholic acid supplemented diet on the microbiota composition of rat cecum by sequencing 16S rRNA gene clone libraries (16S rRNA 遺伝子クローンライブラリー法によるコール酸添加食がラット盲腸内菌叢におよぼす影響の解析)	11
Coralia Valentina Valdizon Garcia (コラリア バレンチナ バルディゾン ガルチア)	Analysis of volatile compounds from the edible loroco flower at different stages of maturity (成熟段階の異なる loroco 食用花の揮発式成分分析)	8
Tatiana Milena Marques (タチアナ ミレナ マルケス)	Analysis of deoxycholic acid effects on microbiota population in a human intestinal model (ヒト腸内細菌モデル培養菌叢に与えるデオキシコール酸の影響の解析)	11
2009(H21)		
Kim Dae Hoon (デフン キム)	Studies on coffee garbage-hydrolyzing enzymes of *Neurospora* sp. (*Neurospora* sp. のコーヒー残渣加水分解酵素に関する研究)	3
Lukana Ngiwsara (ラカナ ギウサラ)	Manipulating Gln349 and Leu350 in honeybee α-glucosidase III leads to alter catalytic ability (ミツバチ α-グルコシダーゼⅢの Gln349 および Leu350 への変異導入による触媒能の改変)	6
Yuraporn Sahasakul (ユラーポーン サハサクン)	Study on gastric colonization of microbiota in mice fed purified and commercial diets (精製飼料および市販固形飼料を摂取したマウスの胃内細菌叢に関する研究)	4
Cheng Ying (イン チェング)	Impacts of 90-year-incorporation of chemical fertilizer on the community structure of arbuscular mycorrhizal fungi (90 年間の化学肥料連用がアーバスキュラー菌根菌の群集構造に与えるインパクト)	16
Daxin Li (ダシン リ)	Screening for Maillard reaction inhibitors from culture broth of *Paecilomyces* sp. (*Paecilomyces* sp. 培養液からの Maillard 反応阻害剤のスクリーニング)	12
Yun Hea-Yeon (ヘヨン ユン)	Expression and characterization of recombinant *Rhodococcus* ClpP proteases (*Rhodococcus* 属細菌由来 ClpP プロテアーゼの発現と機能解析)	31
2010(H22)		
Thitichotrattana Kornkanok (コーンカノック ティティチョットラッタナー)	Introduction of the *lft* gene-carrying plasmid into a number of levan-producing *Bacillus subtilis* strains and its possible effects on DFA IV production (レバン生産性枯草菌への lft 遺伝子を持ったプラスミドの導入と DFA Ⅳ生産性への影響)	5
Song Kyung-Mo (ソン キョンモ)	Investigation of production conditions of recombinant *Podospora anserina* α-glucosidase (組換え *Podospora anserina* α-glucosidase の生産条件の検討)	6
Choi Sun Hee (ソンニ チェ)	A single amino acid change in P3 of *Clover yellow vein virus* determines resistance breaking in *Pisum sativum* (クローバ葉脈黄化ウイルス P3 遺伝子の 1 アミノ酸置換が，エンドウの抵抗性打破に関与する)	16
Ni Wayan Arya Utami (ウタミ ニ ワヤン アルヤ)	The effect of yacon administration on human intestinal microbiota (ヤーコンの摂取による腸内細菌叢の変化に関する研究)	5
Anastasia Setiawan (セティアワン アナスタシア)	Studies on secondary metabolite-mediated interaction between bacterium and another species of bacterium in their consortia (二次代謝産物を介した細菌群集における異種細菌間の相互作用に関する研究)	9
Chang Hsin-Yu (チョウ シンユ)	Trial for repressing carcinogenic secondary bile acids formation by enhancing anaerobic respiration of intestinal microbiota in rat cecum (嫌気呼吸の促進によるラット腸管における発癌二次胆汁酸生成抑制の試み)	11

Student's Name	Thesis Title	Lab. No.
2011 (H23)		
Alawiyah Syarifah (シャリファ アラウィヤ)	Screening of novel enzymes for effective saccharification of alkali-treated rice straw (アルカリ処理稲ワラの糖化酵素の探索)	5
Balua Veronica Raphael (バルア ヴェロニカ ラファレル)	Influence of DFA III and *R. productus* AHU1760 on rat intestinal environment (DFA III と *R. productus* AHU1760 がラット腸内環境に及ぼす影響)	5
Noorul amin Arshana Nor (アルシャナ ノル ノール アミン)	Analysis of early stages of root-knot nematode infection site formation in plant roots using an in vitro system (In vitro システムを用いた，植物の根におけるネコブ線虫感染部位形成初期段階の解析)	1
Maneesan Janjira (ジャンジラ マニーサン)	Production mechanism of 1,5-anhydro-D-fructose by α-glucosidase (α-グルコシダーゼによる 1,5-アンヒドロ-D-フラクトースの生成機構)	6
Panchita Phuwamongkolwiwat (パンチタ プゥワモンコンウィワット)	Study of non-digestible saccharides on promotion of physiological effects from flavonoid glycosides (難消化性糖質によるフラボノイド配糖体の生理効果を高める研究)	7
Lee Ja-Young (ジャヨン リ)	Expression and functional analysis of 7β-hydroxysteroid dehydrogenase from novel ursodeoxycholic acid producer *Ruminococcus gnavus* N53 (新規ウルソデオキシコール酸生成腸内細菌 *Ruminococcus gnavus* N53 由来の 7β-hydroxysteroid dehydrogenase の発現と機能解析)	11
Khine Swe Nyunt (カイ スェイ ニュン)	Isolation of antitrypanosomal compounds from Myanmar medicinal plants (ミャンマー薬用植物からの抗トリパノソーマ剤の開発)	8
Teuku Beuna Bardant (テウク ベウナ バルダント)	The effect of hemicelluloses on mechanical properties of wood cell wall using honeycomb-patterned cellulosic film (ハニカムパターン化セルロースフィルムを用いた木材細胞壁の力学強度に及ぼすヘミセルロースの効果)	13
Boey Andrew Kah Wang (アンドル カー ワン ボイ)	Growth promoting compound for *Catellibacterium nectariphilum* produced by *Sphingomonas* sp. (*Sphingomonas* sp. の生産する *Catellibacterium nectariphilum* に対する成長促進因子)	12
Mutiara Laksminingrum Sidharta (ムティアラ ラクスミニングルム シダルタ)	Isolation of biologically active compound from *Perenniporia fraxinea* (*Perenniporia fraxinea* の生産する生理活性物質の単離)	12
Erwin Suwendi (エルウィン スウェンディ)	Zinc deficiency exacerbates experimental colitis in vivo and induces dysregulation of cytokine production in vitro (亜鉛欠乏は in vitro でのサイトカイン産生の調節異常と in vivo での実験的大腸炎の悪化を引き起こす)	3
2012 (H24)		
Son Jungsu (ソン ジュンス)	Biochemical characterization of a 4-*O*-β-D-mannosyl-D-glucose phosphorylase from *Flavobacterium johnsoniae* NBRC14942 (*Flavobacterium johnsoniae* NBRC14942 由来 4-*O*-β-D-mannosyl-D-glucose phosphorylase の生化学的諸性質の解析)	11
Abdul Latif Noh (アブドゥル ラティフ ノー)	Analysis of the link between cytokinin signalling and root-knot nematode infection (ネコブセンチュウ感染とサイトカイニンシグナリングの関連についての研究)	10
Ines Septi Arsiningtyas (イネス セプティ アルシニングティアス)	Search for rat intestinal maltase inhibitors from an Indonesian herb, *Pluchea indica* (インドネシア産植物 *Pluchea indica* 中のラット小腸マルターゼ阻害物質の探索)	4
Mohammad Nazrul Islam Bhuiyan (モハンマド ナズルール イスラム ブイヤン)	Growth promoting compound for bacterial strain ASTN45 produced by *Sphingomonas* sp. (*Sphingomonas* sp. の生産するバクテリア ASTN45 株に対する成長促進因子)	12
Atfritedy Limin (リミン アトフリテディ)	Effect of manure application on carbon balance in managed grassland of Southern Hokkaido, Japan (道南の採草地における炭素収支への堆肥施与の影響)	2
Xi Li (シー リー)	Evaluating spatial and temporal variability in global warming potential (GWP) in Ikushunbetsu river watershed, Central Hokkaido Japan (道央幾春別川流域における地球温暖化指数 (GWP) の時空間変動評価)	2
Tampubolon Biatna Dulbert (ビアトナ ドゥルベルト タンプボロン)	Vegetation distribution analysis by hyperspectral sensor in tropical peatland, Central Kalimantan, Indonesia (インドネシア中央カリマンタンの熱帯泥炭地におけるハイパースペクトルセンサによる植生分布の解析)	1
2013 (H25)		
Worawan Sornkom (ソルンコム ウォラワン)	Expression analysis of *AVR-Pia* gene of *Magnaporthe oryzae*, the pathogen of rice blast (イネいもち病菌 *Magnaporthe oryzae* の *AVR-Pia* 遺伝子の発現解析)	5
Kurnia Yudistira Wahyu (ユディスティラ ワヒュ クルニア)	Plaque purification and characterization of a nege-like virus from *Aedes* mosquito larvae collected in Hokkaido (北海道で採取されたヤブカ幼虫から分離されたネジ様ウイルスのプラーク精製と性状解析)	14
Lei Wang (オウ ライ)	Chemo-enzymatic synthesis of 1'-modified sucrose derivatives for diazirine-based photoaffinity labeling (ジアジリン基を利用した光アフィニティーラベルのための化学酵素的 1' 位修飾スクロース誘導体の合成)	9
Stella Kristanti Kurniawan (ステラ クリスタンティ クルニアワン)	Ingestion of fumarate capsule supresses intestinal permeability in rats fed high-fat and high-sucrose diet (フマル酸カプセルの摂取は高脂質高ショ糖摂取ラットにおける消化管粘膜の物質透過性を抑制する)	4
Xiangyu You (ユウ ショウウ)	Preparation of electrode for electric double layer capacitor derived from lignins (リグニンを原料とする電気 2 重層キャパシタ用電極の調製)	13

Student's Name	Thesis Title	Lab. No.
2014（H26）		
Sarinya Tawthep （サリンヤ タオテープ）	Isolation and characterization of the novel secondary bile acid-producing bacteria from rat cecal contents （ラット盲腸内容物からの新規二次胆汁酸生成菌の単離と性状の解析）	11
Putri Pratiwi （プトリ プラティウィ）	Cloning and characterization of allene oxide cyclase, SmAOC, in a model lycophyte *Selaginella moellendorffii* （イヌカタヒバ（*Selaginella moellendorffii*）のアレンオキシドシクラーゼの機能解析）	8
Luo Weifeng （ルオ ウェイフェン）	Proteomic analysis of *Physcomitrella patens* protonemata treated with 12-oxo-phytodienoic acid （12-オキソファイトジエン酸処理したヒメツルガネゴケ原糸体のプロテオーム解析）	8
Jeon Eun Jin （ジョン ウンジン）	Analysis of immune responses mediated by rgs-CaM through recognition of viral infection in tobacco （タバコ rgs-CaM によるウイルス感染の認識を介した免疫反応の解析）	15
Min Ma （マ ミン）	Analysis of amino acid residues relating to specificity of α-glucosidase from *Aspergillus niger* （*Aspergillus niger* 由来 α-glucosidase の特異性に関与するアミノ酸残基の解析）	6
Liao Julan （リャオ ジュラン）	Purification and characterization of recombinant α-galactosidase from *Aspergillus niger* （組換え *Aspergillus niger* α-galactosidase の精製と性質に関する研究）	6
Kevin Earl Sherman （ケビン オール シャーマン）	Biochemical characterization of a recombinant *Klebsiella pneumoniae* 9-3B phytase that fully hydrolyzes phytic acid （フィチン酸を完全加水分解する組換え *Klebsiella pneumoniae* 9-3B フィターゼの生化学的解析）	5
Sarah A. Faulina （サラ アシ ファウリナ）	Characterization of arbuscular mycorrhizal fungal communities as a function of distance from the crater in Sakurajima volcano （桜島火山におけるアーバスキュラー菌根菌群集の火口からの距離に着目した特徴付け）	16
Joe Ga Hyun （ジョ ガヒョン）	Modulation of rat macrophage functions by isomaltomegalosaccharides （イソマルトメガロ糖によるラットマクロファージの機能調節）	3
Bak Gyeryeong （ベク ゲリョン）	Studies on root-associating, diazotrophic bacteria contributing to a highly productive cross-hybrid rice of *Oryza longistaminata* × *O. sativa* T-65 cultivated in unfertilized paddock （アフリカイネ×ジャポニカイネの交雑後代系統の完全無施肥水田での安定な収量に寄与する根着生窒素固定細菌に関する研究）	9
Ikabongo Mukumbuta （イカボンゴ ムクンブタ）	Greenhouse gas emissions and global warming potential from a cornfield and managed grassland: The effect of chemical fertilizer and manure applications and land use change （コーン畑，採草地からの温室効果ガス排出と地球温暖化指数：化学肥料，堆肥施与と土地利用変化の影響）	2
Junlei Duan （ダン グンレイ）	Preparation and application of carbon fibers from two kinds of electrospun lignin fibers （二種類の電解紡糸リグニン繊維からの炭素繊維の調製とその応用）	13
Ningning Cheng （チェン ニンニン）	Simultaneous saccharification and fermentation of lignocellulose with amphipathic lignin derivatives for bioethanol production （バイオエタノール製造のための両親媒性リグニン誘導体を用いたリグノセルロースの同時糖化発酵）	13
2015（H27）		
Wen Yongteng （ウェン ヨントゥン）	Linking high-value commodity markets, and small farmers, through contract farming in China: A case study centered on quality-oriented chicken production in Fujian Province （高付加価値農産物市場への小規模農家の参入可能性について―中国福建省における養鶏契約栽培をとおして―）	22
Klahan Patcharapa （パッチャラパ クラハーン）	Analysis of amino acid residues relating to specificity of endodextranase from *Streptococcus mutans* （*Streptococcus mutans* 由来 endodextranase の特異性に関与するアミノ酸残基の解析）	6
Albertus Eka Yudistira Sarwono （アルベツス エカ ユディスチラ サーヲノ）	Screening of antiprotozoan agents against *Trypanosoma congolense* and *Cryptosporidium parvum* （*Trypanosoma congolense* 及び Cryptosporidium parvum に対する抗原虫剤の探索）	12
Lucy Lahrita （ルーシー ラーリタ）	The effects of Indonesian medicinal plants on glucose uptake and lipid accumulation in 3T3-L1 adipocytes （3T3-L1 脂肪細胞の糖取り込みと脂質蓄積に対するインドネシア薬用植物の効果）	4
Auiewiriyanukul Waraporn （ワラポン イヤォウィリャヌクン）	Screening and characterization of novel amylolytic enzymes having high transglycosylation activity from bacterial origins （微生物に由来する新規な澱粉関連糖転移酵素の探索と諸性質）	7
Ospina Alarcon Ricardo （リカルド オスピナ アラルコン）	Determination of tire dynamic properties of an agricultural vehicle （農用車両の車輪動特性の決定法に関する研究）	19
Kam Dong Gyu （カン ドンギュ）	The effects of elevated ground surface ozone on the growth and physiology of Japanese larch and its hybrid seedlings （ニホンカラマツとその雑種 F1 の成長と生理に及ぼす地表付近オゾンの影響）	27
Frankie Kiew （フランキー キュー）	Carbon dioxide exchange between the atmosphere and a secondary tropical peat swamp forest in Sarawak, Malaysia （マレーシア・サラワク州の熱帯泥炭二次林における大気との二酸化炭素交換）	2
Rina Kartikawati （リナ カーティカワティ）	Effect of renovation on carbon budget in managed grassland – A case study in Southern Hokkaido, Japan （管理草地における更新が炭素収支に及ぼす影響―道南における事例研究）	2

Student's Name	Thesis Title	Lab. No.
2016 (H28)		
Zetryana Puteri Tachrim (ゼトリヤナ プテリ ターリム)	Halogenated sucrose at the primary position: Comprehensive structure elucidation and reactivity study (スクロース 1 級水酸基のハロゲン化：網羅的構造検討と反応性検討)	9
Nur Wakhid (ヌル ワヒド)	Soil CO_2 emissions from a rubber plantation on tropical peat (熱帯泥炭地におけるラバープランテーションからの土壌 CO_2 排出量)	25
Iweka Patricia Nneka (パトリシア ンネカ イウェカ)	Development of near-infrared spectroscopic sensing system for online real-time milk quality evaluation during milking (搾乳時乳質のオンラインリアルタイム評価のための近赤外分光センシングシステムの開発)	29
Laksana Anugerah Adhi (アヌグラ アディ ラクサナ)	Total synthesis of enokipodins A and B (エノキポディン A および B の全合成)	8
Rifa Atunnisa (リファ アトゥニサ)	Evaluation of disturbance tolerance of arbuscular mycorrhizal fungal communities in a volcanic ecosystem (活火山生態系におけるアーバスキュラー菌根菌群集の撹乱耐性)	16
Kim Yong Rae (キム ヨンレ)	Change in debris flow impact by controlling sediment concentration (土砂濃度のコントロールによる土石流の衝激力の変化)	28
Hao Wang (オウ ホウ)	Adaptive turning control for robotic tractors (ロボットトラクタの適応旋回制御)	19
2017 (H29)		
Li Jianye 李　建燁(リ ケンエイ)	Roles of autophagic and lysosomal cathepsin status on preimplantation development of bovine embryos (ウシ胚の初期発生・分化に関わるオートファジーおよびリソソームカテプシンの発現動態の解明)	33
Vecky Dwi Kuswandora (ベッキー ディー クスワンドラ)	Effect of renovation on greenhouse gas emissions in a managed grassland (草地更新が温室効果ガス排出におよぼす影響)	2
Fu Yang 付　　楊(フ ヤン)	Effects of chemical fertilizer and manure application on dissolved carbon leaching and carbon budget in a managed grassland in Southern Hokkaido, Japan (北海道南部管理採草地における，化学肥料および堆肥の施与が溶存炭素溶脱と炭素収支に与える影響)	2
Vu Thi Kim Chi (ブ チ キム チ)	Research on the function of global regulator LaeA and the mutation mechanism of *AVR-Pia* in rice blast fungus (イネいもち病菌における包括調節因子 LaeA の機能と *AVR-Pia* 遺伝子の変異機構の研究)	5
Chen Yulin (チン ウリン)	Application of glycosylation catalyzed by three selective α-glucan-active enzymes for synthesis of α-glucosides (α-グルカンに作用する三つの酵素による配糖化反応の α-グルコシド合成への応用)	7
Jukkrapong Pinyo (ピンヨー チャクラポン)	GLP-1 response during the progression of diet-induced obesity and its role in the development of glucose intolerance in rats (食事誘導性肥満ラットにおける GLP-1 分泌応答と，耐糖能不全発症におけるその役割)	4
Meijuan Lin (リン メイジャン)	Chemical investigation of methyl jasmonate-inducible sesquiterpenes from immature seeds of wild *Daucus carota* distributed throughout Sapporo area (札幌地域に分布するノラニンジン(*Daucus carota*) 未熟種子からメチルジャスモネート誘導性セスキテルペンの探索，単離精製，ならびに構造決定)	9
Squires, Theodore E. (スクワィヤズ セオドア)	The distribution of great cormorant (*Phalacrocorax carbo*) in Hokkaido and the detection of birds and prey using environmental DNA (北海道のカワウの分布及び，環境 DNA によるカワウとその被食者の検出)	32
Dolgormaa Mendbayar (ドルゴルマ メンドバヤル)	Physical and chemical properties of biochar produced from various types of biomass (多様なバイオマスから製造されたバイオ炭の物理的および化学的特性)	20
Putri Oktariani Rianto (プトリ オクタリアニ リアント)	Effect of manure and chemical fertilizer on microbial biomass and carbon emission in managed grassland and cornfield in Southern Hokkaido (道南の草地および飼料畑における微生物バイオマスと炭素排出におよぼす堆肥および化学肥料施与の影響)	2

Old library, Faculty of Agriculture (November 8, 2005); photo by Prof. Dr. YOKOTA Atsushi
Photo data: Nikon F2, AI Nikkor 35 mm f/2S, Sensia 100

List of Ph.D. Degrees Awarded and Doctoral Dissertation Titles

Student's Name	Doctoral Dissertation title	Lab. No.
2000 (H12)		
Jumpen Onthong (オンソング，ジュンペン)	Mechanisms of tropical plants to tolerate to low available phosphorus soils 低リン土壌における熱帯植物の耐性機構	1
Chanida Hansawasdi (ハンサワースヂ，チャニダー)	Studies on structure and function of alpha-glucosidase inhibitors in roselle tea ロゼル・ティー中の α-グルコシダーゼ阻害物質の構造と機能に関する研究	4
Mirasol F. Pampolino (パンポリーノ，ミラソル，フロレスカ)	Measurement of nutrient availability and solute transport in soils with lon exchange reesin capsules レジンカプセル法を用いた土壌中の養分の可給性と溶質輸送の測定	2
Peter Kurdi (カルディ，ペーター)	Cholic acid transport properties of Lactobacilli and Bifidobacteria 乳酸桿菌及びビフィズス菌コール酸輸送特性	5
Sang-Ho Baik 白，桑好(ベク，サンホ)	Raffinose synthesis by α-galactosidase from *Absidia corymbifera* IFO 8084 *Absidia corymbifera* IFO 8084 由来 α-ガラクトシダーゼによるラフィノースの合成	5
Yang Qing 楊，青(ヤン，チン)	Chemical studies on the sormation of plant storage organs 植物貯蔵器官形成に関する化学的研究	8
2001 (H13)		
Akarat Suksomcheep (スクソムチープ，エカラット)	Studies on 16S rDNA-targeted probes for monitoring intestinal microorganisms 腸内細菌モニタリングのための 16S rDNA 標的プローブの開発に関する研究	5
Lee Jin-Ha 李，鎭河(イー，ジンハ)	Catalytic mechanism and molecular structure of trehalase from honeybee ミツバチ Trehalase の反応機構および構造に関する研究	6
Hu Ronggui 胡，栄桂(フー，ロングイ)	Methane flux and soil respiration in various types of land use さまざまな土地利用におけるメタンフラックスと土壌呼吸	2
2002 (H14)		
Parvin Begum (パルビン，ベガウム)	Studies on biologically active constituents from *Ginkgo biloba* イチョウに含まれる生物活性を有する化学成分に関する研究	9
Kaewprasert Sarunya (サランヤー，ケウプラサート)	Nutritional and biochemical studies of dietary cyclodextrins シクロデキストリンの栄養生化学的研究	3
Rutatip Suriya (スリヤー，ルタティープ)	Expression and function of activin A in intestinal epithelial cells 小腸上皮細胞におけるアクチビン A の発現と機能に関する研究	4
Islam Md. Tofazzal (エムディ，トファザル，イスラム)	Ecochemical interactions between plants and zoospores of the phytopathogenic oomycete *Aphanomyces cochlioides* 植物病原性卵菌 *Aphanomyces cochlioides* の遊走子と植物の生態化学的相互作用	9
Son Mee (ソン，ミー)	Catalytic mechanism and molecular structure of α-glucosidase from yellow dent corn イエローデントコーン α-グルコシダーゼの機能と構造に関する研究	6
Derek, Bartlem, Goto (デレック，バートレム，ゴトウ)	Regulation of gene expression in response to changes in methionine accumulation in *Arabidopsis thaliana* シロイヌナズナにおけるメチオニン蓄積の変化に応答した遺伝子発現制御	10
2003 (H15)		
Pholnukulkit Pimara (ピマラ，ポヌクルキット)	Study of activin a functions in relation to butyrate action in colon cancer cells 大腸ガン細胞に対する酪酸の生理作用発現におけるアクチビン A の役割に関する研究	4
Hasna Hena Begum (ベゴム ハスナ ヘナ)	Phosphoenolpyruvate carboxylase(PEPC) function in plants tolerant to soils with low phosphorus and pH 低リンと低 pH 土壌に対する植物耐性に関与する Phosphoenolpyruvate carboxylase(PEPC)の機能	1
Sehat Jaya Tuah (トゥアー，セハット ジャヤ)	Eco-nutritional study on diverse terrestrial plants 陸生植物に関する栄養生態学的研究	1
Woli Krishna Prasad (クリスナ，プラサド オリ)	Evaluating stream water quality through land use analysis and nitrogen budget approaches 土地利用解析と窒素収支法による河川水質評価	2
Lambein Ingrid Yuan-Chi Diana (ランバイン，イングリッド ユアンチ ディアナ)	Study of major regulatory aspects of methionine biosynthesis in *Arabidopsis thaliana* シロイヌナズナにおけるメチオニン生合成の主要な調節様式についての研究	10
Than Than Win (タン，タン ウイン)	Studies on the synthesis of some non-reducing saccharides using glycosidases グリコシダーゼを用いた非還元糖の合成に関する研究	7
Xi Quan Gao 高　夕全(ガオ，シークァン)	Physiological and biochemical studies on the action mechanism of theobroxide セオブロキシドの作用機作に関する生理・生化学的研究	8
2004 (H16)		
Sun Park (パク，スン)	Chemical studies on defence of dlants against soil-borne diseases 土壌病害に対する植物の防御に関する化学的研究	8
Afsana Kaosar (カオサロ，アフサナ)	Effects of tannic Acid and nondigestible carbohydrate sources on absorption of iron and other trace minerals in rats ラットの鉄およびその他微量必須元素の吸収におけるタンニン酸と非吸収性糖類の影響	3
Subeki(ス ベ キ)	Chemical studies on medicinal plants in central Kalimantan 中央カリマンタン産薬用植物の化学的研究	8
He Guochuan 何　国春(ハーゴアツオン)	Studies on novel toxins from a plant pathogenic fungus *Lasiodiplodia theobromae* and its antagonistic organism *Penicillium expansum* 植物病原菌 *Lasiodiplodia theobromae* 及びその拮抗微生物 *Penicillium expansum* の新規毒素に関する研究	8
Wang Yi 王　　一(ワン イ)	Studies on α-glucosidase from alkalophilic *Bacillus* sp. HM00127 アルカリ *Bacillus* sp. HM00127 由来 α-Glucosidase に関する研究	7

Student's Name	Doctoral Dissertation title	Lab. No.
Ren Shukun 任　淑坤(レン シュクン)	Studies on cadmium-releasing protease by *Arthrobacter nicotinovorans* 23-0-11 *Arthrobacter nicotinovorans* 23-0-11 株によるカドミウム遊離プロテアーゼに関する研究	5
Purevjav Enkhbayar (プレブジャブ エンヘバヤル)	Structural principles of proteins revealed by computer-aided geometrical analysis 蛋白質の立体構造原理解明へのバイオインフォマテイクス研究	1
Asvarujanon, Patchana (アサワルジャノン，パッチャナ)	Study on the effects of Psyllium(*Plantago Ovata*) and nondigestible disaccharides on mineral absorption bone parameters in normal and ovariectomized rats 卵巣摘除骨粗鬆症モデルラットにおける，サイリュームおよび非消化性二糖類摂取によるミネラル吸収と骨への影響に関する研究	3
Megh, Raj, Bhandari (メグ，ラジ，バンダリ)	Food Value, nutritional and biochemical assessment of wild yam(*Dioscorea* species) tubers of Nepal ネパール産野生ヤム(*Dioscorea* 種) 塊茎の食品価値，栄養価および生化学的評価	4
2005(H17)		
Lulie, Joshua, Melling (ルリー，ジョシュア，メリング)	Greenhouse gas fluxes from tropical peatland of Sarawak, MALAYSIA マレーシアサラワクの熱帯泥炭からの温室効果ガスフラックス	2
Young-Min Kim 金　泳珉(キム ヨンミン)	Catalytic mechanism and molecular structure of dextranase having intramolecular transglycosylation activity from *Paenibacillus* sp. *Paenibacillus* sp. 分子内転移活性を持つ Dextranase の構造と機能に関する研究	6
Monrawee Yanbuaban (モンラウィ ヤンブァバン)	Eco-physiology of plants grown in tropical peat swamp 熱帯泥炭湿地に生育する植物の生理生態	1
Xu Hong 徐　　虹(シー ホン)	Studies on the effect of dietary factors on hepatic and intestinal disease in animal models 動物モデルにおける肝臓・消化管疾病に及ぼす食餌成分の作用に関する研究	3
Evelyn Banzuela Elegad (エベリン バンズエラ エレガド)	Analyses of recombinational repair genes in the rice blast fungus イネいもち病菌の組換え修復遺伝子の解析	5
Ashara, Pengnoo (アシャラ，ペングノー)	Functions of phosphate-solubilizing microorganism in tropical acidic and low phosphorus soils 熱帯の酸性および低リン土壌におけるリン可溶化微生物の機能	1
Abhinandan, Deora (エビナンダン，デオラ)	Screening of rhizobateria antagonistic against phytopathogenic Pernosporomycetes, and further microscopic investigation of their effacts on the morphophysiology of the pathogens 植物病原性卵菌類に対して拮抗性を示す根圏細菌の検索と，それら拮抗細菌が病原菌に及ぼす形態生理的影響の顕微的検証	9
2006(H18)		
Ida, Bagus Wayan Gunam (イダ，バグス ワヤン グナム)	Biodesulfurization of dibenzothiophene and its derivatives by an isolate; *Sphingomonas subarctica* T7b 分離株 *Sphingomonas subarctica* T7b によるジベンゾチオフェンおよびその誘導体の脱硫	5
Achmad Dinoto (アハマド ディノト)	Molecular ecological analyses of alteration of Bifidobacterial population by administration of raffinose in rat cecum and human intestine ラフィノース投与によるラット盲腸及びヒト腸管内でのビフィズス菌動態の分子生態学的解析	11
Jintanart Wongchawalit (ジンタナート ウォンシャワリット)	Catalytic mechanism and molecular structure of α-glucosidase isozymes from asian honeybees アジア原産ミツバチの α-グルコシダーゼアイソザイムの構造と機能に関する研究	6
Wen Yaolin 温　堯林(ウエン ヤオ リン)	Survey of physiologically active plant secondary metabolites by using *Aphanomyces cochlioides* zoospores *Aphanomyces cochlioides* の遊走子を用いた生理活性植物二次代謝産物の探索	9
Habib Mohammad Naser (ハビブ モハンマドナセル)	Evaluating the status oh greenhouse gas budgets of paddy fields in central Hokkaido, Japan 道央における水田の温室効果ガス収支の評価	2
Chayaporn, Saranpuetti (チャヤポーン，サランプルティ)	Characterization and purification of lepidimoide-producing enzymes from *Colletotrichum* sp. AHU9748 *Colletotrichum* sp. AHU9748 由来レピジモイド生産酵素の精製とその特徴	5
Kong Fanjiang 孔，凡江(コン，ファンジャン)	Functions of theobroxide on jasmonic acid biosynthesis in plant 植物中でのジャスモン酸生合成におけるセオブロキシドの機能	8
Gerald, Bareng Ravelo (ジェラルド，バレング ラベロ)	Genrtic studies of lethal tip necrosis induced by Clover Yellow Vein Virus infection in pea (*Pisum sativum* L.) クローバー葉脈黄化ウイルス感染で誘導されるエンドウの頂部えそに関する遺伝学的研究	10
2007(H19)		
Su Youbo 蘇，友波(スー，ユウボウ)	Diazotrophs diversity and its beneficial role in high yield rice Padi Panjang growing in acid sulfate paddy soil in Indonesia. インドネシアの硫酸酸性水田土壌に生育する多収イネ Padi Panjang における窒素固定細菌の多様性とその有用性について	1
Irnayuli Rosaleida Sitepu (イルナユリ ロザレイダ シテプ)	Screening of plant growth-promoting rhizobacteria from Dipterocarpaceae plants growing in Indonesian tropical rain forests, and investigations of their functions on seedling growth インドネシアの熱帯雨林に自生するフタバガキ幼木の根面からフタバガキ実生の生育を促進する細菌類の検索とそれらの機能性に関する研究	9
Yuyus Kusnadi (ユユス クスナディ)	Studies on β-fructofuranosidase from *Arthrobacter globiformis* IFO 3062 *Arthrobacter globiformis* IFO 3062 の生産する β-フルクトフラノシダーゼに関する研究	7
Nam Kyong-Hee 南　京希(ナン キョン ヒ)	Studies on endogenous and exogenous factors in the induction of tubers and flower buds 塊茎と花芽誘導に関係する内生および外生要因の研究	8

Student's Name	Doctoral Dissertation title	Lab. No.
Nilubon Jong-Anurakkun (ニルボン ジョン アヌラックン)	Studies on α-glucosidase inhibitors from Asian medicinal plants アジア産薬用植物中の α-グルコシダーゼ阻害物質に関する研究	4
Mu Zhijian 木　志堅(ム ジ ジャン)	Evaluation of net greenhouse gas budget in various upland crop fields in central Hokkaido, Japan 道央におけるさまざまな畑地からの温室効果ガス収支の評価	2
Li Liyan 李　立源(リ リ エン)	Analysis of the mechanism of enhanced glucose metabolism in an H^+-ATPase-defective mutant of *Corynebacterium glutamicum* ATCC14067 by comparative proteomic approach *Corynebacterium glutamicum* ATCC14067 の H^+-ATPase 欠損変異株におけるグルコース代謝促進機構の比較プロテオーム解析	11
2008(H20)		
Leily Tjandrawaskitasari (レイリ チャンドラワスキタサリ)	Biodegradation of phenolic compounds by extracellular peroxidase in suspension cell culture of liverwort *Heteroscyphus planus* コケ植物 *Heteroscyphus planus* 懸濁培養細胞の細胞外ペルオキシダーゼによるフェノール化合物の分解	8
Albert Asante (アルベーツ アサンテ)	Screening of functional rhizobacteria possessing antagonistic activities against *Fusarium oxysporum* and phenolic acid-decarboxylation abilities 病原性フザリウムに対する拮抗活性およびフェノールカルボン酸脱炭酸活性を指標にした機能性根圏細菌の検索	9
Li Peng 李　　鵬(リ ホウ)	Study on biosynthesis of theobroxide and its related compounds in *Lasiodipldia theobromae* *Lasiodipldia theobromae* が生産する Theobroxide 及び関連化合物の生合成研究	8
An Gi-Hong 安，起弘(アン，ギ，ホン)	Community structures of arbusecular mycorrhizal fungi in symbiosis with pioneer grass species *Miscanthus sinensis* in acid sulfate soils 酸性硫酸塩土壌におけるパイオニア植物ススキに共生するアーバスキュラー菌根菌の群集構造	16
Ongol Martin Patrick (オンゴル マーチン パトリック)	Development and application of probiotics 腸内健康作用のある微生物の探索と応用	5
Ahmed Mohamed Elkhateeb (アハマド ムハマド エルカティーブ)	Isolation and structural elucidation of anti-babesial compounds from medicinal plants. 薬用植物に含まれる抗バベシア化合物に関する有機化学的研究	8
Pirapatdit Sooksan (ピラパトゥディット スークサン)	Reducing effect of dietary α-linked galactoorigosaccharide of inflammatory cell migartion in allergic peritonitis of mice マウスのアレルギー性腹膜炎における炎症細胞遊走に対する α 結合ガラクトオリゴ糖の抑制作用に関する研究	4
Zhou, Keqin 周　克琴(シュウ クー チン)	Signals and transcription factors involved in phosphorus starvation responses in white lupin シロバナルーピンのリン欠乏応答に関わるシグナルと転写調節因子	1
MD. Kaosar Niazbin Sufian (エムディ カオサル ニアズビン スフィアン)	Study on developing appetite-suppressive and CCK-releasing food peptides derived from dietary proteins CCK 分泌刺激を介した摂食調節作用を有する食品たんぱく質由来ペプチドに関する研究	3
Chen Zheng 陳，正(チェン，ズング)	Ionomics study of *Lotus japonicus* ミヤコグサのイオノミクス研究	1
2009(H21)		
Afrida (アフリダ)	Biobleaching of *Acacia* kraft Pulp by extracellular enzymes secreted from white-rot fungi 白色腐朽菌の菌体外酵素によるアカシアクラフトパルプのバイオブリーチング	1
Kabg Min-sun 姜，玟先(カン ミンソン)	Molecular mechanism and application of bacterial glycosidases 細菌由来糖質分解酵素の分子機構および応用に関する研究	6
Lee Jae-Sung 李　載星(リ チェソン)	Functional analyses of mucosal immune cells isolated from rat intestine: Populations, cytotoxicity, and its contribution to chemokine expression in the villus epithelia ラット腸管粘膜免疫系細胞の機能解析：細胞構成，細胞傷害性及び絨毛上皮におけるケモカイン発現への寄与	3
Charin Thawornkuno (チャリン，ターウォンクノー)	A Study of equol producing mechanism of a new genus of intestinal bacteria *Asaccharobacter celatus* AHU1763 新属腸内細菌 *Asaccharobacter celatus* AHU1763 によるエクオール生成のメカニズムの研究	5
Phebe Hendra (フェービ，ヘンドラ)	Synthesis of a benzophenone glucopyranoside from *Phaleria macrocarpa* and its related benzophenone glucopyranosides *Phaleria macrocarpa* 由来の benzophenone glucopyranoside および関連配糖体の合成	9
2010(H22)		
Tokuhisa Dai (トクヒサ ダイ)	Promotion of root growth by the application of inosine (イノシンによる植物の根生長促進)	1
Atiqur Rahaman (アティクル ラーマン)	Studies on the functionalities of plant growth-promoting rhizobacteria from wild dipterocarp saplings naturally growing on medium-strongly acidic, tropical peat soil in Central Kalimantan, Indonesia インドネシア中央カリマンタンの中強酸性・熱帯泥炭土壌に自生するフタバガキ幼木根圏から分離した植物生育促進根圏細菌(Plant Growth-Promoting Rhizobacteria, PGPR)の機能性に関する研究	9
Edmundo L. Sanchez Jr. (エドムンド L サンチェス Jr)	Studies on the retrotransposons of the rice blast fungus イネいもち病菌のレトロトランスポゾンに関する研究	5

Student's Name	Doctoral Dissertation title	Lab. No.
Alexey Romanovich Desyatkin (アレクセイ ロマノビッチ デスヤトキン)	Methane budget of Taiga-Alas ecosystem in continuous permafrost region (Central Yakutia, Russia) 連続永久凍土地帯　ロシア中央ヤクチャのタイガ-アラス生態系におけるメタン収支	2
Hee-Kwon Kang (カン ヒゴン)	Catalytic mechanism of glycoside hydrolase family 66 enzymes: dextranase and cycloisomaltooligosaccharide glucanotransferase (グリコシドヒドラーゼファミリー 66 に属するデキストラナーゼと環状イソマルトオリゴ糖合成酵素の触媒反応機構)	6
Ndindeng Sali Atanga (ンディンデン サリ アタンガ)	Analysis of *Rhm51*, a DNA recombinational repair gene in the rice blast fungus (イネいもち病菌の DNA 組換え修復遺伝子 *Rhm51* に関する研究)	5
Sui-Yan Tang (タン スイ イェン)	Studies on root-associating nitrogen-fixing bacteria isolated from palms *Metroxylon sagu*, *Elaeis guineensis*, *Nypa fruticans* and *Cocos nucifera* growing on estuary or peatland of Mukah, Sarawak, Malaysia (マレーシア，サラワク州ムカ周辺の河口域あるいは泥炭地に自生するサゴヤシ，オイルパーム，ニッパヤシおよびココヤシの根に棲息する窒素固定細菌に関する研究)	9
2011 (H23)		
Quadir Quazi Forhad (クアディル クアジ フォルハド)	Ionomics study of stress response in *Lotus japonicus* (ミヤコグサにおけるストレス反応のイオノミクス研究)	1
Maria Sugiharti (マリア スギハルティ)	Isolation and characterization of a virus from *Setothosea asigna*, a major pest insect of oil palm in South Sumatra, Indonesia インドネシア南スマトラにおけるアブラヤシの主要害虫 Setothosea asigna からのウイルス分離と性状解析	14
Maria, Dewi, P. T., Gunawan-Puteri (マリア，デウィ，P. T.，グナワンプトリ)	Chemical studies on α-glucosidase inhibitors from Indonesian medicinal plants インドネシア産薬用植物中の α-グルコシダーゼ阻害物質に関する化学的研究	4
Pahala, Korale, Gedara, Sarachandra, Senarath, Bandara (サラチャンドラ，セナラス，バンダラ)	Cloning and functional characterization of key enzymes in octadecanoid pathway of *Physcomitrella patens* ヒメツリガネゴケ *Physcomitrella patens* 中のオクタデカノイド経路主要酵素のクローニングと機能特性	8
Jin Tao 金　　涛(ジン タオ)	Effect of chemical nitrogen fertilizer and manure application on the greenhouse gases emissions from a managed grassland in southern Hokkaido, Japan 北海道南部の採草地における温室効果ガス放出に対する窒素化学肥料と堆肥施与の影響	2
Islam K. B. M. Saiful (イスラム K. B. M. サイフル)	Bile acid is a host factor that regulates the composition and metabolism of rat cecal microbiota 胆汁酸は宿主因子としてラット盲腸内細菌叢の組成および代謝を制御している	11
Rui Jiang (ジャン ルイ)	Factors controlling temporal and spatial patterns of nitrogen export in Shibetsu watershed, eastern Hokkaido, Japan (標津川流域における窒素流出の時空間変動の支配因子)	2
Farzana Diba (ファルザーナ ディーバ)	Effect of soil aggregate on nitrous oxide production from different soils (異なる土壌における亜酸化窒素の生成に対する土壌構造の影響)	2
2012 (H24)		
Li Ying 李，莹(リ，イン)	Studies on novel substrates of protein phosphatase type 1 (PP1) using tautomycetin, a specific inhibitor of PP1 プロテインホスファターゼ 1 型(PP1) 特異的阻害剤トウトマイセチンを用いた PP1 の新規基質に関する研究	12
Mopera Lotis Escobin (モペラ ロティス エスコビン)	Purification and characterization of a novel phytase from *Klebsiella pneumoniae* 9-3B (*Klebsiella pneumoniae* 9-3B 由来新規フィターゼの精製と解析)	5
Dae-Hoon Kim (デフン キム)	Biochemical characterization and primary structure analysis of a liquefying α-amylase, AmyL, from thermoalkalophilic bacterium, *Bacillus* sp. AAH-31 (耐熱性アルカリ細菌 *Bacillus* sp. AAH-31 由来 α-アミラーゼ (AmyL) の生化学的諸性質と一次構造の解析)	7
Lukana Ngiwsara (ラカナ ギウサラ)	Molecular analysis of glycoside hydrolase family 13 honeybee α-glucosidase isoenzymes: Involvement of amino acids at conserved region II in substrate specificity and regioselectivity of transglucosylation (グリコシドヒドラーゼファミリー 13 に属するミツバチ α-グルコシダーゼの分子解析：基質認識・糖転移反応の立体特異性に対する保存領域 II に存在するアミノ酸の機能)	6
Yuraporn Sahasakul (ユラーポーン サハサクン)	Different impacts of purified and nonpurified diets on the indigenous *Lactobacillus* flora in mouse stomach (マウスの胃に常在する乳酸桿菌に精製飼料および非精製飼料が及ぼす異なる影響)	4
Ying Cheng (イン チェング)	Impact of 90-year-application of chemical fertilizer on the community structure and function of arbuscular mycorrhizal fungi (90 年の化学肥料連用がアーバスキュラー菌根菌の群集構造および機能に及ぼす影響)	16
Daxin Li (ダシン リ)	Studies on Maillard reaction inhibitors from culture broth of *Paecilomyces* sp. (*Paecilomyces* sp. 培養液からの Maillard 反応阻害剤に関する研究)	12
Hea-Yeon Yun (ヘヨン ユン)	Prokaryotic ubiquitin-like protein (Pup)/proteasome-dependent proteolytic pathway in *Rhodococcus erythropolis* (ロドコッカス・エリスロポリスにおけるユビキチン様分子 Pup-プロテアソーム依存的なタンパク質分解系)	31
Wenya Chen (ウェンヤ チェン)	Satiating effect of dietary plant proteins, peptides and the involvement of gastrointestinal hormones in rats (ラットにおける，植物由来の食品たんぱく質，ペプチドによる消化管ホルモン分泌を介した食欲調節に関する研究)	3

Student's Name	Doctoral Dissertation title	Lab. No.
Indun Dewi Puspita （インドゥン デウィ プスピタ）	Functional analysis of resuscitation promoting factor from *Tomitella biformata* AHU1821^T （Tomitella biformata AHU1821^T の産生する覚醒促進因子の機能解析）	5
2013（H25）		
Jian Lin （ジャン リン）	Preparation and characterization of softwood lignin-based carbon fibers （針葉樹リグニンを原料とする炭素繊維の調製とその特性の解明）	13
Song, Kyung-Mo （ソン キョンモ）	Structure-function relationship of fungal α-glucosidases belonging to glycoside hydrolase family 31 （Glycoside hydrolase family 31 に属する真菌類由来 α-glucosidase の構造と機能に関する研究）	6
Sun Hee Choi （ソンニ チェ）	The functions of P3 cistron of *Clover yellow vein virus* in resistance breaking and cell-to-cell movement in *Pisum sativum* （クローバ葉脈黄化ウイルスの P3 遺伝子がエンドウにおける抵抗性打破と細胞間移行に果す役割）	15
Utami Ni Wayan Arya （ウタミ ニ ワヤン アルヤ）	Effects of yacon（*Smallanthus sonchifolius*）tuber on physiology, fermentation products, and intestinal microbial communities in rats （ヤーコン（*Smallanthus sonchifolius*）の根がもたらす効果―生理機能，発酵生産物，ラットの腸内微生物叢の変化―）	5
Sha Zhimin （シャ ジミン）	Ionomics study of soybean （ダイズのイオノミクス研究）	1
Dongyeop Kim （ドンギョプ キム）	Studies on the effects of plant secondary metabolites on bacterial developments for xenobitotic biodegradation, biofilm formation and production of biocontrol agent （細菌による生体異物分解，バイオフィルム形成，ならびに他者制御物質生産に対する植物二次代謝産物の効果に関する研究）	9
Mengcen Wang （メンツェン ワン）	Studies on screening of paddy-rhizospherous microbes against rice seedling blight disease and characterization of their physiological traits （イネ苗立枯細菌病に拮抗性を示すイネ根圏微生物のスクリーニングとその生理学的特性の解明に関する研究）	9
2014（H26）		
Arshana Nor NOORUL AMIN （アルシャナ ノル ノール アミン）	Analysis of two host genes required for induction of root-knot nematode feeding sites （ネコブセンチュウが栄養摂取部位の誘導に要する二つの宿主遺伝子の解析）	1
Fengky Florante Adji （フェンキー フロランテ アッジ）	Effect of land use change and drainage on peat decomposition and greenhouse gas emission in a tropical peatland. （熱帯泥炭地における泥炭分解および温室効果ガス放出に及ぼす土地利用変化と排水の影響）	2
Janjira Maneesan （ジャンジラ マニーサン）	Reaction mechanism of glycosidases by studying 1,5-anhydro-D-fructose production （1,5-アンヒドロ-D-フラクトース生成によるグリコシダーゼの反応機構の究明）	6
Panchita Phuwamongkolwiwat （パンチタ プゥワモンコンウィワット）	Promotion of anti-diabetic effects of flavonoid glycosides by nondigestible saccharides （難消化性糖質によるフラボノイド配糖体の抗糖尿病作用を高める研究）	3
Worrawalan Phoonsawat （ウォラワラン プンサワット）	Adiponectin is partially associated with exosomes in mouse serum （マウスの血清においてアディポネクチンの一部はエキソソームに存在する）	4
Jayoung Lee （ジャヨン リ）	Cholic acid administration modulates intestinal microbiota composition and parameters for metabolic diseases in rats （胆汁酸はラット腸内細菌叢の組成および代謝性疾患のパラメーターを変化させる）	11
Li Li （リー リー）	Studies on physiological characteristics of *Pseudomonas* denitrifiers isolated from post-harvest soil of dent corn Andisol farmland, and regulative approach of those nitrous oxide (N_2O) emitters relevant to active N_2O efflux from the soil （収穫後デントコーン畑地黒ボク土壌から分離した *Pseudomonas* 属脱窒細菌群の生理学的特徴と，その土壌の高い亜酸化窒素（N_2O）放出を担う N_2O 生成細菌群の制御に関する研究）	2
Chunying Wang （チュンイン ワン）	Using SWAT model to predict water flow, sediment and nutrients loads in Shibetsu river watershed, eastern Hokkaido, Japan （SWAT モデルによる北海道東部の標津川流域における水，土砂，養分流出予測）	2
Khine Swe Nyunt （カイ スェイ ニュン）	Isolation of antitrypanosomal compounds from Myanmar medicinal plants （ミャンマー薬用植物からの抗トリパノソーマ剤の探索）	8
2015（H27）		
Lau Sharon Yu Ling （シャロン ユー リン ラウ）	Study on the diversity and vertical distribution of soil microorganisms in tropical peatlands of Sarawak, Malaysia, and characterization of nitrous oxide (N_2O)-emitters and quenchers from the tropical peat soils （サラワク・マレーシア熱帯泥炭地における土壌微生物の多様性と垂直分布，および熱帯泥炭土壌から分離した亜酸化窒素（N_2O）の産生および消去に関わる微生物の特徴に関する研究）	9
Nongluck Jaito （ノングラック ジャイトー）	Function, structure, and application of microbial enzymes related to CE-MGP pathway （微生物由来 CE-MGP 経路関連酵素の機能，構造ならびに応用に関する研究）	7
Abdul Latif bin Noh （アブドゥル ラティフ ビン ノー）	Analytical study on the peptide sequence-dependent regulatory upstream open reading frame of a tomato homologue of the Arabidopsis *ANAC096* gene （シロイヌナズナ ANAC096 遺伝子のトマトホモログの発現をペプチド配列依存的に制御する上流 ORF の研究）	10
Sheliang Wang （オウ シャリョウ）	UDP-D-galactose-dependent organization of the *trans*-Golgi network & mechanisms for polar localization of boric acid channels in *Arabidopsis thaliana* （シロイヌナズナにおける UDP-D-ガラクトースに依存したトランスゴルジ網の構造維持およびホウ酸チャネルの細胞膜内偏在機構）	10

Student's Name	Doctoral Dissertation title	Lab. No.
Ines Septi Arsiningtyas (イネス セプティ アルシニングティアス)	Search for α-glucosidase inhibitors from Indonesian indigenous plants (インドネシア産植物からの α-グルコシダーゼ阻害物質の探索研究)	4
Yanxia Nie (ヤンシャ ニー)	Physiological and genetic traits of the N_2O-emitting Proteobacteria isolated from latent hot spots for N_2O emission, and their response to environmental factors including plant polyphenols (潜在的 N_2O 放出ホットスポットから分離した N^2O 放出能をもつグラム陰性細菌の細菌生理学的および分子遺伝学的性状と，植物ポリフェノールを含めた環境諸因子に対するそれら分離細菌株の応答)	9
Mohammad Nazrul Islam Bhuiyan (モハンマド ナズルール イスラム ブイヤン)	Growth factors for uncultured bacteria and structural requirements of quercetin for inhibiting advanced glycation end products(AGEs) formation (難培養バクテリアに対する増殖因子並びに糖化反応阻害物質としてのケルセチンの構造要求性)	12
Mengjie Li (リ メンジェ)	Factors controlling episodic soil CO_2 and N_2O emissions from managed grassland and corn field in southern Hokkaido, Japan (北海道南部の草地，飼料畑土壌からの突発的 CO_2 および N_2O 排出の制御因子)	2
Xi Li (シーリー)	Modeling soil CO_2 and N_2O emissions and estimating carbon budget in agro-ecosystem at regional scale (土壌からの CO_2 および N_2O 排出モデルの構築と地域レベルでの農業生態系炭素収支の見積もり)	2
Atfritedy Limin (アトフリテディ リミン)	Effect of manure application on carbon budget in managed grassland and corn field in southern Hokkaido, Japan (北海道南部の草地と飼料畑における炭素収支への堆肥施与効果)	2
2016(H28)		
Qingnan Chu 褚　清南(チュウ チンナン)	Study on dynamics of ionome and nitrogen in plant and soil (植物と土壌におけるイオノームおよび窒素の動態に関する研究)	1
Anna Hairani (アンナ ハイラニ)	Effect of biochar application on soil and plant (バイオ炭施用が土壌および植物生育に及ぼす効果)	1
Worawan Sornkom (ソンコーム ウォラワン)	Analysis on expression controlling mechanism of AVR-Pia, an avirulence effector in *Magnaporthe oryzae* (イネいもち病菌の非病原性エフェクター AVR-Pia の発現制御メカニズムの解析)	5
Yudistira Wahyu Kurnia (ユディスティラ ワヒュ クルニア)	Identification, molecular characterization, and application of a novel virus isolated from mosquito larvae in Okushiri Island, Japan (北海道奥尻島において蚊幼虫から分離された新規ウイルスの同定，性状解析および利用)	14
Yeonmi Lee (イ ヨンミ)	Improvement of bile acid-induced disorders by synbiotics (胆汁酸誘導性病態に及ぼすシンバイオティクスの改善作用)	3
Lei Wang (オウ ライ)	(Trifluoromethyl) phenyldiazirines in photoaffinity labeling: Improved synthesis, functionalization, and application (トリフルオロメチルジアジリンによる光アフィニティーラベル：改良合成，機能化およびその利用)	9
Xiaomeng Zhang (チョウ ギョウホウ)	Performance of hybrid subsurface flow constructed wetland system used for high content wastewater treatment (高濃度排水の浄化処理を行うハイブリッド伏流式人工湿地システムの性能に関する研究)	24
Fiolenta Marpaung (フィオレンタ マルパング)	Quantitative evaluation of radiation change and vegetation recovery during and after fires in tropical peatland (熱帯泥炭地における火災による放射環境の変化と火災後の植生回復の定量的評価)	25
Xiangyu You (ユウ ショウウ)	Preparation of lignin-based activated carbon fibers and their application to electrodes for electric double layer capacitor (リグニンを原料とする活性炭素繊維の調製と電気二重層キャパシタ用電極への応用)	13
Glenn Robert Burns (グレン ロバート バーンズ)	WWOOF activities in Japan: Potential for edifying and non-monetary tourism (日本の WWOOF 活動：啓発的・非貨幣的ツーリズムのポテンシャル)	22
2017(H29)		
Evgenios Agathokleous (エフゲニオス アガトクレウス)	Influence of elevated CO_2 and ground-level O_3 on native deciduous trees in Japan (北東アジアの落葉樹に対する地表付近の CO_2 とオゾンの影響力)	27
Ning Zigong 宁　兹功(ニン ズゴン)	Strontium adsorption and penetration in clays (ストロンチウムの粘土中における吸着と浸透)	26
Sarinya Tawthep (サリンヤ タオテープ)	Isolation of the novel secondary bile acid-producing bacteria from rat cecal contents and clarification of their interaction related to deoxycholic acid formation (ラット盲腸内容物からの新規二次胆汁酸生成細菌の単離とデオキシコール酸生成に関わる細菌間相互作用の解明)	11
Putri Pratiwi (プトリ プラティウィ)	Jasmonates in the model lycophyte *Selaginella moellendorffii*: biosynthesis, metabolism, and functions (イヌカタヒバにおけるジャスモン酸類の同定および機能解析)	8
Seongjin Oh (オウ ソンジン)	Evaluation of ginkgo fruit as a new feed additive candidate for ruminant animals (反芻家畜における新規飼料添加物候補ギンナン果肉の評価)	18
Eun Jin Jeon (ジョン ウンジン)	The study of salicylic acid-mediated defense responses by a tobacco calmodulin-like protein (タバコカルモジュリン様タンパク質により誘導されるサリチル酸を介した防御応答に関する研究)	15

Student's Name	Doctoral Dissertation title	Lab. No.
Min Ma （マ ミン）	Catalytic mechanism of three α-glucosidases belonging to glycoside hydrolase family 31 （Glycoside hydrolase family 31 に属する 3 つの α-glucosidase の触媒機構に関する研究）	6
Gahyun Joe （ジョ ガヒョン）	Modulation of inflammatory responses by megalo-type isomaltosaccharides （イソマルトメガロ糖による炎症反応の調節作用）	3
Ningning Cheng （チェン ニンニン）	Production of high concentration bioethanol by fed-batch type simultaneous saccharification and fermentation of lignocellulosics with amphipathic lignin derivatives （両親媒性リグニン誘導体を用いたリグノセルロースの同時糖化発酵による高濃度バイオエタノールの製造）	13
Ikabongo Mukumbuta （ムクンブタ イカボンゴ）	Carbon, nitrogen and greenhouse gas flux dynamics in cornfield and managed grassland: Effects of land-use change, manure management and liming （飼料畑および草地における炭素，窒素，温室効果ガス動態：土地利用，堆肥施与，酸性矯正の影響）	2
Cong Shi 石　　聡（セキ サト）	Physiological and stoichiometry study on foliar nutrients and defensive characteristics of representative deciduous broad-leaved tree species in northern Japan under environmental changes （変動環境における北日本の落葉広葉樹の葉成分と防御特性に関する生理的・化学量論的研究）	27

Research Achievements of Students in the Program

Number of	1st period	2nd	3rd	4th	Total
Original paper	27	112	131	152	**422**
Book and review	1	3	4	5	**13**
Patent	1	0	2	0	**3**
Research Conference Presentation (international)	17	40	102	161	**320**
Research Conference Presentation (domestic)	53	67	164	187	**471**
Award (Research Encouragement Prize etc.)	0	4	4	8	**16**
Award (Outstanding Presentation Award, Excellent Paper Award etc.)	2	3	11	14	**30**
Total number of students for each period	48	44	71	70	

	Original paper	**Academic presentation**
1st period:	1997 to 2002	1997.10 to 2002.9（for 5 years）
2nd period:	2003 to 2007	2002.10 to 2007.3（for 4.5 years）
3rd period:	2008 to 2013	2007.4 to 2013.3（for 6 years）
4th period:	2014 to 2017	2013.4 to 2017.9（for 4.5 years）

The research achievements of each laboratory can be found on the official website of the English Program.
http://www.agr.hokudai.ac.jp/en/spgp/

Front yard, Graduate School of Agriculture (November 2, 2005); photo by Prof. Dr. YOKOTA Atsushi
Photo data: Nikon F2, AI Nikkor 35 mm f/2S, Sensia 100

Main building, Graduate School of Agriculture (November 2, 2005); photo by Prof. Dr. YOKOTA Atsushi
Photo data: Nikon F2, AI Nikkor 35 mm f/2S, Sensia 100

Commemorative Photo

A commemorative photo taken in 2007.

A commemorative photo taken in 2008.

A commemorative photo taken in 2009.

A commemorative photo taken in 2010.

A commemorative photo taken in 2011.

A commemorative photo taken in 2012.

A commemorative photo taken in 2013.

A commemorative photo taken in 2014.

A commemorative photo taken in 2015.

A commemorative photo taken in 2016.

Acknowledgements

It is a tremendous pleasure for us to publish this commemorative bulletin in celebration of the 20th anniversary of the establishment of the Special Post-graduate Program in English. Since it first started in October 1997, this program has undergone four phases of development that have made it what it is today. When we consider the total number of classes in English and the accelerated effect it has had on international student exchanges, we are once again reminded of the significance of this program's 20-year history.

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Night view, Graduate School of Agriculture (February 27, 2008); photo by Prof. Dr. YOKOTA Atsushi
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