

平成28年10月入学

平成29年 4月入学

山口大学大学院連合獣医学研究科  
博士課程

## 学 生 募 集 要 項

ADMISSION PROCEDURE FOR THE DOCTORAL COURSE OF  
THE UNITED GRADUATE SCHOOL OF  
VETERINARY SCIENCE, YAMAGUCHI UNIVERSITY,  
OCTOBER 2016 ENTRANCE AND APRIL 2017 ENTRANCE

構 成 大 学

鳥 取 大 学

山 口 大 学

鹿 児 島 大 学

COOPERATING UNIVERSITIES :

TOTTORI UNIVERSITY

YAMAGUCHI UNIVERSITY

KAGOSHIMA UNIVERSITY

山口大学大学院連合獣医学研究科

The United Graduate School of Veterinary Science,  
Yamaguchi University

〒753-8515 山口市吉田1677-1

Yoshida 1677-1, Yamaguchi 753-8515

TEL (083) 933-5937 (直通)

FAX (083) 933-5938

<http://ds22.cc.yamaguchi-u.ac.jp/~renju/>

# Admission Policy

1. 豊かな人間性と倫理性を備えた, 社会の多方面で活躍と貢献が出来る高級技術者または研究者として明確な目的意識とモチベーションを有する人。
2. 目的を達成するために向上心と強い意志を持ち続け, さらにチャレンジング精神や好奇心の旺盛な人。

## 入学者選抜の基本方針

教育理念・目標に合致した学生を選抜するために, 学力検査 (筆答試験および口述試験), 出願書類, 面接等に基づき, 志願者の能力や資質を総合的に評価して選抜します。また, 入学者の選抜は年2回実施し, 4月または10月入学を選択することができます。

- 1) Be highly motivated and have a clear sense of purpose to contribute to a variety of fields of society as a professional veterinarian or researcher with high humanity and morality.
- 2) Keep his/her ambition and strong will to accomplish objectives as well as a spirit of challenge and curiosity.

## Basic Policy on Applicant Screening

To successfully comply with the Graduate School's educational principles and goals, applicants are screened with academic achievement tests (written and oral), submitted application documents, interviews, and other tests for assessment of their skills and qualifications. Applicant screening is conducted twice a year, and applicants can enroll in either April or October.

出願書類等については, この学生募集要項において, 必要なため提出していただくものであり, これによって得た個人情報を, 独立行政法人等の保有する個人情報の保護に関する法律, 第9条第2項に規定されている場合を除き, 出願者本人の同意を得ることなく他の目的で使用又は第三者に提出することはありません。

The application documents will not be submitted for any other reasons or to any other persons, unless in the case of an exception set by the Private Protection Law (the ninth article) of Yamaguchi University.

## 入学試験日程

### ○平成28年10月入学

事 項	日 程
入学試験出願資格申請	平成28年7月8日(金)～7月22日(金)
出 願 期 間	平成28年8月3日(水)～8月9日(火)
試 験 日	平成28年9月1日(木)
合 格 発 表	平成28年9月15日(木)
入 学 手 続	平成28年9月20日(火)～9月23日(金)

### ○平成29年4月入学(第1次募集)

事 項	日 程
入学試験出願資格申請	平成28年7月8日(金)～7月22日(金)
出 願 期 間	平成28年8月3日(水)～8月9日(火)
試 験 日	平成28年9月1日(木)
合 格 発 表	平成28年9月15日(木)
入 学 手 続	平成29年2月27日(月)～3月3日(金)

### ○平成29年4月入学(第2次募集)

事 項	日 程
入学試験出願資格申請	平成28年12月19日(月)～平成29年1月4日(水)
出 願 期 間	平成29年1月16日(月)～1月20日(金)
試 験 日	平成29年2月7日(火)
合 格 発 表	平成29年2月23日(木)
入 学 手 続	平成29年2月27日(月)～3月3日(金)

\*第2次募集は、第1次募集の状況により実施しない場合があります。

\*第2次募集実施の有無については、第1次募集合格発表後に本研究科ホームページ(<http://ds22.cc.yamaguchi-u.ac.jp/~renju/v04.html>)で公表する予定です。

## Entrance Examination Schedule

### ○Admission in October 2016

Item	Schedule
Entrance examination eligibility application	July 8 (Fri.) to July 22 (Fri.), 2016
Examination application period	August 3 (Wed.) to August 9 (Tue.), 2016
Examination date	September 1 (Thu.), 2016
Announcement of results	September 15 (Thu.), 2016
Admission procedures	September 20 (Tue.) to September 23 (Fri.), 2016

### ○Admission in April 2017 (First round)

Item	Schedule
Entrance examination eligibility application	July 8 (Fri.) to July 22 (Fri.), 2016
Examination application period	August 3 (Wed.) to August 9 (Tue.), 2016
Examination date	September 1 (Thu.), 2016
Announcement of results	September 15 (Thu.), 2016
Admission procedures	February 27 (Mon.) to March 3 (Fri.), 2017

### ○Admission in April 2017 (Second round)

Item	Schedule
Entrance examination eligibility application	December 19 (Mon.), 2016 to January 4 (Wed.), 2017
Examination application period	January 16 (Mon.) to January 20 (Fri.), 2017
Examination date	February 7 (Tue.), 2017
Announcement of results	February 23 (Thu.), 2017
Admission procedures	February 27 (Mon.) to March 3 (Fri.), 2017

\* The second round may not be conducted depending on the results of the first round.

\* Whether the second round is conducted or not is planned to be announced on the graduate school website (<http://ds22.cc.yamaguchi-u.ac.jp/~renju/v04.html>) after the announcement of results for the first round.

# ADMISSION

## 1. Student Admission

Course	Student admission	
	October 2016 entrance	April 2017 entrance
Veterinary Science	Some students	12

Some students will be admitted by an entrance examination.

## 2. Admission Requirements

1) Applicants who fall into one of the following categories will be eligible for admission:

- (1) Those who have already graduated from a veterinary school after completing a six-year course (including those who will do so by March 2017 for April 2017 entrance)
- (2) Those who have graduated from a medical or dental school (including those who will do so by March 2017 for April 2017 entrance)
- (3) Those who have completed 18 years of school education abroad (including those who will do so by September 2016 and March 2017 for October 2016 entrance and April 2017 entrance, respectively)
- (4) Those who have completed 18 years of school education abroad by taking subjects through a correspondence course of foreign countries in Japan (including those who will do so by September 2016 and March 2017 for October 2016 entrance and April 2017 entrance, respectively)
- (5) Those who have completed 18 years of foreign school education in Japan designated by the Minister of Education, Science and Culture of Japan
- (6) Individuals who have been granted a degree equivalent to a bachelor's degree by an overseas university or other overseas school (provided that the comprehensiveness of such educational research activity is evaluated by a person who is certified by the government or a relevant authority of the country, or that it is separately specified as equivalent by the Minister of Education, Culture, Sports, Science and Technology) following completion of a course with a length of at least 5 years (This may involve the completion of a course through correspondence classes conducted in Japan by the overseas school, or the completion of a course on the above-specified research at an education facility designated by the school education system in the relevant country.)
- (7) Those designated by the Minister of Education, Science and Culture of Japan
- (8) Those who have entered the graduate schools of other universities according to the second clause of Article 102 of the School Education Law and were admitted by the UVY on the basis of their academic abilities
- (9) Those who are 24 years or older and were admitted by the UVY on the basis of their having abilities equivalent to those of the graduates of veterinary, medical, or dental schools; their abilities are determined through the United Graduate School's special entrance examination

2) In addition to the conditions mentioned above, the applicants who fall into one of the following categories will be considered by the UVY as having the necessary credits with an excellent record:

- (1) Those who have studied at a veterinary school on a six-year course for more than 4 years
- (2) Those who have studied at a medical or dental school for more than 4 years
- (3) Those who have completed 16 years of school education abroad (including those who will do so by entrance)
- (4) Those who have completed 16 years of school education abroad by taking subjects through a correspondence course of foreign countries in Japan (including those who will do so by entrance)
- (5) Those who have completed 16 years of foreign school education in Japan designated by the Minister of Education, Science and Culture of Japan

Note 1. Those designated by the Minister of Education, Science and Culture of Japan are required to possess one of the following qualifications:

- (1) They should have graduated from a medical or dental school according to Article 388 in the former School Education Ordinance.
- (2) They should have graduated from the National Defense Medical College according to Article 164 in the Establishment Law of the Japan Ministry of Defense.
- (3) They should have acquired a degree equivalent to a master's or should have studied for more than 2 years on a doctoral course without a course division composed of two-year and three-year courses and should have received more than 30 credits and instruction of research. Further, their current research accomplishments should be authorized by the UVY; they should also be certified by the University as applicants having higher qualifications than those who have completed courses in medical, dental, or veterinary schools.
- (4) They should have been devoted to research in universities or institutes for more than 2 years after having graduated from a university or college (excluding medical, dental, and veterinary schools) or should have completed 16 years of educational courses at a foreign school. Further, they should be authorized with accomplishments in the present research by the UVY as applicants having qualifications higher than those who have completed courses in a medical, dental, or veterinary school.

Note 2. Applicants who intend to apply in accordance with qualifications 1)-(7),(8),(9) and 2) must undergo before application an individual evaluation of their scientific abilities in relation to the requirements for admission, as described in section 9.

### 3. Application Procedure

#### 1) Application period

The deadlines for receiving the applications and all supporting documents are as follows:

October 2016 entrance and April 2017 entrance (First round)	August 3 (Wed.) to August 9 (Tue.), 2016
April 2017 entrance (Second round)	January 16 (Mon.) to January 20 (Fri.), 2017

Operating hours: 8:30 to 17:15 on weekdays

The documents must arrive by 17:15 of the last day for an application period.

#### 2) Application process

Applications should be submitted in person or by mail. If the application form is accompanied by the other application materials, they should be sent by registered special delivery with "Application Form Enclosed" written on the envelope (preferably in red ink), to the following address:

#### 3) The Administration Office

The United Graduate School of Veterinary Science, Yamaguchi University.

1677-1 Yoshida, Yamaguchi-shi 753-8515 (Japan)

Tel: +81-83-933-5937

#### 4) Application documents

- (1) Application form: The application form issued by the UVY should be used, and it should be filled out in English.
- (2) Curriculum vitae: The form issued by the UVY should be used, and it should be filled out completely.
- (3) A copy of the degree certificate regarding the completion of the final school course or a master's course should be provided.
- (4) Academic transcript: A copy of the official transcript of the latest degree certified by the president or dean of the last school from which the applicant graduated should be attached.
- (5) Photograph: Two identical photographs taken within the last three months before the application should be provided for the designated sections of the application form and the admission card. The photographs should be portrait-sized (4×3 cm).
- (6) Application fee: 30,000 yen.  
\* Foreign students with a scholarship from the Japanese government are exempt from paying the application fee.  
\* The application fee should be deposited at the post office indicated by Yamaguchi University. The original remittance receipt should be attached to the reverse side of the application form. The section of the order form to be filled out by the recipient must be left blank.
- (7) Copy of the graduation thesis: A copy of the graduation thesis or the master's degree thesis along with a summary of about 1,200 words should be submitted. A4-sized paper should be used, and the cover issued by the UVY should be attached to the summary. In the case of an applicant whose application qualification falls under 2, the "Research results" submitted for authorization of the applicants will be substituted.
- (8) Preferred research outline: The applicant should explain his/her preferences, reasons, and research plans with regard to the school. (Attach the cover issued by the UVY along with the statement paper.)
- (9) Employment letter if applicable: If the applicant is working for a public office or company, a letter of permission written by the head at the place of employment should be submitted. (The form issued by the UVY should be used.)
- (10) Certificate of registration as a foreigner: Foreign applicants should submit a copy of their "RESIDENCE CARD" issued by the Immigration Bureau of Japan.
- (11) Proof of funds for a copy of the application to the Japanese government to cover expenses: Applicable to foreign students who have obtained a Japanese government scholarship.
- (12) Mailing label: The form issued by the UVY should be used, and it should be filled out.

Note: It is not necessary to resubmit application documents that have already been submitted for the qualification of application.

#### 5) Refund of the application fee

1) The application fee will not be refunded for any reason, except in the following cases:

- (1) the fee has been paid without any application
- (2) the fee has been paid twice
- (3) rejection of the application

2) Procedure for refund

In the case of (1) and (2), please contact the admission office at the address provided in 3.(3). After this, a bill for the application fee refund will be sent to you. This bill must be filled out and returned to the Division of Accounting, Department of Finance, Yamaguchi University, at the address mentioned below. In the case of (3), the bill for the application fee refund will be sent to you along with the application form.

(Contact)

The Division of Accounting, Department of Finance, Yamaguchi University.

1677-1 Yoshida, Yamaguchi-shi 753-8511, Japan

Tel: +81-83-933-5098

## 4. Selection of Applicants

Applicants will be selected on a competitive basis.

The admission of an applicant will be determined on the basis of his/her written and oral test scores and academic record.

However, foreign students may be selected on the basis of their application documents and need not take the written or oral tests in Japan.

1) Examination of Academic Subjects

(1) Written examination:

Foreign language: English

Note 1. Stedman's medical dictionary and an English-Japanese dictionary will be provided by the administration office.

Note 2. Foreign students can choose between Japanese and English essays.

(2) Oral examination:

The oral test will concern the student's recent research contents (graduation thesis, master's degree, research results, case reports, or a substitute) and the statement of his/her study plan in the UVY. The oral presentation will take about 10 minutes and the questions and discussions will take approximately 20 minutes. (Please bring your own PC, and use the LCD projector to give a presentation.)

2) Admission of foreign students based on their application documents

Those who are unable to come to Japan at the time of the entrance examination may be selected on the basis of their application documents.

Note 1. Those who wish to undergo the abovementioned selection procedure without taking the examinations are required to have sufficient consultations with the major supervisor under whom they will study and for supervisor confirmation before the time of application.

Note 2. Those working in a public office or company must submit recommendation letters written by two academic advisors or heads at the place of employment, and preferred supervisor.

## 5. Time, Date, and Place of Examination

October 2016 entrance and April 2017 entrance (First round)	September 1 (Thu.), 2016	Written Test 10:00~12:00 Foreign Language (Japanese or English essay) Oral Test 13:30~	United Graduate School of Veterinary Science Building, Yamaguchi University
April 2017 entrance (Second round)	February 7 (Tue.), 2017		

\* The location will be announced when the examination admission card is sent.

## 6. Announcement of the Successful Applicants

List of the successful applicants admitted to the program will be posted on the announcement board at the Faculty of Agriculture, **Yamaguchi University**, at 10:00 am on the following dates:

October 2016 entrance and April 2017 entrance (First round)	September 15 (Thu.), 2016
April 2017 entrance (Second round)	February 23 (Thu.), 2017

In addition, a separate notice will be mailed to each successful applicant.

## 7. Enrollment Procedure

1) Notification of the submission of registration and documents

The time of registration is from:

October 2016 entrance	September 20 (Tue.) to September 23 (Fri.), 2016
April 2017 entrance	February 27 (Mon.) to March 3 (Fri.), 2017

The documents must arrive by 17:15 of the last day for an application period.

2) Documents and procedural instructions will be provided to each successful applicant along with a letter of notification.

3) Course fees

(1) **Entrance fee: 282,000 yen**

(2) **Tuition fee: 267,900 yen for the first semester (535,800 yen per year)**

Note: The total annual tuition fee can be paid when making the payment for the first semester fee. When the tuition fee is revised during the course of the study, the revised fee after the admission publication will have to be paid. When the entrance and tuition fees are revised after completion of the enrollment procedure, the difference in the required fee must be paid.

## 8. Important Notes

- (1) Before submitting the application, it is desirable for the applicant to consult with the major professor under whom the applicant wishes to study.
- (2) Applicants must carry the entrance examination card during the examination.
- (3) No change in the documents will be allowed after submission of the application.
- (4) The application fee, once received, will not be refunded.
- (5) Requests for further information related to admission or registration should be directly made to the Student Affairs Section, The UVY. (Refer to item 3.(3.)). A self-addressed envelope with appropriate stamps, including registered mail charge if required, should be included.

## 9. Authorization of Applicants Under Items 1)-(7),(8),(9) and 2)

Authorization will be issued upon submission of the following papers.

However, the oral test will be omitted for those applicants who are able to show that their scholastic level is equivalent to or higher than that of students falling under the previously mentioned categories.

### 1) Papers to be submitted:

- (1) Application for certification of the applicant: The form issued by the UVEY should be used.
- (2) Curriculum vitae: The form issued by the UVEY should be used.
- (3) Certificate of research experience: The form issued by the UVEY should be used.
- (4) Research results: Attach the cover issued by the UVEY along with a summary of about 1,200 words.
- (5) Research materials: The applicants should submit any theses, books, academic reports, academic lectures, patents, etc., that they have produced.
- (6) Academic record: This record must be certified by the president or dean of the last school from which the applicant graduated.

### 2) Submission Period

The abovementioned papers will be accepted on the following dates:

<b>October 2016 entrance and April 2017 entrance (First round)</b>	<b>July 8 (Fri.) to July 22 (Fri.), 2016</b>
<b>April 2017 entrance (Second round)</b>	<b>December 19 (Mon.), 2016 to January 4 (Wed.), 2017</b>

The documents must arrive by 17:15 of the last day for an application period.

### 3) Address

The United Graduate School of Veterinary Science, Yamaguchi University.  
1677-1 Yoshida, Yamaguchi-shi 753-8515 (Japan)  
Tel: +81-83-933-5937

4) Applicants taking the oral examination will be separately notified of the date.

### 5) Authorization

The result of the examination will be mailed to each applicant on:

<b>October 2016 entrance and April 2017 entrance (First round)</b>	<b>August 3 (Wed.), 2016</b>
<b>April 2017 entrance (Second round)</b>	<b>January 16 (Mon.), 2017</b>



## **Outline of the Doctoral Course of the UVY**

### **1. Objective**

The UVY (four-year doctoral course) was established with the joint cooperation of the professors and research facilities of the Departments of Veterinary Science of Yamaguchi University, Tottori University and Kagoshima University. This school aims to train students in research skills and provide them with extensive knowledge, and advanced technical abilities in veterinary science. After graduation, the students will be capable of making significant contributions to future veterinary research, teaching, and practices. This school accepts many foreign students belonging to various countries, especially the developing nations.

### **2. Diploma Policy**

The UVY aims to develop human resources with advanced professional competence in veterinary science and abundant general knowledge, as well as flexible thoughts, wide perspectives, and a strong will to work to accomplish goals. A student who has earned a certain number of credits within a given enrollment term and has successfully achieved the knowledge and skills listed below to meet the UVY goal for human resource development will be given the degree of Doctor of Philosophy after passing the screening of academic dissertations and a final examination.

1. State-of-the-art scientific technologies in veterinary science and the capacity for application
2. Awareness of issues based on scientific understanding in life and logical thinking, as well as the capability to respond to or solve problems associated with veterinary science as an advanced specialist or researcher
3. Practical English and sufficient communication skills to respond to the globalization of research in veterinary science and medicine
4. Skills as a leader to actively participate in society

### **3. Characteristics of Education and Research**

1. Students are required to select a major professor from among the teaching staff of the four universities. This is regulated by the UVY, which decides on the major professor.
2. Students will be placed at universities to which their major professors belong, and they can pursue their studies for the doctoral degree under the guidance of their professors. Students can also use the university facilities.
3. One major professor and two other professors (one from the native university and the other from a different university) will take charge of each student).

### **4. Curriculum policy**

The educational curricula of the UVY are created in accordance with the following policies in order to develop human resources with advanced professional competence in veterinary science and abundant general knowledge, as well as flexible thoughts, wide perspectives, and a strong will to work to accomplish goals.

1. The UVY curricula are composed of the areas of Basic Veterinary Medicine, Pathological and Preventive Veterinary Medicine, and Clinical Veterinary Medicine, and offer lectures, practicums, and laboratory sessions in each of these areas. The student is required to take mandatory lectures, practicums, and laboratory sessions that are instructed by his or her main instructor. In these courses, the student is expected to acquire the knowledge and skills required to become an advanced specialist or researcher.
2. For a broader range of knowledge, the student is also given opportunities to learn professional expertise by taking selective courses taught by instructors other than his or her main instructor.
3. As a mandatory credit, the student is required to participate in a joint seminar in order to acquire the educational foundations shared by advanced specialists and researchers.

## **5. Content of the United Departments**

**Course: Veterinary Science**

### **Basic Veterinary Science**

The united departments are concerned with the study of the morphology and physiology of vertebrates; they are involved with not only the fundamental study of preventive or clinical veterinary sciences but also various areas of life sciences. The various methodologies used in the departments are classified into two main areas: one pertains to the morphological study of living organisms using electron microscopes, etc., and the other pertains to their functional study, using electrophysiological, biochemical, or pharmacological methods. The departments in either area offer excellent educational facilities and opportunities for advanced research.

### **Pathological and Preventive Veterinary Science**

This department has teaching staff who specialize in veterinary microbiology, veterinary immunology, and veterinary pathology. The teaching staff elucidates basic issues, for example, the prevention and therapy of veterinary infectious diseases, veterinary immunological diseases, tumors, and veterinary metabolic diseases, by using advanced research methods such as molecular cell biology and genetic techniques. The results are applied to the fields of public health for the preservation of human health and animal hygiene and for the improvement of productivity.

### **Clinical Veterinary Science**

This department aims at contributing to human society by improving the management practices pertaining to various animals such as farm animals, companion animals, aquatic animals, and laboratory and zoo animals. In this regard, this department teaches theories and techniques of veterinary clinical immunology, clinical pathology, radiology, anesthesiology, neurophysiology, and molecular biology and aims to establish progressive diagnoses and therapeutics. Further, investigation of pathogenesis is conducted and the development of prophylaxes is studied in this department.

## **6. Requirement for Graduation**

The doctoral degree requires more than 30 credits in the required subjects (Special Advanced Lecture and Special Advanced Seminar and Special Advanced Experiment: more than 20 credits, Common Seminars: 9 credits, Special Seminar: 1 credit ), an original thesis written under due supervision by designated academic advisors, and successful completion of the examinations for the degree itself.

The graduate course usually takes four years; however, if a student has excellent grades, it may be shortened to three years.

## **7. Degree**

The UVY awards the Doctoral Degree of Veterinary Sciences for the successful completion of the approved graduate course and research.

**Table of the Major Chairs and the Instruction and Research Fields of Supervisors**

**COURSE OF BASIC VETERINARY SCIENCE**

Name of Major Supervisor (University)	Course Subject	Field of Instruction and Research	
		Speciality	Content
Yoshinao HOSAKA (TT)	Basic Veterinary Science I	Glycobiology	Studies on the regulation of proteoglycans in the mechanism of stem cell fate-decision and differentiation
Yasuo KISO (YG)	Basic Veterinary Science I	Histochemistry	Studies on function and differentiation of immune cells at the feto-maternal interface during successful pregnancy
Ken KUSAKABE (YG)	Basic Veterinary Science I	Functional anatomy	Comparative morphology and functional cytology in the animal placenta
Kiyoshi KANO (YG)	Basic Veterinary Science I	Developmental genetics	Studied on the body size determination mechanism in mammals
Mitsuharu MATSUMOTO (KGS)	Basic Veterinary Science I	Comparative Anatomy	Functional and morphological studies on morphogenesis and angiogenesis in mammary gland
Takashi TAKEUCHI (TT)	Basic Veterinary Science I	Mucosal Immunology	Studies on mucosal immunity
Tohru KIMURA (YG)	Basic Veterinary Science I	Laboratory Animal Medicine	Dermatology and plastic surgery in laboratory animals, and clinicopathology in companion animals
Izumi SHIBUYA (TT)	Basic Veterinary Science II	Cellular Physiology	Analysis of the regulatory mechanism of neuronal, neuroendocrine, and endocrine cells
Naomi WADA (YG)	Basic Veterinary Science II	Neurophysiology	Studies on neuronal control of body balance during terrestrial locomotion in vertebrates and effects of locomotion on the brain
Yasuaki KAWASAKI (KGS)	Basic Veterinary Science II	Sensory Physiology	Electrophysiological and behavioral physiological analyses on auditory and visual senses in mammals
Naoki KITAMURA (TT)	Basic Veterinary Science II	Cellular Physiology	Analysis of the regulatory mechanism of excitation of mammalian and avian neurons

## COURSE OF BASIC VETERINARY SCIENCE

Name of Major Supervisor (University)	Course Subject	Field of Instruction and Research	
		Speciality	Content
Toshio OHTA (TT)	Basic Veterinary ScienceIII	Molecular Pharmacology	Pharmacological studies on the molecular cellular functions of nociception and sensory mechanisms
Koichi SATO (YG)	Basic Veterinary ScienceIII	Molecular and Cellular Pharmacology	Cross talk of smooth muscle cells, immune cells and myofibroblasts in inflammatory diseases
Atsushi MIYAMOTO (KGS)	Basic Veterinary ScienceIII	Comparative Pharmacology	Effects of intrinsic vasoactive substances and natural products on brain circulation system
Yoshiaki YAMANO (TT)	Basic Veterinary ScienceIII	Veterinary Biochemistry	Effect of endocrine disruptors on mammalian spermatogenesis
Yoshimi YAMAMOTO (YG)	Basic Veterinary ScienceIII	Cellular Biochemistry	Cell and molecular biological research on the mechanisms of intracellular protein turnover
Akikazu FUJITA (KGS)	Basic Veterinary ScienceIII	Molecular Cell Biology	Studies on molecular cell biology at the ultrafine structure level
Hiroaki KANOUCHI (KGS)	Basic Veterinary ScienceIII	Molecular Pathobiology	Studies on molecular mechanisms of diseases based on amino acid disorders
Atsushi ASANO (KGS)	Basic Veterinary ScienceIII	Laboratory Animal Science	Studies on the regulatory mechanism of gene expression in male germ cells
Takuro ARIMURA (KGS)	Basic Veterinary ScienceIII	Medical Genomics	Molecular pathogenesis of cardiovascular disease (idiopathic cardiomyopathy and arrhythmia)

TT : Tottori University, YG : Yamaguchi University, KGS : Kagoshima University,

NARO : National Agriculture and Food Research Organization

JRA : The Japan Racing Association

## COURSE OF PATHOLOGICAL AND PREVENTIVE VETERINARY SCIENCE

Name of Major Supervisor (University)	Course Subject	Field of Instruction and Research	
		Speciality	Content
Ken MAEDA (YG)	Pathological and Preventive Veterinary Science I	Infectious Diseases	Studies on the pathogenicity of veterinary infectious diseases and the control of the diseases
Kazuo NISHIGAKI (YG)	Pathological and Preventive Veterinary Science I	Virology	Understanding the molecular basis for the pathogenesis of animal virus-induced diseases
Toshiyuki MURASE (TT)	Pathological and Preventive Veterinary Science I	Veterinary Bacteriology	Ecological, genetic and pathogenesis studies on bacteria
Kozo TAKASE (KGS)	Pathological and Preventive Veterinary Science I	Infectious Diseases of Animals	Aetiological and immunological studies on viruses and bacteria isolated from domestic/wild animals
Takehisa CHUMA (KGS)	Pathological and Preventive Veterinary Science I	Microbiology in Veterinary Public Health	Studies on prevention and control of pathogens in veterinary public health
Tetsuya TANAKA (KGS)	Pathological and Preventive Veterinary Science I	Molecular Immunology	Analysis of characterization and immunological function on the tick-bioactive molecule
Makoto YAMAKAWA (NARO)	Pathological and Preventive Veterinary Science I	Veterinary Virology	Studies on epidemiology, diagnosis and prevention of viral diseases of livestock
Yuzaburo OKU (TT)	Pathological and Preventive Veterinary Science I	Veterinary Parasitology	Studies on prevention and control of zoonotic parasitic diseases
Kyoko KOHARA (KGS)	Pathological and Preventive Veterinary Science I	Molecular Virology	Studies on viral pathogenesis and application for prevention
Takashi YAMANAKA (JRA)	Pathological and Preventive Veterinary Science I	Infectious Diseases	Studies on the pathogenicity of equine infectious diseases and the control of the diseases
AYA MATSUU (KGS)	Pathological and Preventive Veterinary Science I	Infectious Diseases	Studies on viral diseases of animals

## COURSE OF PATHOLOGICAL AND PREVENTIVE VETERINARY SCIENCE

Name of Major Supervisor (University)	Course Subject	Field of Instruction and Research	
		Speciality	Content
Makoto OZAWA (KGS)	Pathological and Preventive Veterinary Science I	Virology	Basic and applied research on influenza and other viral diseases
Hidekazu NIWA (JRA)	Pathological and Preventive Veterinary Science I	Infectious Diseases	Studies on the prevention, diagnosis, and treatment of equine bacterial and fungal infectious diseases
Tomohide MATSUO (KGS)	Pathological and Preventive Veterinary Science I	Parasitology	Studies on enteric protozoan parasites
Takehito MORITA (TT)	Pathological and Preventive Veterinary Science II	Veterinary Neuropathology	Pathological studies on the various neurological disease of animals
Masahiro MORIMOTO (YG)	Pathological and Preventive Veterinary Science II	Experimental Pathology	Molecular and immunopathological studies on various animal models of diseases
Noriaki MIYOSHI (KGS)	Pathological and Preventive Veterinary Science II	Tumor Pathology	Histopathological studies on various tumors of animals
Yuji SUNDEN (TT)	Pathological and Preventive Veterinary Science II	Veterinary Pathology	Pathological studies to control animal diseases and zoonotic pathogens
Toshihiro ITO (TT)	Pathological and Preventive Veterinary Science III	Epidemiology of Zoonoses	Studies on ecology, genetic evolution, mechanism for host range restriction, and virulence factors of the zoonotic pathogens including their prevention and control
Hiroyuki IWATA (YG)	Pathological and Preventive Veterinary Science III	Veterinary Immunology and Pathobiology	Molecular and immunological studies on immunofunctional and pathbiological evaluation of diseased animals for diagnosis and prevention
Masahisa WATARAI (YG)	Pathological and Preventive Veterinary Science III	Pathogenic Bacteriology	Studies on bacterial pathogenesis and infection control
Tsuyoshi YAMAGUCHI (TT)	Pathological and Preventive Veterinary Science III	Avian Infectious Diseases	Studies on the pathogenicity and control of avian infectious diseases
Takeshi OBI (KGS)	Pathological and Preventive Veterinary Science III	Infectious microbiology	Studies of the infection route and pathogenicity of microorganisms related to the infection of livestock and companion animal

TT : Tottori University, YG : Yamaguchi University, KGS : Kagoshima University,

NARO : National Agriculture and Food Research Organization

JRA : The Japan Racing Association

## COURSE OF CLINICAL VETERINARY SCIENCE

Name of Major Supervisor (University)	Course Subject	Field of Instruction and Research	
		Speciality	Content
Yoshiaki HIKASA (TT)	Clinical Veterinary Science I	Diagnosis and Treatment of Veterinary Internal Medicine	Fundamental and clinical study as to pathophysiology, diagnosis and treatment concerning a variety of disorders in veterinary internal medicine
Masaru OKUDA (YG)	Clinical Veterinary Science I	Molecular Diagnosis of Veterinary Internal Medicine	Studies on molecular diagnosis and treatment in small animal internal medicine
Takuya MIZUNO (YG)	Clinical Veterinary Science I	Clinical and Applied Immunology in Small Animals	Research on pathogenesis, diagnostics and immunotherapy of immune-mediated diseases and cancer in small animals
Mitsuhiro TAKAGI (YG)	Clinical Veterinary Science I	Farm Animal Production Medicine	Fundamental and clinical studies for preventing farm animal diseases
Osamu YAMATO (KGS)	Clinical Veterinary Science I	Clinical Biochemistry	Studies on pathobiology, molecular mechanism, and diagnostic, therapeutic and preventive methods in animal diseases, especially inherited metabolic and hematological disorders
Yasuyuki ENDO (KGS)	Clinical Veterinary Science I	Infectious Diseases in Small Animals	Studies on the pathophysiology and treatment strategy of infectious diseases in small animals
Akira YABUKI (KGS)	Clinical Veterinary Science I	Clinical Cytology	Histological and cytological studies on the pathological mechanisms and diagnostic manners of animal diseases
Hiroshi SATO (YG)	Clinical Veterinary Science I	Parasitology	Biological and epidemiological studies on zoonotic parasites of wild and captive animals
Takashi TAKEUCHI (TT)	Clinical Veterinary Science I	Veterinary Laboratory Medicine	Fundamental and clinical study on the neuronal disease in animals
Akihiko SUGIYAMA (TT)	Clinical Veterinary Science I	Clinical Toxicology	Clinical pathological studies on adverse effects of drugs and chemical substances
Seiji HOB0 (KGS)	Clinical Veterinary Science I	Internal Medicine	Studies on diagnosis, treatment and pathophysiology of internal disease in animal
Kazuki HARADA (TT)	Clinical Veterinary Science I	Clinical Infectious Diseases	Studies on medical diagnosis and therapy for infectious diseases in animals

## COURSE OF CLINICAL VETERINARY SCIENCE

Name of Major Supervisor (University)	Course Subject	Field of Instruction and Research	
		Speciality	Content
Naoki MIURA (KGS)	Clinical Veterinary Science I	Comparative analysis for pathophysiology in veterinary medicine.	Comparative analysis of pathophysiology between veterinary disease and human disease and development of the novel diagnostic and therapeutic strategy in veterinary medicine
Tetsuya YANAGIDA (YG)	Clinical Veterinary Science I	Evolutionary Phylogeny of Parasites	Evolutionary phylogeny of parasites, and its application to parasitic diseases
Yoshiharu OKAMOTO (TT)	Clinical Veterinary Science II	Clinical Oncology	Fundamental and clinical study on development of new treatment technique to tumor in animals
Tomohiro IMAGAWA (TT)	Clinical Veterinary Science II	Veterinary Diagnostic Imaging	Imaging approaches of the central and peripheral neuronal diseases in companion animals
Yasuho TAURA (YG)	Clinical Veterinary Science II	Clinical Immunology	Research on clinical immunology including transplantation, organ preservation, artificial organ, joint diseases, CNS diseases and immune-modulation
Munekazu NAKAICHI (YG)	Clinical Veterinary Science II	Surgical Oncology	Studies on diagnosis and surgical modalities in small animal oncology
Kazuhiro MISUMI (KGS)	Clinical Veterinary Science II	Diagnosis and Treatment of Veterinary Surgery	Fundamental study to determine the clinically significant diagnosis and treatment concerning a variety of disorders in veterinary surgery
Yasuyuki MOMOI (KGS)	Clinical Veterinary Science II	Molecular Diagnosis and therapeutics	Research and development of diagnostic and therapeutic methods for various small animal diseases using molecular biological technique
Makoto FUJIKI (KGS)	Clinical Veterinary Science II	Diagnosis and Treatment of Veterinary Orthopaedics	Research on diagnosis and treatment in veterinary orthopaedics
Kenji TANI (YG)	Clinical Veterinary Science II	Minimally Invasive Surgery	Research of minimally invasive diagnostic and therapeutic procedures for surgical diseases in small animal practice
Tomohiro OSAKI (TT)	Clinical Veterinary Science II	Clinical Oncology	Research on new diagnosis and treatment methods in small animal oncology
Mitsugu HISHINUMA (TT)	Clinical Veterinary Science III	Reproductive Technology	Fundamental and clinical study on animal reproductive technology (IVF-ET)
Hiroya KADOKAWA (YG)	Clinical Veterinary Science III	Reproductive Physiology and Management	Endocrinology, neuroendocrinology, and nutrition in order to develop new, important methods for animal reproduction, preventive medicine, and health management.



## COURSE OF CLINICAL VETERINARY SCIENCE

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Name of Major Supervisor (University)	Course Subject	Field of Instruction and Research	
		Speciality	Content
Chikara KUBOTA (KGS)	Clinical Veterinary ScienceIII	Veterinary biotechnology	Research of animal reproductive technologies in veterinary clinic
Kazuhiro KIKUCHI (NARO)	Clinical Veterinary ScienceIII	Reproductive Biotechnology	Studies on basic reproductive biology and the related technologies

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