

STUDENT ADMISSION INFORMATION FOR 2011 DOCTORAL PROGRAM

KYUSHU DENTAL COLLEGE GRADUATE SCHOOL OF DENTISTRY

Guidelines for the Doctoral Program in the Graduate School of Dentistry at Kyushu Dental College are as follows:

1. ADMISSION REQUIREMENTS FOR APPLICANTS

Applicants must satisfy one of the following conditions:

- (1) Those who have graduated from a university (degree in medicine, dentistry or veterinary medicine) or expect to graduate by March 2011
- (2) Those who have completed 18 years of schooling abroad (or expect to complete by March 2011)
- (3) Those who have been selected for admission by the Japanese Ministry of Education, Culture, Sports, Science and Technology
- (4) Those who have been recognized by our graduate school as having achieved a high level of academic excellence, as stated in the Education Act No. 26 in 1947
- (5) Those who have undergone a special admission's screening and are considered to have achieved an academic level equal to those who have graduated from the university

2. ADMISSION QUOTA: 30

3. SCHOOL/ DIVISION

(1) BASIC DENTAL SCIENCE

Division	Research contents
Biomaterials	<ul style="list-style-type: none"> • Preciseness and biocompatibility of dental restorations • Utility of electrolyzed water in dentistry • Basic and clinical sciences of dental laser • Dental application of finite element methods
Anatomy	<ul style="list-style-type: none"> • Comparative anatomy of the masticatory apparatus • Origin of the Japanese, based on the dental morphology • Effects of neuropeptides on the bone metabolism • Signal transduction in mammalian taste buds
Oral Histology and Neurobiology	<ul style="list-style-type: none"> • Molecular mechanisms of taste bud development and taste transduction • Neurosteroids as neuromessengers in taste and other sensory transduction • Role of ATP as oral sensation • Ultrastructure and cell biology of dental tissues
Physiology	<ul style="list-style-type: none"> • Central mechanism of thirst sensation • Study on xerostomia • Relationship between oral function and central nervous system • Study on cancer-induced pain
Molecular Signaling and Biochemistry	<ul style="list-style-type: none"> • Molecular mechanisms of bone resorption and bone formation • Molecular mechanisms of NF-κB activation and its function • Cellular and molecular mechanisms of bone invasion by oral cancers
Oral Pathology	<ul style="list-style-type: none"> • Molecular and neuronal-histological study of wound healing after dental procedure • Functional analysis of β-thymosins • Molecular and histopathological analysis of oral diseases
Infections and Molecular Biology	<ul style="list-style-type: none"> • Molecular mechanism of the induction of periodontal diseases • Relationship between periodontopathic bacteria and systemic infectious diseases • Molecular mechanism of the regeneration of periodontal tissues
Applied Pharmacology	<ul style="list-style-type: none"> • Biological evaluation of newly-developed dental formulae • Allergic reactions induced by dental formulae • Central effects caused by organic solvents

(2)CLINICAL DENTAL SCIENCE

Division	Research contents
Comprehensive Dentistry	<ul style="list-style-type: none">• Clinical treatment system based on medical behavior science• Relationship between patient behavior and clinical treatment system• Medical communication• Communication error• Dental education for students and clinical training residents• Application of the social psychology to the dental education
Pulp Biology, Operative Dentistry and Endodontics	<ul style="list-style-type: none">• Analysis of diseases existing on tooth and periapical tissue• Research on regenerative therapy for tooth and periapical tissue• Research on diagnostic and therapeutic devices for tooth and periapical tissue• Study on high-precision treatment of a tooth• Study on therapies of persistent tooth pain
Periodontology	<ul style="list-style-type: none">• Risk factors on aggressive periodontitis• Biomechanics of periodontal membrane• Occlusal traumatism• Oral psychosomatic disorders
Occlusion and Maxillofacial Reconstruction	<ul style="list-style-type: none">• Sleep apnea syndrome and jaw position• Clinical evaluation of dental magnetic attachment• Appliance therapy of TMD patients and brain function• Effects of habitual mastication on mandibular movement
Oral Reconstruction and Rehabilitation	<ul style="list-style-type: none">• Experimental and clinical research of immediate oral implants• Study on xerostomia and physiological function of salivary glands• Study on risk factors of implant treatment• Relationship between parafunction and stress biomarkers• Oral health-related quality of life assessment
Community Oral Health Science	<ul style="list-style-type: none">• Molecular genetic analysis of genes associated with biofilm formation by oral bacteria• Epidemiological study of the relationship between oral and systemic health in elderly subjects• Clinical study of salivary biomarkers related to dry mouth and oral malodor• Study on endopeptidase in oral diseases

General Internal Medicine	<ul style="list-style-type: none"> • Epidemiological research on the relationship between general and oral status in elderly patients • Clinical research on the relationship between dental and general diseases
Developmental Stomatognathic Function Science	<ul style="list-style-type: none"> • Studies on craniofacial growth and development • Studies on maxillofacial growth and development • Analysis of masticatory function of children and adolescent • Studies on mineralization of cartilage and tooth • Studies on expansion of dental arch during primary and mixed dentition periods
Orofacial Functions and Orthodontics	<ul style="list-style-type: none"> • Functional characteristics of open bite and treatment strategy • Mouth breathing and malocclusion • Functional adaptation to the facial height • Bone remodeling mechanism via trigeminal ganglion
Diagnostic Radiology	<ul style="list-style-type: none"> • Improvement of diagnostic accuracy for temporomandibular joint disorder using MRI • Precise visualization of peripheral branches in carotid artery using MR angiography • Clinical applications of dynamic MR sialography for various kinds of salivary glands-related diseases • Molecular biological analysis for signaling of apoptotic cell death induced by ionizing radiation
Maxillofacial Diagnostic and Surgical Science	<ul style="list-style-type: none"> • Gene and/or drug induction therapy for malignant tumor and arthritis • Bone tissue engineering through distraction osteogenesis • New diagnostic system of invasive front in malignant tumor with ultrasonography
Oral and Maxillofacial Reconstructive Surgery	<ul style="list-style-type: none"> • Molecular and biochemical study on pathophysiology of temporomandibular joint • Development of novel alveolar ridge augmentation method using distraction osteogenesis • Basic and clinical research on therapeutic modalities of oral cancer • Development of new bioactive hydroxyapatite-coating material for jaw defect

Dental Anesthesiology	<ul style="list-style-type: none"> • Study on allodynia and hyperalgesia in orofacial region • Study on descending inhibitory system for pain • Action mechanism of stress on higher brain function and effects of anxiolytics
Oral Care and Rehabilitation	<ul style="list-style-type: none"> • Oral care and functional support to disabled patients • Relationship between oral function and general condition • Rehabilitation of eating disorder and dysphagia • Objective assessment on oral mucosa and saliva function • Oral diseases of elderly persons
Surgery	<ul style="list-style-type: none"> • Study on clarifying the mechanism of anticancer drug resistance • Study on sensibility of anticancer drug • Study on VR simulator and training of skills in endoscopic surgery

4. APPLICATION FILING PERIOD, ENTRANCE EXAMINATION, etc.

Date	First examination	Second examination
Application filing period	August 9 th , 2010 ~August 23 th , 2010	December 3 th , 2010 ~December 17 th , 2010
Entrance examination	September 10 th , 2010	January 11 th , 2011
Announcement of successful applicants	October 1 th , 2010	January 28 th , 2011
Registration	October 15 th , 2010 ~October 22 th , 2010	February 10 th , 2011 ~February 18 th , 2011

5. APPLICATION PROCEDURE

(1) An application should be brought between the hours of 9:00 a.m. to 5:00 p.m.(excluding, Saturdays, Sundays and holidays) or sent by mail. It must arrive during the application filing period.

(2) An application should be addressed to:

Kyushu Dental College

Educational Affairs Section of the Graduate School of Dentistry

2-6-1, Manazuru, Kokura-Kita-Ku, Kitakyushu 803-8580 Japan

(3) NECESSARY DOCUMENTS

(The documents preceded by the mark “*” should be submitted in the designated forms of Kyushu Dental College)

- *① Application for admission into the dental research course of the graduate school
- *② Certificate for examination (together with the applicant's photograph)
Photograph length :7 centimeters width: 5 centimeters
the upper half of the body, bareheaded, full-face
one taken within 3 months before application
- ③ Written investigation(Certificate of scholastic marks)
- ④ Certificate of the graduation from the final educational institution
- ⑤ Identification: a copy of a passport
- *⑥ Record of medical checkup
- ⑦ Letter of recommendation of the president of the present university or the university that the applicant graduated from
- ⑧ Either CD or cassette tape to introduce the profile, motivation, etc. of the applicant
- *⑨ Certificate of a state(national) dental examination in the applicant's own country
- ⑩ Financial program of living expenses, etc.(for 4 years)

- ⑪ Application Fee: Application fee of ¥30,000 should be paid by postal remittance (Do not fill in the space for recipient.)
 - ⑫ Return envelope for mailing notice of acceptance and admission form; as for applicants applying by mail, notice of acceptance and admission form will be mailed to the applicant in the return envelope; write the applicant's name, address and postal code on it and attach on it stamps equivalent to ¥500.
- (4) REMINDERS
The application fee will not be reimbursed under any circumstances.

6. SCREENING

- (1) Applicants will be evaluated from a comprehensive review of all information, including results of entrance examination (English, Elected subjects), interview and academic record.
- (2) ENTRANCE EXAMINATION DATE/ TIME , LOCATION, & SUBJECTS

Date	Subjects	Time	Examination location
First Semester Examination September 10 th , 2010	English examination	9:00~10:00	Kyushu Dental College
	Field of specialty: the main subject	10:10~11:10	
Second Semester Examination January 11 th , 2011	Field of specialty: the secondary subject, if you have	11:20~12:20	
	Interview	13:00~	

- ① Applicant's main examination subject will be determined by the research theme selected from the "List of Research Themes."
- ② As for English examination, applicants are allowed to use dictionaries excepting electronic ones. If an applicant has a score of more than 550 in TOEFL PBT (more than 213 in TOEFL CBT) or more than 750 in TOEIC, he/she need not to take English examination.

7. ANNOUNCEMENT OF SUCCESSFUL APPLICANTS & PROCEDURE FOR ADMISSION

- (1) The identification numbers of the successful applicants will be posted at the student entrance; also, all the applicants will be informed of the results by mail.
- (2) Admission documents will be mailed to successful applicants.
- (3) Successful applicants should pay admission fees and complete procedure for admission by the designated date.
- (4) Admission fees and tuition are as follows:
 - ① Admission fees: ¥282,000(estimated amounts)
 - ② Annual tuition: ¥535,800(estimated amounts)
 - ③ The sum mentioned above is amount of assumption; if the cost of tuition changes during the period of applicant's enrollment, the new payment system will be applicable.

8. OTHER INFORMATION

- (1) An applicant requesting an application form through the mail should address the envelope to "Request for Application for Doctoral Program" (Graduate School of Dentistry) and enclose a return envelope (34 cm x 24 cm) with his/her name, address and postal code written on it ; attach stamps equivalent to ¥240 on it.
- (2) About the handling of individual information
 - ① Individual information collected by the process of the admission procedure is used only for the following purpose: execution of admission procedure, procedure of entrance, study after entrance, business concerning public welfare guiding and study guidance.
 - ② Individual information collected by the process of the admission procedure is strictly handled based on 'individual information protection rule of Kyushu Dental College.'
 - ③ Individual information is not disclosed or offered to the third person without the approval of the applicant.
- (3) Those who need special care on going in the examination and schooling, please contact our educational affairs section in advance.

Kyushu Dental College
Educational Affairs Section of the Graduate School of Dentistry
2-6-1, Manazuru, Kokura-Kita-Ku, Kitakyushu 803-8580,
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E-mail: kyoumu@kyu-dent.ac.jp