

Entrance Requirements for
GRADUATE SCHOOL of LIFE DENTISTRY

AT NIIGATA

2008 - 2009

THE NIPPON DENTAL UNIVERSITY

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1. ACADEMIC CALENDER

1) Academic Year Calendar

2008~2009

Registration March 31, 2008

1st Semester April 11, 2008~September 30, 2008
or October 1, 2008 ~March 31, 2009

2nd Semester October 1, 2008~March 31, 2009
or April 11, 2009~September 30, 2009

2) Holidays and Vacation

Every Saturday and Sunday

National Holidays

Spring Recess April 1~10

Summer Vacation July 11~August 31

Winter Vacation December 25~January 10

Foundation Day June 1

2. THE REGENT BOARD AND COUNCIL

Administration of the Graduate School of Life Dentistry at Niigata
The Nippon Dental University

NAKAHARA Sen, DDS, PhD

Chairman of the Regent Board

President

Professor

OGURA Hideo, DDS, PhD

Dean

Professor

SHIMOMURA Hiromi, DDS, PhD

Director of Dentistry Research, Graduate School of Life Dentistry at Niigata

Professor

3. MEMBERS OF THE COMMITTEE

Dept. Anatomy

Prof. KAGEYAMA Ikuo, DDS, PhD

Dept. Histology

Prof. YOSHIE Sumio, PhD

Dept. Physiology

Prof. MURAKAMI Toshiki, DDS, PhD

Dept. Biochemistry

Prof. SHIMOMURA Hiromi, PhD

Dept. Pathology

Dept. Microbiology

Prof. KATSURAGI Hiroaki, DDS, PhD.

Dept. Pharmacology

Prof. KIMURA Tomohiko, PhD

Dept. Preventive and Community Dentistry

Prof. SUETAKA Takehiko, DDS, PhD

Dept. Dental Materials Science

Prof. OGURA Hideo, DDS, PhD

Div. Biomaterials, Advanced Research Center

Prof. MIYAGAWA Yukio, DDS, PhD

Dept. Endodontics

Prof. IGARASHI Masaru, DDS, PhD

Dept. Operative Dentistry
Prof. KATOH Yoshiroh, DDS, PhD

Dept. Periodontics
Prof. SATO Soh, DDS, PhD

Dept. Removable Prosthodontics
Prof. KOIDE Kaoru, DDS, PhD

Dept. Crown and Bridges
Prof. WATANABE Fumihiko, DDS, PhD

Dept. Removable Prosthodontics

Dept. Oral and Maxillofacial Surgery 1
Prof. TSUCHIKAWA Kohzo, DDS, PhD

Dept. Oral and Maxillofacial Surgery 2
Prof. MATAGA Izumi, DDS, PhD

Dept. Dental Anesthesiology

Dept. Orthodontics
Prof. TERADA Kazuto, DDS, PhD

Dept. Pediatric Dentistry
Prof. SHIMOOKA Shohachi, DDS, PhD

Dept. Oral and Maxillofacial Radiology
Prof. TSUCHIMOCHI Makoto, DDS, PhD

Dept. Internal Medicine
Prof. SHIBASAKI Koichi, MD, PhD

4. EDUCATIONAL COMMISSION AND OBJECTIVES

The main objective of the graduate school is to educate prospective researchers with ability, knowledge and humanity in the dental and basic science fields.

They will pursue both extensions of dental medicine and improvement of medical welfare.

5. NUMBER OF STUDENTS TO BE ADMITTED

A maximum 18 students will be accepted each year.

6. MAJOR SUBJECTS AND DIRECTORS IN THE DOCTORAL COURSE

Dental Doctoral Research is divided into 3 courses:

1. Basic Science, 2. Applied Science and 3. Clinical Science. Each course includes 3 fields and has 2 main subject programs as listed in the following table.

Courses	Fields	Major Subject Programs	Directors
1. Basic Science	Oral & Maxillofacial Morphology	Comparative Morphology of Oral Hard Tissue and Mucous Membranes	KAGEYAMA Ikuo
		Histology	YOSHIE Sumio
	Oral & Maxillofacial Functions Science	Physiology of Mastication and Salivation	MURAKAMI Toshiki
		Molecular Biology of Saliva and Salivary Glands	SHIMOMURA Hiromi
	Oral & Maxillofacial Infection and Environmental Health Sciences	Oral Infection and Immunity	KATSURAGI Hiroaki
		Oral Environment and Community Dental Health	SUETAKA Takehiko

Courses	Fields	Major Subject Programs	Directors
2. Applied Science	Bio-materials and Occlusion Science	Developmental Science of Oral Biomaterials	OGURA Hideo MIYAGAWA Yukio
		Functional Occlusal Treatment	KOIDE Kaoru WATANABE Fumihiko
	Oral & Maxillofacial Imaging and Histopathological Diagnostics	Quantitative Diagnostic Imaging	TSUCHIMOCHI Makoto
		Histopathology of Pathogenic Mechanisms	
	Oral & Maxillofacial Bio-response and Anesthesiology	Pharmacodynamics of Hard Tissue and Salivary Glands	KIMURA Tomohiko
		Anesthesiology and Resuscitation	
3. Clinical Science	Advanced Conservative Dentistry and Periodontology	Advanced Operative Dentistry · Endodontics	KATOH Yoshiroh IGARASHI Masaru
		Periodontology	SATO Soh
	Oral & Maxillofacial Growth and Development	Pediatric Oral Behavior Science	SHIMOOKA Shohachi
		Orthodontics and Dentofacial Orthopedics	TERADA Kazuto
	Oral & Maxillofacial Surgery and Systemic Medicine	Oral and Maxillofacial Surgery	MATAGA Izumi TSUCHIKAWA Kohzo
		Clinical Examination	SHIBASAKI Koichi

7. MAIN STUDY CONTENTS

Major Subject Programs (Director)	Theme of the Study
Comparative Morphology of Oral Hard Tissue and Mucous Membranes (KAGEYAMA Ikuo)	<ol style="list-style-type: none"> 1. Dental Anthropology. 2. Morphogenesis of the head and neck. 3. Clinical anatomy of the maxillofacial region.
Histology (YOSHIE Sumio)	<ol style="list-style-type: none"> 1. Comparative histology of the gustatory organ. 2. Morphological analysis of taste transmission. 3. Intracellular localizations of secretion-relevant proteins in the parotid gland.
Physiology of Mastication and Salivation (MURAKAMI Toshiki)	<ol style="list-style-type: none"> 1. Central control mechanisms of mastication. 2. Central regulation mechanisms of salivary secretion. 3. Central transmission mechanisms of oral sensory information.
Molecular Biology of Saliva and Salivary Glands (SHIMOMURA Hiromi)	<ol style="list-style-type: none"> 1. Mechanism of membrane-fusion in exocytosis. 2. Identification and the role of the substrate proteins for phosphorylation in parotid acinar cells.
Oral Infection and Immunity (KATSURAGI Hiroaki)	<ol style="list-style-type: none"> 1. Analyses of host response against periodontal pathogens. 2. Studies of aminopeptidase on oral bacteria. 3. Identification of cariogenic and periodontopathic bacteria by DNA analysis.
Oral Environmental Community Dental Health (SUETAKA Takehiko)	<ol style="list-style-type: none"> 1. The evaluation of a community-based oral health care program for prevention effectiveness. 2. A field study of oral health public services associated with health promotion. 3. Development of a new masticatory function assessment system for oral health.
Developmental Science of Oral Biomaterials (OGURA Hideo)	<ol style="list-style-type: none"> 1. Development of dental alloys for multiple applications. 2. Study on fabrication of dental restorations using CAD/CAM. 3. Wear of dental restorative materials.
Developmental Science of Oral Biomaterials (MIYAGAWA Yukio)	<ol style="list-style-type: none"> 1. Development of magnetic metal-resin composites. 2. Study on dental metallic materials. 3. Study on corrosion and tarnishing of dental materials.
Functional Occlusal Treatment (WATANABE Fumihiko)	<ol style="list-style-type: none"> 1. Development of implant materials and its clinical application. 2. Development of ceramic materials and clinical application. 3. Dimensional accuracy of crown and bridge restorations.
Functional Occlusal Treatment (KOIDE Kaoru)	<ol style="list-style-type: none"> 1. A study of the occlusal forms for denture wear. 2. A study of the condylar position under various conditions. 3. A study of denture movement influenced by various retainers.
Functional Occlusal Treatment	<ol style="list-style-type: none"> 1. Oral appliance for the treatment of obstructive sleep apnea. 2. Development and clinical application of the chair side examination of salivary secretory function. 3. Physiological function of the mouth guard.
Quantitative Diagnostic Imaging (TSUCHIMOCCHI Makoto)	<ol style="list-style-type: none"> 1. Fundamental research for the development of radiopharmaceuticals for oral cancer. 2. Development and clinical use of the small high resolution gamma camera. 3. Gene therapy for oral squamous cell carcinoma.

Major Subject Programs (Director)	Theme of the Study
Histopathology of Pathogenic Mechanisms	<ol style="list-style-type: none"> 1. Application of the original dental fiberscope for diagnosis using microscopic images. 2. Clinicopathological study of oral lesions by histopathological diagnosis and cytodagnosis. 3. Fundamental study of various biomaterials undertaken by original DCFB treatment.
Pharmacodynamics of Hard Tissue and Salivary Glands (KIMURA Tomohiko)	<ol style="list-style-type: none"> 1. Study on secretory mechanisms in the salivary gland. 2. Study on substances suppressing cariogenicity. 3. Mechanisms of adrenal catecholamine secretion.
Anesthesiology and Resuscitation	<ol style="list-style-type: none"> 1. Study of localization of anesthetics. 2. Study of qualitative comparison of sedation. 3. Study of preemptive analgesia.
Advanced Operative Dentistry· Entodontics (KATOH Yoshiroh)	<ol style="list-style-type: none"> 1. Studies of dentin/pulp complex protection and the wound healing process of exposed pulp in relation to laser irradiation and high molecular adhesive resins. 2. Study for the development of adhesive resin systems with a calcification promoting function as a direct pulp capping agent. 3. Studies on irradiation effects and adhesion to dental substrates and adaptability of restoratives to the cavity.
Advanced Operative Dentistry· Entodontics (IGARASHI Masaru)	<ol style="list-style-type: none"> 1. Study on healing of dental pulp and periapical tissue. 2. Study of Biomechanical and ochemical root canal preparation. 3. Research on biological properties of cells related in pulpal and periapical diseases.
Periodontology (SATO Soh)	<ol style="list-style-type: none"> 1. Study on the periodontal tissue regeneration. 2. Study of the periodontal-systemic connection. 3. Study on esthetics in periodontal treatment.
Pediatric Oral Behavior Science (SHIMOOKA Shohachi)	<ol style="list-style-type: none"> 1. Behavior management of child patients - Study of the ecological approach - 2. Behavior management of child patients - Study of visual preception using a vision eye camera - 3. Three -dimensional examination for developing dentition.
Orthodontics and Dentofacial Orthopedics (TERADA Kazuto)	<ol style="list-style-type: none"> 1. Biomechanical analysis of orthodontic treatment. 2. Relationship between orthodontic treatment and facial expression. 3. Orthognatic surgery of jaw deformities.
Oral & Maxillofacial Surgery (MATAGA Izumi)	<ol style="list-style-type: none"> 1. Clinical study on diagnosis treatment of oral cancer. 2. Clinical study on reconstruction of the mandible. 3. Oral manifestations in the patients maintained by hemodialysis and transplantation.
Oral & Maxillofacial Surgery (TSUCHIKAWA Kohzo)	<ol style="list-style-type: none"> 1. Study on relationships between calcium-channels and proliferative activity of gingival fibroblasts. 2. Study on embryonic development of the temporomandibular joint. 3. Study on cytological function of the myoepithelium of salivary glands.
Clinical Examination (SHIBASAKI Koichi)	<ol style="list-style-type: none"> 1. Research on the interrelation between oral diseases and systemic diseases from the viewpoint of the clinical laboratory. 2. A study of osteoporosis and oral diseases. 3. The pathophysiologic approach to oral diseases.

8. COMPLETION OF THE DOCTORAL COURSE

The doctoral course normally takes four years to complete, but it is possible to complete it in three years.

9. ADMISSION FOR ENROLLMENT TO THE GRADUATE SCHOOL

1) General Statement

Applications for admission are selected on the basis of their qualifications, regardless of race, color, sex or nationality.

Qualities such as interest, intellectual curiosity, perception and ability to reason, are the prime requirements in addition to a record of academic competence. Candidates for a degree are admitted only on a full time resident basis.

2) Requirement for Admission

① Regular Graduate Students from a Dental or Medical School

An applicant who intends to become a candidate for a degree is expected to have graduated from a dental or medical school in March of this year, or has already graduated. Applicants from a medical school are restricted to the clinical science course and part of the applied science course.

Please check before applying. In order to practice clinical treatment you need a certificate of at least 3 years clinical experience.

② Graduate students besides those from dental and medical schools

The major general requirement is an approved master degree or equivalent education as determined by the qualification screening committee.

Note:

Applicants are expected to be able to converse in Japanese.

10. DOCUMENTS REQUIRED FOR APPLICATION

- 1) Two application forms from the office should be completed, and two photographs of the applicant's face (4 x 5 cm, front view, no cap, black and white, and taken within 3 months; color photos are also accepted) should be attached to the forms. A second choice of program may be selected.

The completed forms should be returned to the Admission Office by December 18, 2008 or June 18, 2009.

- 2) A copy of the diploma or a certificate of expected graduation.

- 3) A sealed transcript issued from the president of the university.

It is accepted only when the seal is opened at our office. A transcript is able to replace the graduate examination. Applicants may also provide two letters of recommendation from faculty members familiar with their academic qualifications.

- 4) A health examination record which includes details of eyesight, color, sense, auditory-sense tuberculosis, psychopathic and other disorders needs to be submitted.

11. EXAMINATION FEE

- 1) ¥ 20,000.

- 2) Procedures necessary for the examination

Present the documents with the examination fee to the Admission Office. Application must be received no later than December 21, 2008 or June 20, 2009.

Numbered admission tickets will be sent by airmail or facsimile to other countries from Japan.

Please include your facsimile number, if you (or your school) have one.

12. SUBJECT OF EXAMINATION

- 1) Essay about 600 words in English or 1600 words in Japanese.
- 2) An interview is requested by members of the Graduate Program committee concerning the individual's program.
- 3) Time Schedule of Examination

You should bring your numbered admission ticket to the examination.

Date		Time	Subjects
February, 10 August, 27	or	From 10:00 to 12:00	Essay
February, 10 August, 27	or	From 14:00~	Interview

- 4) Place of the Examination

The Nippon Dental University School of Life Dentistry at Niigata is located at 1-8 Hamauracho, Niigata, Japan, 951-8580
Tel. +81-25-267-1500 Fax. +81-25-267-1134

- 5) Announcement of the Result of the Examination

The results will be announced on March 26, 2009 or September 26, 2009 on the bulletin board of the Niigata Faculty, or a letter of success will be sent by e-mail or fax.

13. EXPENSES

Expenses		To be paid at the time of
Entrance fee	¥200,000	Admission
Tuition	¥550,000	Beginning of the year
General insurance	¥8,000	Beginning of the year
Total	¥758,000	Total expense for the first year

Notice !

No costs mentioned above are refundable for any reason.

Students whose universities participate in the mutual science promotion program are entitled to a 20% discount on their tuition.

Following is a list of member universities:

Chung Shan Medical University

University of Michigan

University Paris 7 DENIS-DIDEROT

Sichuan University, West China College of Stomatology

University of Bern

The Hebrew University

The University of British Columbia

University of Manchester

Mahidol University

University of Turku

University of the Philippines

The University of Pennsylvania

The University of Adelaide

University of Otago

Health Sciences University of Mongolia

(in the order of joining as members of sister schools)

1) Registration for Admission

Registration for admission must be received by the last day of March or September. Please transfer all expenses (tuition and other fees) into the school account.

Sponsorship or bank certification for the full expenses of the four years is required.

14. ACADEMIC REGULATIONS AND PROFESSIONAL REQUIREMENTS

1) Financial Requirements

Tuition fee, studying and living expense have to be fully prepared by students.

In addition they need financial certification of sponsorship during the four years or bank certification.

2) Student Curriculum

Students plan their curriculum in consultation with their Program Director and Research Advisor.

3) Credit Requirement

Credit is granted only for those courses that have been approved by the Committee of Program Directors as listed in the bulletin.

The time required to achieve 1 credit is the total time for lectures, seminars and practices. Lecture units are 45 minutes, seminar units are 45 minutes x 2 and practical units are 45 minutes x 3, and they all run for approximately 15 weeks each.

① Basic Science

Subject	Credit		
	Year	1 st semester	2 nd semester
Comparative Morphology of Oral Hard Tissue and Mucous Membranes	Lecture 4	2	2
	Seminar 4	2	2
	Practice 10	5	5
Histology	Lecture 4	2	2
	Seminar 4	2	2
	Practice 10	5	5
Physiology of Mastication and Salivation	Lecture 4	2	2
	Seminar 4	2	2
	Practice 10	5	5
Molecular Biology of Saliva and Salivary Glands	Lecture 4	2	2
	Seminar 4	2	2
	Practice 10	5	5
Oral Infection and Immunity	Lecture 4	2	2
	Seminar 4	2	2
	Practice 10	5	5
Oral Environmental and Community Dental Health	Lecture 4	2	2
	Seminar 4	2	2
	Practice 10	5	5

② Applied Science

Subject	Credit		
	Year	1 st semester	2 nd semester
Developmental Science of Oral Biomaterials	Lecture		
	4	2	2
	Seminar		
	4	2	2
	Practice		
	10	5	5
Functional Occlusal Treatment	Lecture		
	4	2	2
	Seminar		
	4	2	2
	Practice		
	10	5	5
Quantitative Diagnostic Imaging	Lecture		
	4	2	2
	Seminar		
	4	2	2
	Practice		
	10	5	5
Histopathology of Pathogenic Mechanisms	Lecture		
	4	2	2
	Seminar		
	4	2	2
	Practice		
	10	5	5
Pharmacodynamics of Hard Tissue and Salivary Glands	Lecture		
	4	2	2
	Seminar		
	4	2	2
	Practice		
	10	5	5
Anesthesiology and Resuscitation	Lecture		
	4	2	2
	Seminar		
	4	2	2
	Practice		
	10	5	5

③ Clinical Science

Subject	Credit		
	Year	1 st semester	2 nd semester
Advanced Operative Dentistry • Endodontics	Lecture 4	2	2
	Seminar 4	2	2
	Practice 10	5	5
Periodontology	Lecture 4	2	2
	Seminar 4	2	2
	Practice 10	5	5
Pediatric Oral Behavior Science	Lecture 4	2	2
	Seminar 4	2	2
	Practice 10	5	5
Orthodontics and Dentofacial Orthopedics	Lecture 4	2	2
	Seminar 4	2	2
	Practice 10	5	5
Oral and Maxillofacial Surgery	Lecture 4	2	2
	Seminar 4	2	2
	Practice 10	5	5
Clinical Examination	Lecture 4	2	2
	Seminar 4	2	2
	Practice 10	5	5

15. PROGRAM REQUIREMENTS FOR THE DOCTORAL COURSE

- 1) Each student must complete a major subject, associated subjects and other subjects totaling at least 30 credits, under the guidance of the Director. With permission of the Committee of the Graduate Course, students are able to take graduate level lectures at other universities and any credits achieved may be approved for addition up to a maximum of 10 credits.
- 2) After completion of all course requirements, candidates must demonstrate adequate mastery of their field, through both a written and comprehensive oral examination.
- 3) The dissertation will be based on original experimental research performed under the guidance of the Program Director.

16. PRESENTATION OF THE DISSERTATION

Students wishing to obtain a doctorate by presenting a thesis must submit the necessary forms to the Graduate Office. The dissertation will be preliminarily inspected by the inquiry committee comprised of three members. It will be evaluated in accordance with the standards deserving of a doctoral degree. At this time the student's ability to comprehend the major significance of the chosen field will be tested by an oral examination. After clearing the preliminary examination, the dissertations will be advanced to a full meeting of all committee members who will discuss the qualifications of academic competence.

Acceptance is determined by more than two-third approval of all members of the committee. A graduate degree (PhD) is awarded by the Nippon Dental University School of Life Dentistry at the Niigata graduation ceremony in March.

17. DISCIPLINE

The following may be cause for disciplinary action:

- 1) Students who do not pay school expenses by the due date.
- 2) Students who conduct themselves unsocially or immorally.
- 3) Students who find it impossible to graduate.
- 4) Students who stay over 8 years.
- 5) Students who do not attend class regularly.

Punishment for the aforementioned will be decided by members of the committee.

Discipline may consist of cautioning, suspension or expulsion from school.

6. Graduate course (major subject) you wish to study.

1st choice.

2nd choice

7. Previous employment (if any)

Institution

Location

Position

From/To

8. Academic awards (please indicate title and year)

9. Language ability (Evaluate using Excellent, Good, or Fair)

Writing

Reading

Speaking

Japanese

English

Others

10. Previous Stay in Japan

Place

Year and duration

Purpose

11. Sponsor or Financial Guarantor

Name

Position or title

Address:

Tel:

Fax:

Signature

12. Contact in Case of Emergency

Full name

Address:

Tel:

Relationship

Date

Signature