

**Entrance Requirements for**  
**GRADUATE SCHOOL of LIFE DENTISTRY**

**AT NIIGATA**

**2015 – 2016**

**THE NIPPON DENTAL UNIVERSITY**

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## 1. ACADEMIC CALENDER

### 1) Academic Year Calendar

2015~2016

Registration..... March 31, 2016

1st Semester..... April 12, 2016~September 30, 2016  
or October 1, 2015 ~March 31, 2016

2nd Semester ..... October 1, 2016~March 31, 2017  
or April 10, 2016~September 30, 2016

### 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.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

SEKIMOTO Tsuneo, DDS, PhD  
Dean of School of Life Dentistry at Niigata  
Professor

SHINKAI Koichi, DDS, PhD  
Dean of 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. IWASAKI Shin-ichi, PhD

Dept. Biochemistry

Dept. Pathology

Prof. OKADA Yasuo, DDS, PhD

Dept. Microbiology

Prof. KATSURAGI Hiroaki, DDS, PhD.

Dept. Pharmacology

Prof. NAKAMURA Kenjirou, DDS, PhD.

Dept. Preventive and Community Dentistry

Prof. KOMATSUZAKI Akira, DDS, PhD.

Dept. Dental Materials Science

Prof. MIYAGAWA Yukio, DDS, PhD

Dept. Endodontics

Prof. IGARASHI Masaru, DDS, PhD

Dept. Operative Dentistry

Prof. SHINKAI Koichi, 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. Oral and Maxillofacial Surgery

Prof. TANAKA Akira, DDS, PhD

Dept. Dental Anesthesiology

Prof. SANO Kimito, DDS, PhD

Dept. Orthodontics

Prof. TERADA Kazuto, DDS, PhD

Dept. Pediatric Dentistry

Prof. SEKIMOTO Tsuneo, DDS, PhD

Dept. Oral and Maxillofacial Radiology

Prof. TSUCHIMOCHI Makoto, DDS, PhD

Dept. Internal Medicine

Prof. OHKOSHI Shogo, M.D., 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	IWASAKI Shin-ichi
		Molecular Biology of Saliva and Salivary Glands	
	Oral & Maxillofacial Infection and Environmental Health Sciences	Oral Infection and Immunity	KATSURAGI Hiroaki
		Oral Environment and Community Dental Health	KOMATSUZAKI Akira

Courses	Fields	Major Subject Programs	Directors
2 . Applied Science	Bio-materials and Occlusion Science	Developmental Science of Oral Biomaterials	MIYAGAWA Yukio
		Functional Occlusal Treatment	KOIDE Kaoru WATANABE Fumihiko
	Oral & Maxillofacial Imaging and Histopathological Diagnostics	Quantitative Diagnostic Imaging	TSUCHIMOCHI Makoto
		Histopathology of Pathogenic Mechanisms	OKADA Yasuo
	Oral & Maxillofacial Bio-response and Anesthesiology	Pharmacodynamics of Hard Tissue and Salivary Glands	NAKAMURA Kenjirou
		Anesthesiology and Resuscitation	SANO Kimito
3 . Clinical Science	Advanced Conservative Dentistry and Periodontology	Advanced Operative Dentistry · Endodontics	IGARASHI Masaru SHINKAI Koichi
		Periodontology	SATO Soh
	Oral & Maxillofacial Growth and Development	Pediatric Oral Behavior Science	SEKIMOTO Tsuneo
		Orthodontics and Dentofacial Orthopedics	TERADA Kazuto
	Oral & Maxillofacial Surgery and Systemic Medicine	Oral and Maxillofacial Surgery	TANAKA Akira
		Oral and Maxillofacial Surgery Clinical Examination	OHKOSHI Shogo



## 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"> <li>1. Dental Anthropology</li> <li>2. Morphogenesis of the head and neck</li> <li>3. Clinical anatomy of the maxillofacial region</li> </ol>
Histology (YOSHIE Sumio)	<ol style="list-style-type: none"> <li>1. Comparative histology of the gustatory organ</li> <li>2. Morphological analysis of taste transmission</li> <li>3. Intracellular localizations of secretion-relevant proteins in the parotid gland</li> </ol>
Physiology of Mastication and Salivation (IWASAKI Shin-ichi)	<ol style="list-style-type: none"> <li>1. Central mechanisms of mastication and salivary secretion</li> <li>2. Central transmission mechanisms of oral sensory information</li> <li>3. Developmental and evolutionary biology of oral function</li> </ol>
Molecular Biology of Saliva and Salivary Glands	<ol style="list-style-type: none"> <li>1. Mechanism of membrane-fusion in exocytosis</li> <li>2. Pathological biochemistry on saliva and salivary glands in animal models</li> </ol>
Oral Infection and Immunity (KATSURAGI Hiroaki)	<ol style="list-style-type: none"> <li>1. Analyses of host response against periodontal pathogens</li> <li>2. Studies of aminopeptidase on oral bacteria</li> <li>3. Identification of cariogenic and periodontopathic bacteria by DNA analysis</li> </ol>
Oral Environmental Community Dental Health (KOMATSUZAKI Akira)	<ol style="list-style-type: none"> <li>1. The evaluation of a community-based oral health care program for prevention effectiveness</li> <li>2. A field study of oral health public services associated with health promotion</li> <li>3. Development of a new masticatory function assessment system employing a laser beam for oral health</li> </ol>
Developmental Science of Oral Biomaterials (MIYAGAWA Yukio)	<ol style="list-style-type: none"> <li>1. Development of magnetic metal-resin composites</li> <li>2. Study on restoration using zirconia</li> <li>3. Study on corrosion, tarnishing and abrasion of dental materials</li> </ol>
Functional Occlusal Treatment (KOIDE Kaoru)	<ol style="list-style-type: none"> <li>1. Study on the occlusal forms for denture wear</li> <li>2. Study on the condylar position under various conditions</li> <li>3. Development and clinical application of the chair side examination of stomatognathic function</li> </ol>
Functional Occlusal Treatment (WATANABE Fumihiko)	<ol style="list-style-type: none"> <li>1. Development and clinical evaluation of implant materials and bone augmentation materials</li> <li>2. Study on tooth reduction device and method</li> <li>3. Torsional strength of dental restorative materials</li> </ol>
Quantitative Diagnostic Imaging (TSUCHIMOCHI Makoto)	<ol style="list-style-type: none"> <li>1. Fundamental research for the development of radiopharmaceuticals for oral cancer</li> <li>2. Development and clinical use of the small high resolution gamma camera</li> <li>3. Gene therapy for oral squamous cell carcinoma</li> </ol>
Histopathology of Pathogenic Mechanisms (OKADA Yasuo)	<ol style="list-style-type: none"> <li>1. Comprehensive study on genesis, proliferation, invasion, metastasis, diagnosis and treatment of oral cancer</li> <li>2. Study on tumorous property acquisition of the lining epithelium of odontogenic cyst</li> <li>3. Study on histopathological malignancy grade, angiogenesis and metastasis of malignant tumor of salivary gland</li> </ol>

Major Subject Programs (Director)	Theme of the Study
Pharmacodynamics of Hard Tissue and Salivary Glands (NAKAMURA Kenjirou)	<ol style="list-style-type: none"> <li>1. Study on secretory mechanisms in the salivary gland</li> <li>2. Study on substances suppressing cariogenicity</li> <li>3. Mechanisms of adrenal catecholamine secretion</li> </ol>
Anesthesiology and Resuscitation (SANO Kimito)	<ol style="list-style-type: none"> <li>1. Study of localization of anesthetics</li> <li>2. Study of qualitative comparison of sedation</li> <li>3. Study of preemptive analgesia</li> </ol>
Advanced Operative Dentistry · Endodontics (IGARASHI Masaru)	<ol style="list-style-type: none"> <li>1. Study on healing of dental pulp and periapical tissue</li> <li>2. Study of biomechanical and biochemical root canal preparation</li> <li>3. Research on biological properties of cells related to pulpal and periapical diseases</li> </ol>
Advanced Operative Dentistry · Endodontics (SHINKAI Koichi)	<ol style="list-style-type: none"> <li>1. Study on tooth adhesion of dental restorative materials</li> <li>2. Study on prevention and control for dental root caries</li> <li>3. Development of dental adhesive materials with a calcification promoting function</li> </ol>
Periodontology (SATO Soh)	<ol style="list-style-type: none"> <li>1. Study on the periodontal tissue regeneration</li> <li>2. Study of the periodontal-systemic connection</li> <li>3. Study on esthetics in periodontal treatment</li> </ol>
Pediatric Oral Behavior Science (SEKIMOTO Tsuneo)	<ol style="list-style-type: none"> <li>1. Study of oral diseases and the underlying pathomechanisms</li> <li>2. Study of the factor of tooth eruption</li> <li>3. Study of salivary protein and dental caries prevention</li> </ol>
Orthodontics and Dentofacial Orthopedics (ENDO Toshiya)	<ol style="list-style-type: none"> <li>1. Biomechanical analysis of orthodontic treatment</li> <li>2. Early treatment for malocclusion</li> <li>3. Characteristics of orthodontic adhesive</li> </ol>
Oral & Maxillofacial Surgery (TANAKA Akira)	<ol style="list-style-type: none"> <li>1. Experimental study on anti-cancer drug sensitivity test for oral cancer chemotherapy</li> <li>2. Experimental study on regeneration of salivary gland, nerve and tooth</li> <li>3. Clinical and experimental study on oral candidiasis</li> </ol>
Clinical Examination (OHKOSHI Shogo)	<ol style="list-style-type: none"> <li>1. Research on the interrelation between oral diseases and systemic diseases from the viewpoint of the clinical laboratory</li> <li>2. Sleep apnea syndrome and fatty liver</li> <li>3. Differentiation of dental pulp stem cell</li> </ol>

## 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 September 3, 2015 or February 22, 2016.

- 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 qualification.

- 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 September 3, 2015 or February 22, 2016.

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
September 10, 2013 or February 28, 2014	From 10:00 to 12:00	Essay
	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, Chuo-ku, 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 September 12, 2013 or March 4, 2014 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  
Baltimore College of Dental Surgery, University of Maryland  
The University of Hong kong  
Faculty of Medicine/Dentistry, The Danube Private University  
(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 expenses 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
Comparative Morphology of Oral Hard Tissue and Mucous Membranes	Lecture Seminar 3 Practice 4 Thesis Submission 6
Histology	Lecture Seminar 3 Practice 4 Thesis Submission 6
Physiology of Mastication and Salivation	Lecture Seminar 3 Practice 4 Thesis Submission 6
Molecular Biology of Saliva and Salivary Glands	Lecture Seminar 3 Practice 4 Thesis Submission 6
Molecular Biology of Saliva and Salivary Glands	Lecture Seminar 3 Practice 4 Thesis Submission 6
Oral Infection and Immunity	Lecture Seminar 3 Practice 4 Thesis Submission 6
Oral Environmental and Community Dental Health	Lecture Seminar 3 Practice 4 Thesis Submission 6

② Applied Science

Subject	Credit
	Year
Developmental Science of Oral Biomaterials	Lecture Seminar 3 Practice 4 Thesis Submission 6
Functional Occlusal Treatment	Lecture Seminar 3 Practice 4 Thesis Submission 6
Quantitative Diagnostic Imaging	Lecture Seminar 3 Practice 4 Thesis Submission 6
Histopathology of Pathogenic Mechanisms	Lecture Seminar 3 Practice 4 Thesis Submission 6
Pharmacodynamics of Hard Tissue and Salivary Glands	Lecture Seminar 3 Practice 4 Thesis Submission 6
Anesthesiology and Resuscitation	Lecture Seminar 3 Practice 4 Thesis Submission 6



③ Clinical Science

Subject	Credit
	Year
Advanced Operative Dentistry • Endodontics	Lecture Seminar 3 Practice 4 Thesis Submission 6
Periodontology	Lecture Seminar 3 Practice 4 Thesis Submission 6
Pediatric Oral Behavior Science	Lecture Seminar 3 Practice 4 Thesis Submission 6
Orthodontics and Dentofacial Orthopedics	Lecture Seminar 3 Practice 4 Thesis Submission 6
Oral and Maxillofacial Surgery	Lecture Seminar 3 Practice 4 Thesis Submission 6
Clinical Examination	Lecture Seminar 3 Practice 4 Thesis Submission 6
All Courses / Core Classes	Lecture
Common Subject I	1.5
Common Subject II	1.5
Common Subject III	1.5

## **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 dissertation 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.

Application for Admission of The Nippon Dental University  
Graduate School of Life Dentistry at Niigata.  
1-8 Hamauracho, Chuo-ku, Niigata, 951-8580 Japan.  
Tel: +81-25-267-1500  
Fax: +81-25-267-1134

1. Full name (Capitalize Family Name) .  
family                      first                      middle

漢字 (in Kanji) if available.

Male                       Female

2. Date, Place of Birth and Nationality.  
Month                      Day                      Year

Nationality/Citizenship

3. Marital Status                       married.                       unmarried

If you are married and will be accompanied by family members, indicate their name (s) and date (s) of birth, and nationality

4. Mailing addresses

1) Home

Tel:

Fax:

2) Office

Tel:

Fax:

5. University education:

Period (from/to) Name of Univ.

Place

Subject.

Degree.



