

# Medical School

## \_\_Contact Information

Phone: +82-62-220-4000-9  
+82-61-379-2526-30  
Fax: +82-62-232-9708  
+82-61-379-2560  
URL: <http://medicine.chonnam.ac.kr/english>

## 1. Pre-medical Science

## 2. Medical Science

- 1) Basic Medical Science
    - Department of Anatomy
    - Department of Physiology
    - Department of Biochemistry
    - Department of Pathology
    - Department of Pharmacology
    - Department of Microbiology and Immunology
    - Department of Preventive Medicine
    - Department of Forensic Medicine
    - Department of Medical Education
    - Department of Biomedical Sciences
  - 2) Clinical Medical Science
    - Department of Internal Medicine
    - Department of Surgery
    - Department of Obstetrics and Gynecology
    - Department of Pediatrics
    - Department of Psychiatry
    - Department of Neurology
    - Department of Dermatology
    - Department of Orthopedic Surgery
- Department of Neurosurgery
  - Department of Thoracic and Cardiovascular Surgery
  - Department of Ophthalmology
  - Department of Otolaryngology and Head & Neck Surgery
  - Department of Plastic and Reconstructive Surgery
  - Department of Urology
  - Department of Anesthesiology and Pain Medicine
  - Department of Radiology
  - Department of Radiation Oncology
  - Department of Laboratory Medicine
  - Department of Nuclear Medicine
  - Department of Emergency Medicine
  - Department of Physical & Rehabilitation Medicine
  - Department of Occupational and Environmental Medicine
  - Department of Biomedical Engineering
  - Department of Family Medicine

## ■ Affiliated Research Centers

- Research Institute of Medical Sciences

## Pre-medical Science

### \_\_Contact Information

Phone: +82-62-220-4191  
Fax:  
E-mail: [polo8432@naver.com](mailto:polo8432@naver.com)  
<http://medicine.jnu.ac.kr/english/>

■ Medical sciences contribute to improving human welfare by keeping people safe from diseases. Therefore, needless to say, the training of expert knowledge and medical skills are essential. As doctors handle human life, the development of great personality, generosity and extensive refinement are needed to practice medicine.

Accordingly, the pre-medical curriculum is an indispensable period for the medical students to prepare themselves before they move on to medical school. In this pre-medical curriculum, students should learn subjects with regard to natural science and cultural subjects that will form the basis of a medical curriculum in the future.

## ■ Professors

See Medical School Professors

## ■ Degree Requirements

Students are required to earn 78 credits and minimum G.P.A. of 1.75 for all semesters (including summer/winter session)

## ■ What Do You Study?

### Core Courses

Global Communication English: GCE (3)  
Career Plan and Self Understanding (2)  
General Biology 1 (3)  
Campus Volunteer (1)  
Coaching Leadership for Self-effectiveness (3)  
Introduction to Psychology (3)  
Introduction to Statistics and Practice (3)  
Medical Etymology (3)  
Reading & Discussion in English 1 (3)  
Ethics of Life and Environment (3)  
Molecular Biology (3)  
Foundation of Medical Science (3)

Mathematics 1 (3)\*  
General Chemistry 1 (3)\*  
General Physics 1 (3)\*  
Physics Laboratory 1 (1)\*  
Biology Laboratory 1 (1)\*  
Chemistry Laboratory 1 (1)\*  
Appreciation of Music (3)\*  
Appreciation of Arts (3)\*  
Study of Classics of Korea (3)\*  
Contemporary Science Studies (3)\*  
Modern Society and Human Rights (3)\*  
Introduction to Contemporary Korean Politics (3)\*  
Ball Sports (1)\*

Writing (3)\*  
Life and Law (3)\*  
Theory of Speech (3)\*  
Logic (3)\*  
Mathematics 2 (3)\*  
General Chemistry 2 (3)\*  
General Physics 2 (3)\*  
General Biology 2 (3)\*  
Physics Laboratory 2 (1)\*  
Biology Laboratory 2 (1)\*  
Chemistry Laboratory 2 (1)\*  
Understanding of Architecture (3)\*  
Psychology of Human Sexuality (3)\*  
Food and Nutrition (3)\*  
Raquette Sports (1)\*  
Cell Biology (3)\*

Medical Physics (3)\*  
Organic Chemistry 1 (3)\*  
Introduction to Economics (3)\*  
What is History (3)\*  
Rhythmic Sports (1)\*  
Comparative Anatomy (3)\*  
Genetics (3)\*  
Reading & Discussion in English 2 (3)\*  
Medical Information (3)\*  
Understanding and Application of Molecular  
Medicine (3)\*  
(\* At least 45 credits should be chosen.)

#### **Credits Required**

At least 6 credits from each field : Literature and  
Art, History and Philosophy

## **Careers**

Students who complete the premedical program are automatically admitted to the Medical School.

## Medical Science

### *Contact Information*

Phone: +82-62-220-4000-9  
+82-61-379-2526-30  
Fax: +82-62-232-9708  
+82-61-379-2560  
URL: <http://medicine.jnu.ac.kr/english>

Medicine is the science of diagnosing, treating, or preventing disease and other damage to the body or mind. There is a multitude of medical research which is now directed toward such problems as cancer, heart disease, AIDS, re-emerging infectious diseases, organ transplants, and cell replacement. Currently, the largest worldwide study is the Human Genome Project, which will identify all hereditary traits and body functions controlled by specific areas on the chromosomes. Gene therapy, the replacement of faulty genes, offers the possible abatement of hereditary diseases. Genetic engineering has led to the development of important pharmaceutical products.

## Medical School

The Medical School is committed to teaching and training students through the most modern and efficient academic programs. The programs are aimed at producing able primary care physicians and creative medical scientists. To meet these institutional objectives, the Medical School offers both undergraduate and graduate courses which lead to advanced degrees including Master's and Doctorates

The undergraduate degree is composed of a 2-year premedical and a consequent 4-year medical course

The campus of the Medical School is located in the central part (Hak-dong) of Gwangju, away from the main campus of the University. It takes less than 10 minutes to get downtown on foot. The Hak-dong campus occupies about 80,000 m<sup>2</sup> of land, which includes Chonnam University Hospital.

## Professors

241 full-time faculty members (Professors: 158, Associate Professors: 62 and Assistant Professors: 21) and 14 teaching assistants are currently employed. The interests of members and contact profiles are located online: <http://medicine.jnu.ac.kr>.

## Degree Requirements

Students are required to earn 175 credits and pass all necessary exams. At the end of the fourth year, every student who has fulfilled these requirements will be recommended to the President of Chonnam National University for a Doctor of Medicine Degree (M.D.).

## What Do You Study?

Graduates and graduate candidates are unconditionally recommended to the National Board of Medical Examinations for a license to practice medicine in Korea.

### First Year

Lab in Basic Science 1  
Microbiology and Immunology  
Physiology  
Biochemistry  
Neuroanatomy  
Histology  
Anatomy  
Problem-Based Learning 1  
Pathology  
Pharmacology  
Patient-Doctor-Society 1  
Parasitology

Preventive Medicine  
Emergency Medicine  
Otorhinolaryngology  
Introduction to Clinical Medicine  
Psychiatry  
Dermatology  
Patient-Doctor-Society 3  
Clinical Practice of Internal Medicine  
Problem-Based Learning 3  
Clinical Practice of Obstetrics and Gynecology  
Clinical Practice of Pediatrics  
Clinical Practice of Surgery  
Clinical Practice of Emergency Medicine  
Psychiatric Clinical Practice

### Second Year

Growth and Development  
Radiology  
Reproductive System  
Gastroenterology  
Cardiology  
Allergology and Clinical Immunology  
Introduction to Clinical Medicine  
Laboratory Medicine  
Respiratory System  
Infection  
Musculoskeletal System  
Endocrinology & Metabolism  
Problem-Based Learning 2  
Neurology  
Nephrology  
Hematology  
Patient-Doctor-Society 2

### Fourth Year

Clerkship in Anesthesiology  
Clinical Practice of Radiation  
Clerkship in Forensic Medicine  
Clerkship in Urology  
Elective Clerkship in Clinical Medicine 1  
Elective Clerkship in Clinical Medicine 2  
Clerkship in Plastic Surgery  
Clinical Practice of Neurology  
Clerkship in Neurosurgery  
Clinical Practice of Ophthalmology  
Clinical Practice of Radiology  
Clinical Practice of Otolaryngology  
Clerkship in Rehabilitation Medicine  
Clerkship in Orthopedic Surgery  
Clinical Sciences Exam  
Clinical Practice of Community Medicine  
Clinical Practice of Laboratory Medicine  
Clerkship in Dermatology  
Clinical Practice of Nuclear Medicine  
Patient-Doctor-Society 4  
Thoracic and Cardiovascular Surgery

### Third Year

Anesthesiology  
Forensic Medicine  
Ophthalmology

Department of  
Anatomy

### Contact Information

Phone: +82-61-379-2700  
Fax: +82-61-375-5834

## Mission

The Department of Anatomy provides high quality teaching of anatomical sciences to medical students and graduate students as appropriate. The Department is responsible for teaching several courses including Anatomy, Neuroanatomy, Histology, and Embryology and periodically offers electives and special courses for other groups of students and faculty within the Chonnam community. Six faculty members with primary full-time appointments conduct research in various fields of medical science. The Department also administers Body Donation Program to allow Gwangju and Chonnam residents the opportunity to donate their bodies for research and teaching.

## Research Interests

- 1) Ontogeny of neurotransmitters and receptors in central nervous system and central connection of cortex and thalamus
- 2) Mechanistic studies on kidney diseases
  - ① Screening and cloning the candidates genes involving in regulation of potassium balance and chronic renal disease
  - ② Characterization of expressions, functions, and regulating roles of these candidate gene in kidney and other related organs
- 3) Clinical and basic proteomics study on oncologic diseases
  - ① Discovery of biomarkers of diagnosis (early detection and relapse), prognosis, treatment response prediction.
  - ② Deciphering of their molecular mechanisms
- 4) Clinical anatomy - all aspects as applied to medical practice, new developments in clinical anatomy and teaching techniques
- 5) Understanding mechanical functions underlying development of urologic cancers
  - ① Elucidation of molecular mechanism involved in the progression of hormone resistant prostate cancer
  - ② Development of biomarkers to predict recurrence of cancers of prostate and bladder
- 6) Study on metabolic change in central nervous system (CNS) diseases
  - ① The related molecular mechanisms between metabolic diseases and CNS diseases
  - ② Discovery of anti-aging mechanisms to cure neurodegenerative diseases

## Professors

- Choon Sang Bae  
[Professor, Neuroanatomy and Embryology,  
csbae@jnu.ac.kr]
- Kyu Youn Ahn  
[Professor, Anatomy and Histology,  
kyahn@jnu.ac.kr]
- Seung Won Lee  
[Professor, Histology,  
seunglee@jnu.ac.kr]
- Kwang Il Nam  
[Professor, Anatomy, atlas@jnu.ac.kr]
- Chae Yong Jung  
[Professor, Histology and Embryology,  
chjung@jnu.ac.kr]
- Ju Hyun Song  
[Assistant Professor, Neuroscience, Aging  
science, Metabolic syndrome, Alzheimer's  
disease, stroke, juhyunsong@jnu.ac.kr]

## Department of Physiology

— *Contact Information*  
Phone: +82-61-379-2812  
Fax: +82-61-

## Research Interests

- 1) Development of cell therapy strategies for hearing loss using human mesenchymal stem cells
- 2) Genetic and epigenetic control of mesenchymal stem cell fate during neurogenic differentiation
- 3) Study of stem cell transplantation for degenerative CNS disease including Alzheimer's disease, Parkinson's disease, and stroke
- 4) Neurophysiological mechanisms of vestibularly-evoked responses of the olivocerebellar tract
- 5) Hormonal and neural mechanisms responsible for the pathogenesis of hypertension
- 6) Electrophysiological study on the ion channels of the nervous system

## Professors

- Sah Hoon Park  
[Professor, Neurophysiology,  
Respiratory Physiology,  
hoonpark@jnu.ac.kr]
- Jong Seong Park  
[Professor, Neurophysiology,  
parkjs@jnu.ac.kr]
- Han Seong Jeong  
[Professor, Neurophysiology, Stem Cell  
Bioengineering,  
hsjeong@jnu.ac.kr]

## Department of Biochemistry

### —Contact Information

Phone: +82-61-379-2778

Fax: +82-61-

Senescence and Immunosenescence,  
kacho@jnu.ac.kr

• Young Kook Kim

[Assistant Professor, RNA biology,  
ykk@jnu.ac.kr]

### Research Interests

Biochemistry and molecular biology are essential learning as an academic foundation for medical students to identify the cause of diseases and develop therapies based on the molecular structure and function of biomolecules.

In the department of biochemistry, lectures including the structure and metabolism of proteins, lipids, carbohydrates, and nucleic acids, the regulation of metabolism, hormones, biological membranes, molecular biology, nutrition, cancer, aging, etc. are given to students, thereby widening their understanding of biochemistry.

For first-year medical students, the 'Biochemistry' course is offered (total: 80 hours of lectures; 5 credits), and for the second-year pre-medical students, a 'Cell Biology' course is offered (total: 45 hours of lectures; 3 credits). Biochemistry experiments are provided as a "Basic medical experiments" course in conjunction with the departments of microbiology, physiology, and pharmacology (total: 64 hours of practice; 2 credits). There are also lectures, experiments, and seminars for graduate students.

In the department of biochemistry, various experimental devices are equipped to study the fields of biochemistry and molecular biology. The main research topics include among others: studying the role of reactive oxygen species and the development of antioxidants, the elucidation of the aging process, the study of signaling in carcinogenesis and angiogenesis, the study of regulatory mechanisms by miRNA, etc.

### Professors

- Sung Yeul Yang  
[Professor, Prooxidant and Antioxidant Biology, Cytogerontology, syyang@jnu.ac.kr]
- Young Do Jung  
[Professor, Cancer Biology: Signal Transduction and Genetic Regulation in Angiogenesis and Cancer Metastasis, ydjung@jnu.ac.kr]
- Kee Oh Chay  
[Associate Professor, Cell Adhesion and Migration in Cancer Metastasis, kochay@jnu.ac.kr]
- Seung Rock Lee  
[Professor, Redox Biology and Medicine: Redox Regulation of Tumor Suppressor PTEN and Protein Tyrosine Phosphatases, Enzyme Activity and Cellular Function of Selenoproteins, Ascorbic Acid (Vitamin C) Derivatives. leesr@jnu.ac.kr]
- Kyung A Cho  
[Professor, Cell Signaling in Cellular

## Department of Pathology

### —Contact Information

Phone: +82-62-220-4321

Fax: +82-62-227-3429

The study of pathology is divided into General Pathology and Systemic Pathology. The former is concerned with the basic reactions to abnormal stimuli that underlie all diseases, while the latter examines the abnormal responses of specialized organs and tissues. The four aspects of disease process (etiology, pathogenesis, morphologic changes, clinical significance) are studied by means of lectures, laboratory work, classroom demonstrations, seminars, case studies, as well as through the use of fresh and museum specimens, along with a full collection of slide teaching sets. The first portion of the course is devoted to the subject of cellular injury and cellular death, cellular growth and differentiation, inflammation and repair, hemodynamic disorders, genetic disorders, disease of immunity, infectious diseases, and neoplasia. The rest deals with special systemic pathology, such as cardiology, hematology, pulmonology, gastroenterology, male and female reproductive systems, neuroscience, nephrology, endocrinology, and the musculoskeletal system.

### Professors

- Chang Soo Park  
[Professor, Lymphoreticular System Pathology, cspark@jnu.ac.kr]
- Min Cheol Lee  
[Professor, Neuropathology, mclee@jnu.ac.kr]
- Chan Choi  
[Professor, Pathology of Urinary Tract, cchoi@jnu.ac.kr]
- Jong Hee Nam  
[Professor, Gynecologic Pathology, jhnam@jnu.ac.kr]
- Jae Hyuk Lee  
[Professor, Pathology of Gastrointestinal Tract and Hepatobiliary/Pancreatic System, jhlee@jnu.ac.kr]
- Ji Shin Lee  
[Professor, Breast Pathology, jshinlee@hanmail.net]
- Yoo Duk Choi  
[Associate Professor, Respiratory pathology, drydchoi@jnu.ac.kr]
- Kyung Hwa Lee  
[Associate Professor, Neuropathology, gastrointestinal pathology, oncology, mdkaylee@jnu.ac.kr]

## Department of Pharmacology

### —Contact Information

Phone: +82-61-379-2840

Fax: +82-61-373-6974

Our research ranges from classical pharmacologic work to gene-based work. The following contains recent research interests of faculty members in our department:

1. Study of drug metabolism and pharmacogenomics
2. Characterization of transcriptional factors involved in cardiovascular diseases
3. Investigation of the effects of altering master gene expression on regulating osteoclast function.
4. Screening and characterization of the candidate genes involved in regulation of tumor cell invasion and metastasis
5. Characterization of the candidate genes involved in regulation of cell cycles
6. Functional analysis of vascular smooth muscles
7. Screening some neuroprotective agents in animal models and cultured neuronal cells
8. Study of the mechanisms of neuronal cell death
9. Development of animal disease models for research into cancer, cardiovascular diseases, and bone metabolic diseases; and the evaluation of the therapeutic potential of specific gene regulation using animal disease models
10. Philosophical reflection on drug therapy and problems of modern medicine
11. Research on medical humanities and ethics

### Professors

- Jong Keun Kim  
[Professor, Central Nervous System Pharmacology, ckkim@jnu.ac.kr]
- Kyung Keun Kim  
[Professor, Molecular Pharmacology, kimkk@jnu.ac.kr]
- Young Chae Lim  
[Professor, Clinical Pharmacology, limyc@jnu.ac.kr]
- Hyun Kook  
[Professor, Cardiovascular Pharmacology, kookhyun@jnu.ac.kr]
- Nack Sung Kim  
[Professor, Molecular Biology, nacksung@jnu.ac.kr]
- Jung Min Kim  
[Associate Professor, Molecular Biology, jungminkim@jnu.ac.kr]
- Gwang Hyeon Eom  
[Assistant Professor, Molecular Pharmacology, eomgh@jnu.ac.kr]

## Department of Microbiology and Immunology

### \_\_Contact Information

Phone: +82-61-379-8461

Fax: +82-61-



The graduate program in our department offers comprehensive and goal-oriented education, as well as intensive research training, in order to produce qualified and motivated young scientists who will be future leaders in the field of microbiology and immunology. It is our belief that collaborative research among our faculty members will maximize our potential to obtain greater achievements and to reach our goals sooner. Therefore, students in our department are encouraged to become active members of interactive and innovative research groups. Our research interests include cellular microbiology, oral microbiology, immunology, and cancer biology.



### Professors

- Boo Ahn Shin  
[Professor, Molecular Biology  
bashin@jnu.ac.kr]
- Hyon E Choi  
[Professor, DNA-Protein Interaction,  
hyonchoy@jnu.ac.kr]
- Phil Youl Ryu  
[Professor, Microbiology,  
pyryu@jnu.ac.kr]
- Joon Haeng Rhee  
[Professor, Molecular Microbiology,  
jhrhee@jnu.ac.kr]
- Young Jin Hong  
[Professor, Cellular Microbiology,  
yjhong@jnu.ac.kr]
- Jae Ho Jeong  
[Assistant Professor, Infection and Infection  
control, Bacterial molecular pathogenesis,  
Bacteria mediated cancer therapy,  
jeongjaeho@jnu.ac.kr]

## Department of Preventive Medicine

### \_\_Contact Information

Phone: +82-61-379-2621

Fax: +82-61-379-2650



Preventive medicine is a unique specialized field of medical practice composed of distinct disciplines that utilize skills focusing on the health of individuals, communities, and defined populations in order to prevent disease, prolong life and promote health through the organized efforts and informed choices of society, organization, public and private, communities and individuals. It is also called 'public health', which puts stress on the community rather than individuals, or 'social medicine' relating social factors to the disease.

Three special areas of preventive medicine are epidemiology, environmental and occupational health, and health policy and management. Epidemiology program has conducted two large-scale population-based cohort studies (Namwon study and Dong-gu study) to determine the etiologies of and effective preventive measures for cardiovascular disease, cognitive decline, osteoporosis and cancer. Health policy and management program deals with community-based health program development. Environmental and occupational medicine works to assess and reduce risks to individuals and communities from chemical, biological and physical hazards in the home, community, school, and workplace environments.



### Professors

- Seok Joon Sohn  
[Professor, Environmental and  
Occupational Medicine  
sohnsjx@jnu.ac.kr]
- Joon Ho Shin  
[Professor, Health Policy and Management,  
jhshin@jnu.ac.kr]
- Min Ho Shin  
[Professor, Epidemiology,  
mhshinx@paran.com]
- Sun-Seog Kweon  
[Associate Professor,  
Cancer Epidemiology,  
ujingogo@paran.com]

## Department of Forensic Medicine

### —Contact Information

Phone: +82-62-220-4090

Fax: +82-62-223-4250



Lectures in forensic medicine, 16 hours in the second quarter of the third year, provide the basic medicolegal knowledge necessary for application to both criminal and civil law and for medical practice, which consists of the cause of sudden unexpected natural death, pathophysiology of shock, post-mortem inspection, post-mortem changes, injuries, asphyxia, poisoning, several kinds of accidental death, DNA fingerprinting, as well as medical documents and medico-legal jurisprudence



### Professors

• Jong Tae Park  
[Professor, Forensic Pathology and  
Anthropology, Molecular Biology,  
jtpark@jnu.ac.kr]

• Hyung Seok Kim  
[Professor, Forensic  
Medicine, Neuropathology  
veritas@jnu.ac.kr]

## Department of Medical Education

### —Contact Information

Phone: +82-62-220-4175

Fax: +82-62-236-3653



The Department of Medical Education (DME) was established in 2001 at Chonnam National University Medical School (CNUMS). We have focused on nurturing primary doctors, medical scientists, and medical educators compatible with the educational purpose of CNUMS. We participate in a wide range of medical education activities. We offer many excellent courses and programs related to health professional education and research. We provide expertise in curriculum development, innovation in teaching and learning methods, support for the faculty program, and research in medical education.



### Professors

• Eun Kyung Chung  
[Professor, Medical Education,  
ekcmedu@jnu.ac.kr]

• Eui Ryung Han  
[Assistant Professor, Medical Education,  
jolie@jnu.ac.kr]

## Department of Biomedical Sciences

### —Contact Information

Phone: +82-61-379-2655

Fax: +82-61-

### Research Interest

We study biomedical sciences via molecular and cellular biology.

The following are recent areas of research by faculty members in our department.

1. Prof. In-Kyu Park: Delivery of genes and proteins into living organisms

Studies to increase the efficiency of the delivery of genes and proteins into living organisms, which would help to develop effective therapeutic modalities against human diseases.

2. Prof. Hee-Young Shin: Clinical epidemiology and research ethics

Prof. Hee-Young Shin works in the area of clinical epidemiology and research ethics. Dr. Shin is mainly interested in the scientific and ethical conduct of clinical trials. Clinical epidemiology and biostatistics are the basic elements to implement scientific clinical research. Moreover, ethical considerations are very important in developing innovative medical treatment. The other areas of interest are geriatric diseases (including dementia) and public health.

3. Prof. Seok-Yong Choi: Fate specification of glial cells

The central nervous system (CNS) consists of neurons and glial cells. Knowledge about fate specification of cells in the CNS is essential to develop therapeutic modalities for CNS diseases, especially neurodegenerative diseases. Whereas the fate specification of neurons has been studied extensively, research into glial cells remains unclear. Our research group investigates the fate specification of glial cells, especially ependymal cells, in the zebrafish model using genetic and cell biological approaches.

4. Prof. Jihoon Jo

Research in our lab focuses on a wide range of projects from molecular mechanisms of synaptic plasticity which is a strong model for learning and memory, and Neurodegenerative disease including Alzheimer's disease.

5. Prof. Hoon Hyun: Molecular Imaging

The lab focuses on the development of novel contrast agents for tissue- and organ-specific targeting and diagnosis. Of particular interest is "Structure-Inherent Targeting," where small molecules can be used for targeting, imaging, diagnosis and therapy by specifically visualizing target tissue with high optical properties and by avoiding nonspecific uptake in normal background tissue.

6. Prof. Vinoth Kumar Lakshmanan: Biomedical Sciences

Recent advances in cancer nanomedicines have attracted remarkable attention in medical sectors. Pharmacologic research on nanomedicines including targeted cancer therapy has increased dramatically in the past 5 years. The success stories of nanomedicines in the clinical field include the fabrication of nanomedicines that show minimum toxicity to healthy cells. Our research laboratory is exploring novel strategies for combating cancer, employing nanotherapeutics, to improve their safety and efficacy using animal models

### Professors

- In Kyu Park  
[Professor, Non-viral Gene Therapy,  
Biomedical Engineering,  
pik96d@gmail.com]
- Seok Yong Choi  
[Professor, zebrafish@jnu.ac.kr]
- Hee Young Shin  
[Associate Professor,  
Pharmacoepidemiology, Bioethics,  
hyshin@jnu.ac.kr]
- Jihoon Jo  
[Associate Professor,  
Pharmacoepidemiology, Bioethics,  
Jihoon.Jo@jnu.ac.kr]
- Vinoth Kumar Lakshmanan  
[Associate Professor, Cancer,  
Nanobiotechnology, vinoth@jnu.ac.kr]
- Hoon Hyun  
[Assistant Professor,  
Molecular Imaging, Cancer Therapy,  
Drug Delivery,  
hhyun@jnu.ac.kr]

## Department of Internal Medicine

### —Contact Information

Phone: +82-62-220-6296

Fax: +82-62-228-1330

The Department of Medicine has 9 subdivisions: gastroenterology, cardiology, pulmonology and critical care medicine, endocrinology and metabolic disease, nephrology, hemato-oncology, infectious disease, allergy, and rheumatology.

Medical students are instructed in case-orientated and problem-solving approaches to diverse medical problems. From their third year, students are grouped into small units for clinical practice and turn subdivisions every week where they learn clinical skills and complete their knowledge under close contact with professors, fellows, residents, and patients. Faculty deliver weekly lectures to residents and students. Also, there are weekly case conferences to show typical or difficult clinical problems and journal reviews.

### Professors

#### Gastroenterology

- Jong Sun Rew  
[Professor, Gastroenterology,  
jsrew@jnu.ac.kr]
- Sung Kyu Choi  
[Professor, Gastroenterology,  
choisk@jnu.ac.kr]
- Hyun Soo Kim  
[Professor, Gastroenterology,  
dshskim@jnu.ac.kr]
- Young Eun Joo  
[Professor, Pancreatobiliary Disease,  
yejoo@jnu.ac.kr]
- Chang Hwan Park  
[Professor, Gastroenterology,  
p1052ccy@hanmail.net]
- Wan Sik Lee  
[Professor,  
Gastroenterology, jadelook@hanmail.net]
- Sung Bum Cho  
[Associate Professor  
sb-cho-md@hanmail.net]

- Seon Young Park  
[Associate Professor  
drpsy@naver.com]
- Chung Hwan Jun  
[Associate Professor, Hepatology,  
estevanj@naver.com]

#### Cardiology

- Jong Chun Park  
[Professor, Echocardiography, Valve,  
Heart Failure jcpark@jnu.ac.kr]
- Jeong Gwan Cho  
[Professor, Electrophysiology, Arrhythmia,  
Heart Failure, Syncope,  
chojg@unitel.co.kr]
- Myung Ho Jeong  
[Professor, Intervention, Atherosclerosis,  
myungho@chollian.net]
- Young Keun Ahn  
[Professor, Intervention, Basic Study,  
cecilyk@hanmail.net]
- Hyung Wook Park

- [Associate Professor, Electrophysiology,  
Arrhythmia, Syncope,  
mdhwp@chol.com]
- Young Joon Hong  
[Associate Professor,  
Intervention, Atherosclerosis,  
hyj200@hanmail.net]
- Hyun Ju Yoon  
[Associate Professor,  
Echocardiography, Valves, Heart Failure,  
ann426@hanmail.net]
- Ju Han Kim  
[Professor, Intervention,  
Hypertension, drfrog@dreamwiz.com]
- Kye Hun Kim  
[Professor,  
Echocardiography, Valve, Heart Failure,  
christiankyehun@hanmail.net]
- Doo Sun Sim  
[Associate Professor,  
Intervention, Atherosclerosis,  
true1021@gmail.com]
- Nam Sik Yoon  
[Associate Professor,  
Electrophysiology, arrhythmia, syncope,  
NSAIDs77@hitel.net]
- Ki Hong Lee.  
[Associate Professor, Electrophysiology, Cardiac  
Device, Atrial fibrillation, Sudden cardiac arrest  
drgood2@naver.com]

#### Pulmonology

- Young - Chul Kim  
[Professor, Pulmonary and  
Critical Care Medicine,  
kyc0923@jnu.ac.kr]
- Sung - Chul Lim  
[Professor, Pulmonary and  
Critical Care Medicine,  
lscmd@jnu.ac.kr]
- Yu - Il Kim  
[Professor, Pulmonary and Critical Care  
Medicine, kyionly@jnu.ac.kr]

- Yong - Soo Kwon  
[Associate Professor, Pulmonary and  
Critical Care Medicine,  
yckwon@jnu.ac.kr]
- In - Jae Oh  
[Professor, Pulmonary and Critical  
Care Medicine, droij@jnu.ac.kr]
- Cheol Kyu Park  
[Assistant Professor,  
Pulmonology, Lung cancer,  
kpark214@jnu.ac.kr]

#### Endocrinology and Metabolism

- Dong Jin Chung  
[Professor, Endocrinology and  
Metabolism, Bone Vand Mineral  
Metabolism, Adrenal Metabolism,  
djchung@jnu.ac.kr]
- Ho Cheol Kang  
[Professor, Endocrinology and  
Metabolism, Diabetes Mellitus,  
drkang@jnu.ac.kr]
- Jin Ook Chung  
[Associate Professor,  
imagine-jjo@jnu.ac.kr]
- Hee Kyung Kim  
[Assistant Professor,  
albeppy@jnu.ac.kr]

#### Nephrology

- Nam Ho Kim  
[Professor, Acute Renal Failure, Diabetic  
Nephropathy, nhk111@jnu.ac.kr]
- Soo Wan Kim  
[Professor, Chronic Kidney Disease,  
Kidney Transplantation, Hemodialysis,  
Peritoneal Dialysis, skimw@jnu.ac.kr]
- Seong Kwon Ma  
[Professor, Chronic Kidney Disease,  
Hemodialysis, Diabetic Nephropathy,  
Hypertension, Glomerulonephritis,  
dmsk@jnu.ac.kr]
- Eun Hee Bae

[Professor, Chronic Kidney Disease, Hemodialysis, Hypertension, Diabetic Nephropathy, Glomerulonephritis, baedark@hanmail.net]  
• Chang Seong Kim  
[Assistant Professor, Kidney transplantation, Diabetic and Hypertensive Nephropathy, Translational research in Kidney diseases, laminion@hanmail.net]

### Hemato-oncology

- Hyeoung Joon Kim  
[Professor, Hematopoietic Stem Cell Transplant, Acute and Chronic AML, CML, hjoonk@jnu.ac.kr]
- Ik Joo Chung  
[Professor, Gastric Cancer, Colon Cancer, ijchung@jnu.ac.kr]
- Je Jung Lee  
[Professor, Hematopoietic Stem Cell Transplant, Lymphoma, Multiple Myeloma, drjejung@cnuh.jnu.ac.kr]
- Sang Hee Cho  
[Professor, Gastric Cancer, Colon Cancer, sh115@chollian.net]
- Yeo Kyeoung Kim  
[Associate Professor, Hematology-Oncology, yeokim@jnu.ac.kr]
- Deok Hwan Yang  
[Professor, Hematopoietic Stem Cell Transplantation, Lymphoid Malignancy, drydh1685@hotmail.com]
- Woo Kyun Bea  
[Associate Professor, ducko@unitel.co.kr]
- Jun Eul Hwang  
[Associate Professor, Medical Oncology, hjunyl@naver.com]
- Jae Sook Ahn  
[Assistant Professor,

Hematology-Oncology, f0115a@jnu.ac.kr]  
• Hyun Jeong Shim  
[Assistant Professor, Medical oncology, Breast cancer, Head and neck cancer hjnhj@jnu.ac.kr]  
• Sung Hoon Jung  
[Associate Professor, Hemato-oncology, Cellular immunotherapy shglory@hanmail.net]

### Infectious Diseases

- Sook In Jung  
[Professor, Infection, sijung@jnu.ac.kr]
- Hee Chang Jang  
[Associate Professor, Infection, haroc153@naver.com]
- Kyung Hwa Park  
[Associate Professor, Infection, medkid@dreamwiz.com]
- Seung Ji Kang  
[Assistant Professor, Infection, sseungi@hanmail.net]

### Allergies

- Young-Il Koh  
[Professor, Allergy, Asthma and Clinical Immunology, yikoh@jnu.ac.kr]

### Rheumatology

- Shin Seok Lee  
[Professor, Rheumatology, shinseok@jnu.ac.kr]
- Yong Wook Park  
[Professor, Rheumatology, parkyw@jnu.ac.kr]
- Tea Jong Kim  
[Associate Professor, Rheumatology, tkj1562@empal.com]

## Department of Surgery

### — Contact Information

Phone: +82-62-220-6456  
+82-61-379-7646  
Fax: +82-62-227-1635  
+82-62-379-7661

### ■ Sophomore course

The lecture course, 147 hours (7 credits) in total, covers general problems and must be taken for three quarters. There is an examination at the end of each quarter.

### ■ Junior and Senior course

The clerkship is 3 weeks: a week in the outpatient department, a week in gastrointestinal and hepatobiliary surgery, and a week in endocrinologic and pediatric surgery. The workload for clerks includes ward rounds, case assignments, and informal discussions with faculty surgeons as they appear in weekly schedules. All students should be prepared to participate in preoperative conferences and to assist at operations. Students are exposed to diseased patients who can or should be treated by operative intervention. Students participate in outpatient and inpatient care. They are expected to obtain enough experience in wound care and be familiar with important emergency procedures. Every Friday, case presentation is done by students, and an examination is given.

### ■ Divisions

Gastroenterologic Surgery, Colorectal Surgery, Hepaticobiliary and Pancreatic Surgery, Endocrine Surgery, Pediatric Surgery, Vascular and Transplantation Surgery, Trauma Surgery

## Professors

### Gastroenterologic Surgery

- Dong Yi Kim  
[Professor, Gastric Cancer and Benign Gastric Diseases, Trauma, dockim@jnu.ac.kr]
- Young Kyu Park  
[Professor, Gastric Cancer and Benign Gastric Diseases, parkyk@jnu.ac.kr]
- Seong Yeob Ryu  
[Professor, Gastric Cancer, Benign Colorectal Diseases, Trauma, drsy@jnu.ac.kr]

- Oh Jeong  
[Associate Professor, Gastric Cancer, Benign Colorectal Diseases, surgeonjeong@yahoo.co.kr]
- Ho Gun Kim  
[Assistant Professor, Gastric Cancer and Benign Gastric Disease, Laparoscopic Surgery, gastrectomy@hotmail.com]

### Colon and Rectal Surgery

- Young Jin Kim  
[Professor, Gastric Cancer and Colorectal Cancer, Surgical Oncology, kimyj@jnu.ac.kr]

- Hyeong Rok Kim  
[Professor, Colorectal Cancer, Benign, Proctology, Trauma, drkhr@jnu.ac.kr]
- Jae Kyun Ju  
[Professor, Colorectal Cancer, Benign Proctology Trauma, jku@jnu.ac.kr]
- Chang Hyun Kim  
[Assistant Professor, santiagokim@jnu.ac.kr]

### Hepaticobiliary and Pancreatic Surgery

- Chol Kyoon Cho  
[Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation, ckcho@jnu.ac.kr]
- Yang Seok Koh  
[Professor, koh88@dreamwiz.com]
- Young Hoe Hur  
[Associate Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation, surgihur@naver.com]

### Endocrine Surgery

- Jung Han Yoon  
[Professor, Breast Cancer, Endocrine Diseases, jhyoon@jnu.ac.kr]
- Min Ho Park

- [Associate Professor, Breast Cancer, Endocrine Diseases, thokthokl@hanmail.net]
- Jin Seong Cho  
[Associate Professor, Breast Cancer, sabiston@hotmail.com]

### Pediatric Surgery

- Sang Young Chung  
[Professor, Pediatric, Vascular and Transplantation Surgery, sycpvts@jnu.ac.kr]

### Vascular and Transplantation Surgery

- Soo Jin Na Choi  
[Professor, Pediatric, Vascular and Transplantation Surgery, choisjn@jnu.ac.kr]
- Ho Kyun Lee  
[Assistant Professor, Pediatric, Vascular and Transplantation Surgery, hklee@jnu.ac.kr]

### Traumatic Surgery

- Jung Chul Kim  
[Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation, 3rdviface@hanmail.net]

## Department of Obstetrics and Gynecology

### —Contact Information

Phone: +82-62-220-6376  
Fax: +82-62-227-1637

In the Department of Obstetrics and Gynecology, 80 hours of formal lectures for sophomore medical students are offered through the second quarter. The lectures for sophomores cover reproductive endocrinology, infertility, general gynecology, gynecological oncology, phenomena and management of pregnancy, labor and puerperium, in both normal and abnormal circumstances. Four weeks are devoted to a clerkship in the ward for clinical experiences of juniors. Daily clerkship begins with participation in journal meetings, beginning at 8:00 am. Students are encouraged to participate in answering and questioning. The objective of the clerkship is to acquaint the student with the varied aspects of the medical care for women, with emphasis on acquiring the basic skills of gynecologic and obstetrical history taking and physical examination, participating and assuming responsibility in the evaluation and care of outpatients and inpatients, and acquiring practical experience in the operating and delivery room areas with close supervision by the staff.

### Professors

- Sung Tack Oh  
[Professor, Endocrinology and Infertility, ohst@jnu.ac.kr]
- Yoon Ha Kim  
[Professor, Perinatology, Genetics, kimyh@jnu.ac.kr]
- Seok Mo Kim  
[Professor, Gynecologic Oncology, seokmo2001@hanmail.net]
- Chul Hong Kim  
[Professor, Urogynecology and Reconstructive Pelvic Surgery General Gynecology, hongkim@jnu.ac.kr]
- Moon Kyung Cho  
[Associate Professor, Endocrinology and Infertility, chomk@jnu.ac.kr]
- Jong Woon Kim  
[Associate Professor, Perinatology, Genetics, jwkimmd@jnu.ac.kr]
- Woo Dae Kang  
[Associate Professor, Gynecologic Oncology, kangwoodae@gmail.com]

## Department of Pediatrics

### —Contact Information

Phone: +82-62-220-6646

Fax: +82-62-222-6103

■ The Department of Pediatrics has been providing a diverse range of services aimed at achieving good health and well-being for all children since 1945. We provide active clinical services with 10 pediatric subspecialties including neurology, neonatology, hematology, oncology, cardiology, endocrinology, pulmonology, allergies, nephrology and gastroenterology.

We anticipate multidisciplinary, dedicated services with the launching of the new state-of-the-art CNU Children's Hospital in 2017. Being the largest tertiary referral pediatric hospital in the Chonnam Province, CNU Children's Hospital offer not only the most effective treatment and care, but also research activities to meet the needs of our patients, families and society in general.

#### Research interests:

1. Basic research and clinical care with extensive knowledge and experience on the treatment of hematologic malignancies, solid tumors, hematologic diseases, immune deficiencies, and rare diseases.
2. Clinical research on hematopoietic stem cell transplantation.
3. Research to identify the causative factors of pediatric malignancies (Environmental Health Center)
4. Preoperative diagnosis and postoperative care for children with congenital heart diseases. Therapeutic catheter interventions.
5. Right ventricular dysfunction in overload right ventricular pressure models in animals.
6. Biomarkers of diagnosis and genetic changes associated with vasculitis in Kawasaki disease.
7. Variable research on care and prognosis of ELBW (extreme low birth weight) infants.
8. The epidemiology and pathogenic mechanisms of perinatal infection and care of intrauterine infections.
9. Management of patients with childhood epilepsy, headache diseases, and other developmental disorders.
10. Molecular genetic studies for underlying abnormalities of variable neurologic disorders in childhood, clinical studies for the progress of epilepsy in early childhood, and developmental disorders associated with genetic or environmental etiologies.
11. Neonatal jaundice and liver diseases, pathogenesis and treatment of childhood obesity, steatohepatitis in children.
12. Diabetes mellitus, thyroid disease, precocious puberty, short stature, obesity, and Vitamin D metabolic diseases.

#### Professors

- Young Youn Choi  
[Professor, Neonatology, Genetics & Rare case  
yychoi@jnu.ac.kr]
- Young Jong Woo  
[Professor, Pediatric epilepsy, Developmental disorders  
Growth and development,

yjwoo@jnu.ac.kr]

- Hoon Kook  
[Professor, Hematopoietic stem cell transplantation for children, Genetic Rare Disease Center, Environmental Health Center for Childhood Leukemia and Malignancy  
hoonkook@jnu.ac.kr]
- Chan Jong Kim  
[Professor, Vitamin D metabolism, Congenital adrenal, hyperplasia, cjkim@jnu.ac.kr]
- Young Ok Kim  
[Associate Professor, Pediatric neurology,

- Epilepsy, Pediatric gastroenterology,  
ik052@jnu.ac.kr]
- Hee Jo Baek  
[Associate Professor, Hemato-oncology,  
Infection, pe00069@jnu.ac.kr]
- Eun Song Song  
[Associate Professor,  
Neonatology, essong@jnu.ac.kr]
- Hwa Jin Cho  
[Assistant Professor,  
Cardiology, Intensive Care Medicine,  
chhj98@gmail.com]

## Department of Psychiatry

### —Contact Information

Phone: +82-62-220-6146

Fax: +82-62-225-2351

■ The Department of Psychiatry in Chonnam National University Medical School - one of the oldest and leading faculties of psychiatry in Korea - has devoted more than 60 years to exceptional patient care, innovative research, and teaching. The close collaboration between research and clinics are one of our unique strengths, enabling us to provide patients with the best care available as we work to discover more effective strategies to prevent, control, and treat mental disorders. Researches has been carried out in various areas, particularly in the fields of mood disorders, anxiety disorders, schizophrenia, early intervention, geriatric psychiatry, psychopharmacology, psychiatric epidemiology, sleep medicines, psychosomatic medicines, child/adolescent psychiatry, and psycho-oncology. Our department has published many valuable papers in these areas, and we managed more than 50,000 patients per year in outpatient clinics in two national general hospitals. Also, we have managed several national centers for public mental health, schizophrenia rehabilitation, dementia, and child sexual abuse. Today, we continue our long tradition of established excellence in patient care, teaching, and research.

### Professors

- Jin Sang Yoon  
[Professors, psychopharmacology, schizophrenia and other psychotic disorders, sleep disorders, jsyoon@jnu.ac.kr]
- Il Seon Shin  
[Professor, dementia, geriatric psychiatry, organic mental disorder, isshin@jnu.ac.kr]
- Jae Min Kim  
[Professor, depressive disorders, alcohol and other substance-related disorder, biological psychiatry, jmkim@jnu.ac.kr]
- Sung Wan Kim  
[Associate Professor, schizophrenia, bipolar disorder, early intervention in psychiatry swkim@jnu.ac.kr]
- Kyeong Yeol Bae  
[Associate Professor, anxiety disorder, panic disorder, psychophysiology, kybae@jnu.ac.kr]
- Seon Young Kim  
[Associate Professor (non-tenured), psycho-oncology, psychosomatic medicine, consultation-liaison psychiatry, sykimpsy@jnu.ac.kr]

## Department of Neurology

### —Contact Information

Phone: +82-62-220-6173

Fax: +82-62-228-3461

■ The Department of Neurology provides a total of 33 lecture hours to 3rd year medical students during the 1st and 2nd quarters. Topics of lectures include instruction in neurology, neurologic diagnosis, cerebrovascular disease, seizure disorder, peripheral nerve disorder, movement disorder, infectious CNS diseases, headaches, and other CNS disorders. The lectures are designed to both satiate and stimulate the student's curiosity for "the secret of the brain." Clinical clerkships in neurology are available to 3rd and 4th year medical students. Students have the opportunity to participate in daily conferences, rounds, neuroimaging seminars, journal club, and group meetings for neurologic examination; assist in diagnostic procedures; and assist the emergency stroke team which is always on call. Operations occur around the clock for both interventional surgery and the early management of patients with potential for strokes.

### Professors

- Ki Hyun Cho  
[Professor, Stroke, kcho@jnu.ac.kr]
- Myeong Kyu Kim  
[Professor, Epilepsy, mkkim@jnu.ac.kr]
- Byeong Chae Kim  
[Professor, Cognitive Neurology, byeong.kim@jnu.ac.kr]
- Man Seok Park  
[Associate Professor, Stroke, Demyelinating Disease, mspark@jnu.ac.kr]
- Seung Han Lee  
[Professor, Neuro-ophthalmology, Neuro-otology, Neuromuscular Disease, nrshlee@jnu.ac.kr]
- Sung Min Choi  
[Professor, Movement Disorder, mvement@jnu.ac.kr]
- Joon Tae Kim  
[Associate Professor, Stroke, alldelight2@jnu.ac.kr]
- Tai Seung Nam  
[Associate Professor, Neuromuscular Disorder, nts0022@jnu.ac.kr]
- Kang Ho Choi  
[Assistant Professor, Stroke, Neurodegenerative disease, Headache, Sleep disorder, ckhchoikang@chonnam.ac.kr]

## Department of Dermatology

### —Contact Information

Phone: +82-62-220-6698

Fax: +82-62-222-4058



The Department of Dermatology conducts both clinical and basic research by 5 faculty members, 10 residents, 2 fellowship, 2 technicians, and individual research associates.

Faculty member areas of interest in research are:

#### 1) Mycology

The division of mycology is devoted to the investigation of fungal organisms causing skin diseases. Current interest of this division is to identify Dermatophyte species and Malassezia species, a normal flora of human skin, as a causative organism inducing various skin diseases, including atopic dermatitis and seborrheic dermatitis. The method used in this study includes fungal culture, morphology, PCR, and gene sequencing.

#### 2) Biochemistry and Photobiology

This division of biochemistry is devoted to the investigation of basic biochemical processes involved in normal physiology of skin. For example, the distribution and function of peroxiredoxin, an antioxidant, is identified by immunohistochemical stain and western blot analysis.

#### 3) Dermatopharmacology and Clinical Study

Skin pharmacology and toxicology has been studied under clinical efficacy evaluations using bioengineering measurements of physiological properties of skin. Clinical cosmetic research with various products and skin barrier function are performed with objective evaluation methods such as skin color, capacitance, TEWL(trans epidermal water loss), elasticity, and neurosensory functions.

#### 4) Dermatopathology

Our department has kept its own dermatopathology laboratory for over 25 years. Cumulative histopathologic archives are very useful for retrograde clinical studies, as well as immunopathology and tissue prep for Mohs surgery.

#### 5) PDT and LLLT

Photosensitizer and novel porphyrin derivatives are the research interests for treating acne and both benign and malignant skin tumors. Also, low-level laser therapy(LLLT) using light emitting diode(LED) are the main research interests for treating rosacea, photorejuvenation, various pigmentation disorders including melasma or Riehl's melanosis, et al. Industry sponsored clinical studies have been conducted for many years.



## Professors

- Young Ho Won  
[Professor, Dermatopathology,  
Skin Immunology, Mycology,  
yhwon@jnu.ac.kr]
- Seung Chul Lee  
[Professor, Photobiology,  
Skin Tumors,  
schul@jnu.ac.kr]

- Seong Jin Kim  
[Professor, Dermatotoxicology,  
Skin Bioengineering, seongkim@jnu.ac.kr]
- Jee Bum Lee  
[Professor, Laser and Light Therapy,  
Acne, Rosacea, jbmlee@jnu.ac.kr]
- Sook Jung Yun  
[Associate Professor, Dermatology,  
Malignant melanoma, Pigmentation  
sjderma@hanmail.net]

## Department of Orthopedic Surgery

### \_\_Contact Information

Phone: +82-62-220-6336  
+82-61-379-7676  
Fax: +82-62-225-7794  
+82-61-379-7681

Orthopedic surgery or orthopedics is the branch of surgery concerned with conditions involving the musculoskeletal system. The musculoskeletal system includes bones, joints, ligaments, tendons, muscles, and nerves. Orthopedic surgeons use both surgical and nonsurgical means to treat musculoskeletal trauma, sports injuries, degenerative diseases, infections, tumors, deformities and congenital disorders of extremities and spinal column.

### Professors

- Eun Kyoo Song  
[Professor, Knee Joint, Arthroplasty and Sports Medicine,  
eksong@jnu.ac.kr]
- Taek Rim Yoon  
[Professor, Hip Joint,  
Arthroplasty and Osteonecrosis,  
tryoon@jnu.ac.kr]
- Sung Taek Jung  
[Professor, Oncology and Pediatric Surgery,  
stjung@jnu.ac.kr]
- Keun Bae Lee  
[Professor, Foot and Ankle Trauma,  
kbleeos@jnu.ac.kr]
- Jong Keun Seon  
[Associate Professor,  
Knee Joint, Arthroplasty & Sports Medicine,  
seonbell@jnu.ac.kr]
- Hyoung-Yeon Seo  
[Associate Professor,  
Spine Surgery,  
hyseo2001@hanmail.net]
- Myung Sun Kim  
[Associate Professor,  
Shoulder Surgery,  
rhames@chol.com]
- Kyung Soon Park  
[Associate Professor, Hip Joint,  
Arthroplasty, Osteoporosis and Fracture,  
chiasma@hanmail.net]
- Sung Kyu Kim  
[Assistant Professor, Orthopaedics,  
Spine surgery,  
skkim@jnu.ac.kr]

## Department of Neurosurgery

### \_\_Contact Information

Phone: +82-62-220-6606  
+82-61-379-7666  
Fax: +82-62-224-9865  
+82-61-379-7673

The Department of Neurosurgery, one of the largest clinical services at the Chonnam National University Hospital, provides extensive inpatient and outpatient care opportunities. The mission of the department is the advancement of the specialty of neurosurgery through the interrelated efforts of resident training, patient care, and clinical and laboratory research. In particular, the experiences of the faculties fall into virtually every facet of this diverse specialty area. The department is committed to providing the highest quality of neurosurgical care for patients who have an illness or injury that affects the brain, spine, or peripheral nerves. We offer the full range of modern neurosurgical techniques, including cerebrovascular surgery, brain tumor surgery, skull-base surgery, spinal surgery, spinal instrumentation, transsphenoidal surgery, peripheral nerve surgery, stereotactic surgery for movement disorders, epilepsy surgery, pediatric neurosurgery, craniofacial reconstructive surgery, functional surgery, and neuroendovascular surgery. We also have perfected operations since the Neuronavigator system (Brain Lab) Can this be deleted? The sentence is fine without it; if it is kept, something must be added, such as when it was introduced.was introduced.

Research is integral to the department's clinical and academic goals. The department has a well-equipped basic science laboratory space, as well as facilities for clinical research. Current major research projects include brain tumors and molecular neurobiology, cerebral ischemia and experimental models for cerebral aneurysm joined with pharmacology, epilepsy, degenerative spinal disorders, spine injury, and other neurosurgical topics.

The four-year neurosurgery residency program focuses on providing broad academic, clinical, and research experience. We also offer a fellowship for residents interested in further specialization. Clinical internship programs are given to senior students. During the one-week internship, one week of clerkship, students participate in a daily neurosurgical preoperative and postoperative conference, rounds, other seminars, operations, special studies, and emergency care in the emergency and the neurosurgical intensive care unit. Assigned case studies are presented by students and are discussed with staff. Students are evaluated by written examinations, attendance, and the degree of participation in the clinical clerkship. A total of 57 lecture hours are given to third-year medical students during the first and second quarters. The lecture subjects include instruction in neurosurgery, neurosurgical diagnosis, cerebrovascular disease, brain tumors, spinal disorders, neurotrauma, pediatric neurosurgery, functional neurosurgery, and other CNS diseases.

### Professors

- Jae Hyoo Kim  
[Professor, Stereotactic Functional  
Surgery, Pituitary Surgery, Pediatric,  
Neurosurgery, jaehyoo@jnu.ac.kr]
- Shin Jung  
[Professor, Brain Tumor Surgery, Skull

Base Surgery, Molecular Neurosurgery,  
sjung@jnu.ac.kr]

- Tae Sun Kim  
[Professor, Cerebrovascular Disease  
and Experimental Models of Cerebral  
Ischemia, taesun1963@yahoo.co.kr]
- Jung Kill Lee  
[Professor, Spine and Spinal  
Cord Disorders, Head Injuries,  
jkl@jnu.ac.kr]
- In Young Kim  
[Associate Professor, Head Injuries,  
kiy87@hanmail.net]

- Sung Pil Joo  
[Professor, Surgery and Genetic  
Study of Cerebrovascular Disease,  
nsjsp@jnu.ac.kr]
- Kyung Sub Moon  
[Professor, Brain Tumor, Skull  
Base Surgery, Gamma Knife Radiosurgery,  
herhuz@hanmail.net]
- Tae-Young Jung  
[Professor, jung-ty@jnu.ac.kr]
- Woo Yeol Jang  
[Assistant Professor,  
breadot@hanmail.net]

## Department of Thoracic and Cardiovascular Surgery

### —Contact Information

Phone: +82-62-220-6546

Fax: +82-62-227-1636

■ The Department of Thoracic and Cardiovascular Surgery in our hospital originated in 1965. Currently, our department is subdivided into thoracic and cardiovascular centers, and has a rich tradition of dedicated surgeons who provide expert surgical services to patients with all types of diseases.

Our cardiovascular center offers a full complement of cardiac services for acquired heart disease (especially valve repair and replacement, coronary artery bypass grafts, treatment of thoracic aneurysm, and dissection) and congenital heart disease (especially neonatal heart surgery, adult congenital heart surgery).

Our thoracic center is treating patients who have pulmonary disease, mediastinal disease, and esophageal disease. Efficient cooperation within the medical staff encourages accurate diagnosis, surgery and other supportive care. Also, our department provides outstanding medical services to surgical patients through thoracoscopy and the Da Vinci Surgical Robot System.

Since our department involves vital organs critical to human life, we continue to strive to be the best.

### ■ Professors

- Bong Suk Oh  
[Professor, Esophagus and Valvular  
Heart Disease,  
bsoh@jnu.ac.kr]
- Kook Joo Na  
[Professor, Thoracic Oncology  
Thoracoscopic and Robotic Surgery,  
kjna@jnu.ac.kr]
- In Seok Jeong  
[Associate Professor,  
Congenital Heart Disease and Mechanical  
Circulatory Support, isjeong1201@gmail.com]
- Sang Gi Oh  
[Associate Professor,  
General Thoracic Surgery and  
Adult Cardiac and Vascular Surgery,  
drosg@hanmail.net]
- Sang Yun Song  
[Assistant Professor,  
General Thoracic Surgery and  
Thoracoscopic and Robotic Surgery,  
sysong@jnu.ac.kr]

## Department of Ophthalmology

### —Contact Information

Phone: +82-62-220-6753  
Fax: +82-62-227-1642

Since its establishment in 1945, the department of ophthalmology at Chonnam National University Medical School has faithfully implemented medical practice, research, and education, aiming to help the public maintain healthy vision. In particular, it is one of the best eye clinics in Korea, and provides professional care by specialists in ocular surfaces, cataracts, glaucoma, retinal and uveal diseases, oculoplasty, strabismus and pediatric ophthalmology, and neuro-ophthalmology using advanced medical equipment.

This department carries out approximately 50,000 procedures in outpatient care, 2,500 operations, and 1,500 specialized laser treatments per annum. In addition, since 1992, it has operated the Chonnam National University Eye Bank and performed about 600 cases of corneal transplantation surgery. In 2007, it carried out the first suture-less corneal endothelial transplantation surgery (DSAEK) in South Korea.

This department actively conducts basic experimental research, as well as much clinical research, by opening a certified animal laboratory for eye diseases. Through this, dozens of research articles, including SCI level international journals, have been published each year and our excellence in research has been recognized domestically and internationally. In addition, since 1996, the department of ophthalmology has hosted a nationwide ophthalmology academic symposium every year.

### Professors

- Kyung Chul Yoon  
[Professor, Cornea and external eye diseases, Cataract and refractive surgery, Oculoplasty, kcyoon@jnu.ac.kr]
- Sang Woo Park  
[Professor, Glaucoma, Cataract, exo70@naver.com]
- Hwan Heo  
[Assistant Professor, Strabismus, Pediatric Ophthalmology, ophey@hanmail.net]
- Yong Sok Ji  
[Associate Professor, Retina, Uveitis, yongsok.ji@jnu.ac.kr]

## Department of Otolaryngology and Head & Neck Surgery

### —Contact Information

Phone: +82-62-220-6776  
Fax: +82-62-228-7743

Established in 1942, Chonnam National University's Medical School's Department of Otolaryngology-Head and Neck Surgery is one of the oldest otolaryngology departments throughout the country. From the beginning until now, our mission and vision were to devote ourselves to cure patients and overcome diseases in the field.

We have a long tradition of enthusiastically taking care of ill patients, especially in the region. Chronic otitis media, dizziness, facial palsy, congenital and acquired hearing loss etc. have been our major targets in the otologic field. Benign and malignant tumors, voice problems and many infectious diseases were cured in the heads and necks of patients. Finally, Allergic rhinitis, sinusitis, and (reconstructive) facial plastic surgery were done in the rhinologic division.

We are committed to training the next generation of leaders in the field, including medical students, residents, fellows, and post-doctors. Since the opening of our department, we have been sending out a constant stream of outstanding doctors and researchers in the field of otolaryngology on a national scale.

We have embarked on a new era in the treatment of otolaryngologic by conducting clinical and basic research. Our department has been and is performing many clinical trials, by ourselves and also for international companies. We have a research center for hearing regeneration, head and neck cancer, and Nasal physiology & rhinitis. We have performed and pioneered innovative developments in the diagnosis and treatment of ear, nose, and throat diseases.

### Professors

- Yong Beom Cho  
[Professor, Otolaryngology, Rhinology, choyb@jnu.ac.kr]
- Chul Ho Jang  
[Professor, Otolaryngology, chulsavio@hanmail.net]
- Sang Cheol Lim  
[Professor, Head and Neck Surgery, limsc@hanmail.net]
- Hyong-Ho Cho  
[Professor, Pediatric Otolaryngology, victocho@hanmail.net]
- Joon Kyoo Lee  
[Professor, Head and Neck Neoplasm Laryngology, joonkyoo@hanmail.net]
- Tae Mi Yoon  
[Associate Professor, Head and Neck Neoplasm Laryngology, loveteam96@hanmail.net]
- Dong Hoon Lee  
[Associate Professor (non-tenured), Rhinology, Skull base surgery, Salivary gland tumor, Pediatric otorhinolaryngology, leen3l@hanmail.net]

## Department of Plastic and Reconstructive Surgery

### —Contact Information

Phone: +82-62-220-6354  
Fax: +82-62-220-6357

■ During the 2nd year curriculum, a total of 10 hours of lectures are given on various topics including reconstructive plastic surgery, congenital anomalies, hand surgery, head and neck surgery, skin tumors, and trauma (including burns). Students are given the opportunity to pursue a one-week clinical clerkship during the 3rd or 4th year of medical school. Student activities include accompanying rounds, receiving case assignments, and informal discussion sessions with staff. Students observe outpatient care in the outpatient clinic and participate in inpatient care under the guidance of residents. Through bedside teaching, students are expected to gain experience in the field of plastic surgery, become familiar with practical patient care, and attend regularly scheduled departmental conferences.

### Professors

- Sam Yong Lee  
[Professor, Head and Neck Tumor, Breast Reconstruction, sylee@jnu.ac.kr]
- Kwang Seog Kim  
[Professor, Microsurgery,
- Hand Surgery, pskim@jnu.ac.kr]
- Jae Ha Hwang  
[Assistant Professor, Aesthetic Surgery, Trauma psjhhwang@daum.net]

## Department of Urology

### —Contact Information

Phone: +82-62-220-6700  
+82-61-379-7745 (Hwasun Hospital)  
Fax: +82-62-227-1643  
+82-61-379-7750 (Hwasun Hospital)

■ The Department of Urology was established at Chonnam National University in September 1967. The mission of our department of urology is committed to offering the highest quality urologic care, innovative research programs, an outstanding education for world-class leaders, and the discovery and evolution of new ideas and information about urologic disease, from research to the clinical implementation phases of disease control in the field. The Department of Urology has several subdivisions: Uro-oncology, Voiding Dysfunction, Sexual Medicine, Pediatric Urology, Endourology, Urinary Infection, Prostate Disease, Urinary Trauma and Reconstruction, and Urinary Ultrasonography. Our residency and student program is one of the best in the country.

The Department enjoys the strong support of the Chonnam National University Hospital, which is also affiliated with the Hwasun University Hospital and School of Medicine.

### Professors

- Kwang Sung Park  
[Professor, Sexual Medicine, Prostate disease, uropark@gmail.net]
- Dong Deuk Kwon  
[Professor and Chairman, Uro-oncology, Prostate Disease, Female Urology, urokwon@gmail.com]
- Taek won Kang  
[Professor, Uro-oncology, sydad@hanmail.net]
- Seung Il Jung  
[Professor, Uro-oncology, Endourology, Urinary Infection, drjis@yahoo.co.kr]
- Sun Ouck Kim  
[Associate Professor, Pediatric Urology, Female Urology, Neurology, seinsena@hanmail.net]
- Kyung Jin Oh  
[Assistant Professor, Endourology, Urinary Trauma and Reconstruction, Urinary Ultrasonography, exeokj@hanmail.net]
- Eu Chang Hwang  
[Associate Professor, Urologic Oncology, Genito-urinary infection, urohwan@gmail.com]

## Department of Anesthesiology and Pain Medicine

### —Contact Information

Phone: +82-62-220-6893-5

Fax: +82-62-232-6294

The Department of Anesthesiology and pain medicine was established at Chonnam National University in 1961. Since that time, the Department of Anesthesiology and pain medicine has offered a full range of educational and research opportunities in anesthesia, critical care, and pain management.

Our Department has focused on specific aspects of each of these areas in which faculty members have established strength or increased potential for development.

The research programs include both basic science and applied clinical sciences. These priority research areas are:

#### A. Cardiovascular Anesthesia Laboratory

Our cardiovascular laboratory focuses on preventing myocardial infarction and its reperfusion injury. The main objective of our laboratory is to search for cardioprotective mechanisms of known or newly manufactured drugs.

In the early 1990's, cardiovascular research focused mostly on hemodynamic effects of study drugs. In that period, Professor Kyung Yeon Yoo, who studied stunned myocardium, performed animal testing using dogs. Nowadays, we are carrying out experiments on rats with an ischemia/reperfusion model. We are also focusing on the Reperfusion Injury Salvage Kinase (RISK) Pathway in ischemia/reperfusion injury.

#### B. Research for Critical Care Medicine

The Division of Critical Care is dedicated to the collaborative research that improves the management and outcome of critically ill patients. Over the past several years, our research activities have focused on four topics related to patient outcome, respiratory critical care, sepsis laboratory, and basic research:

1. Interventional studies aimed at decreasing the incidence of complications in critically ill patients, such as 'A Comparative Study on Weaning Time of Mechanical Ventilation as Analgesic Strategy Using Different Opioids'
2. Animal studies aimed at finding out the protective effects of new materials or drugs against acute lung injury in animal models
3. Molecular and cellular investigations on pathophysiology of inflammation and sepsis

#### C. Pain Medicine

The main research interests of this laboratory include the pathophysiological mechanisms of neuropathic, inflammatory, and cancer-related pain to provide rationale for new therapy. The research emphasis is focused on various neurotransmitters and their receptors, or channels implicated in the modulation of nociception in the spinal cord. We utilize various rodent models inducing chronic pain, behavioral analysis of nociception, and molecular biologic methods.

### Professors

- Myung Ha Yoon  
[Professor, Pain Management, Neuroanesthesia, mhyoon@jnu.ac.kr]
- Sang Hyun Kwak  
[Professor, Critical Care Medicine, Cardiac Anesthesia, shkwak@jnu.ac.kr]
- Seong Wook Jeong  
[Professor, Anesthetic Pharmacology, Critical Care Medicine, anesman@jnu.ac.kr]
- Jeong Il Choi  
[Professor, Pain Management, Neuroanesthesia, jichoi@jnu.ac.kr]
- Hong Beom Bae  
[Professor (non-tenured), Cardiac Anesthesia, Critical Care Medicine, nextphil2@jnu.ac.kr]
- Seong Tae Jeong  
[Associate Professor (non-tenured), Neuroanesthesia, Pediatric Anesthesia, anesjst@jnu.ac.kr]
- Hyung Kon Lee  
[Associate Professor (non-tenured), Pain Management, Regional Anesthesia, leehg@jnu.ac.kr]
- Woong Mo Kim  
[Associate Professor (non-tenured), Pain Management, Regional Anesthesia, kimwm@jnu.ac.kr]
- Joungmin Kim  
[Assistant Professor, Ventilator induced lung injury and sepsis, tca77@jnu.ac.kr]

## Department of Radiology

### —Contact Information

Phone: +82-62-220-5746

Fax: +82-62-226-4380



Accurate diagnosis is the starting line of patient care. Our department of radiology at Chonnam National University aims to offer the best patient health care available.

The department operates various state-of-the-art diagnostic modalities such as 3.0T MRI, 128 channel volume CT, ultrasound, fluoroscopy, mammography, and plain radiography.

Our radiologists perform and provide interpretations of radiologic exams, biopsy procedures guided by ultrasound or CT scans, and also various interventional treatments for vascular diseases, biliary or urinary tract diseases as well as oncologic interventions such as transarterial chemoembolization (TACE) and radiofrequency ablation (RFA).

In addition to clinical practices, we continuously pursue excellence in health care through research, education, and active interaction with fellow clinicians through consultations or conferences.

The department of radiology consists of the following specializations:

- Abdominal radiology
- Genitourinary radiology
- Thoracic radiology
- Cardiovascular radiology
- Neuroradiology and Head and Neck radiology
- Musculoskeletal radiology
- Breast radiology
- Pediatric radiology
- Interventional radiology



### Professors

- Jin Gyoon Park  
[Professor, Musculoskeletal Radiology,  
parkjg@jnu.ac.kr]
- Jae Kyu Kim  
[Professor, Cardiovascular and  
Interventional Radiology,  
kjkrad@jnu.ac.kr]
- Yun Hyeon Kim  
[Professor, Thoracic Radiology,  
cardiovascular Radiology,  
yhykim001@jnu.ac.kr]
- Yong Yeon Jeong  
[Professor, Oncologic Imaging &  
therapy, Molecular Imaging &  
Gastrointestinal Radiology, yjeong@jnu.ac.kr]
- Woong Yoon  
[Professor, Neuroimaging  
Neurointervention, radyoon@jnu.ac.kr]
- Sang Soo Shin  
[Professor, Abdominal,  
Genito-urinary Radiology,  
kjrads@dreamwiz.com]

- Hyo Soon Lim  
[Professor, Breast Radiology,  
nico1220@dreamwiz.com]
- Suk Hee Heo  
[Associate Professor,  
Abdominal & Genitourinary Imaging,  
sheo@jnu.ac.kr]

- Jin Woong Kim  
[Associate Professor,  
Abdominal Radiology, Oncologic ablation,  
radjin@jnu.ac.kr]
- Il Woo Park  
[Assistant Professor, Magnetic Resonance  
Imaging, Hyperpolarized carbon-13 MR  
Metabolic Imaging, ipark@jnu.ac.kr]

## Department of Radiation Oncology

### —Contact Information

Phone: +82-61-379-7226

Fax: +82-61-379-7249



The mission of Department of Radiation Oncology is to advance the state of knowledge in radiation oncology, to provide the most optimal cancer therapy, to educate medical students, physicians, radiation technologists, physicists, and to develop state-of-the-art research models that can be translated into clinical trials.

Our faculty members are working in close cooperation with colleagues in surgical and medical oncology to facilitate a comprehensive multidisciplinary team approach for the implementation of qualified cancer management.

About three hundred cancer patients are daily visiting on weekdays. Our department is equipped with two CT-simulators, five linear accelerators including Novalis Tx, high dose rate remote controlled after-loading system for brachytherapy, and TomoTherapy. We provide a wide range of radiation treatment options including high precision 3-D conformal radiation therapy, high dose rate brachytherapy, stereotactic radiotherapy, intensity modulated radiation therapy (IMRT), total body radiation, respiratory gated radiotherapy, and image-guided radiotherapy (IGRT).

Recently faculty members are actively involved in various prospective clinical trials which are conducted by Korean Radiation Oncology Group(KROG) and Radiation Therapy Oncology Group (RTOG).



### Professors

- Woong-Ki Chung  
[Professor, Radiation Oncology for the Brain Tumor, Head and Neck Cancer, Lymphoma  
wkchung@jnu.ac.kr]
- Sung Ja Ahn  
[Professor, Radiation Oncology for Lung and Breast Cancer  
ahnsja@jnu.ac.kr]
- Taek Keun Nam  
[Professor, Radiation Oncology for Gastrointestinal, Genito-Urinary and Hematologic Tumor, Soft Tissue Sarcoma,  
tknam@jnu.ac.kr]
- Ju Young Song  
[Assistant Professor (non-tenured), Medical Physics (Radiation Therapy Physics),  
jysong@jnu.ac.kr]
- Mee Sun Yoon  
[Associate Professor (non-tenured), Radiation Oncology for Gynecologic, Breast, and Pediatric Tumor,  
meesunyoona@jnu.ac.kr]

## Department of Laboratory Medicine

### —Contact Information

Phone: +82-62-220-5353

Fax: +82-62-224-2518



The Department of Laboratory Medicine is devoted to cutting-edge laboratory service, outstanding biomedical research, and comprehensive education in our field. Our department includes six services: diagnostic hematology, clinical chemistry, laboratory immunology, clinical microbiology, transfusion medicine, and cytogenetics & molecular genetics. Our department provides laboratory testing for inpatients and outpatients at Chonnam National University Hospital (CNU) and Chonnam National University Hwasun Hospital (CNUHH). There is a laboratory information system (LIS) that interfaces with the hospital information system.

Research interests:

- Diagnostic molecular biology for hematologic malignancy and blood transfusions
- Pathogenesis of fungal infections and antifungal susceptibility testing
- Development of disease-specific biomarkers (tumor markers)
- Diagnostic immunology and molecular diagnostics



### Professors

- Soon Pal Suh  
[Professor, Clinical Chemistry, Immuno-Chemistry, spsuh@jnu.ac.kr]
- Jong Hee Shin  
[Professor, Clinical Microbiology, shinjh@jnu.ac.kr]
- Myung Geun Shin  
[Professor, Diagnostic Hematology, Molecular Diagnostics, Cytogenetics, mgshin@jnu.ac.kr]
- Seung Jung Kee  
[Professor, Diagnostic Immunology, Diagnostic Molecular Genetics, sjkee@jnu.ac.kr]
- Soo Hyun Kim  
[Professor, Clinical Microbiology, alpinboy@jnu.ac.kr]
- Hyun Jung Choi  
[Assistant Professor, Clinical chemistry, hyunjung.choi@jnu.ac.kr ]

## Department of Nuclear Medicine

### —Contact Information

Phone: +82-62-220-5646

Fax: +82-62-223-1666

■ The Department of Nuclear Medicine provides various diagnostic and therapeutic services for the patients in a safe and non-invasive way. The imaging service furnish specifically functional information along with anatomical one of organ or body part for early diagnosis, characterization and determination of severity and prognosis, and prediction of therapeutic responses of diseases. Department provides radionuclide-based therapeutic modalities for a variety of diseases including many types of cancer, heart disease, gastrointestinal, endocrine, neurological disorders and other abnormalities.

In addition to clinical services, department's research and develop focuses on new innovative imaging technologies to decipher the transformation from normal healthy to abnormal diseased state on biochemical and molecular/cellular level. It also develops the simultaneous Imaging-and-Therapeutic (Theragnostics) technology based on the diversification of radiotracers and bioactive molecules/microorganisms.

The ultimate mission/goal of Nuclear Medicine Department is to provide a new avenue with pioneering medical science and technologies for the determination of the status of health, identification of early symptoms and signs for the diseases, prediction of disease courses and the demonstration of precise molecular profile of diseases as a part of the new era of the precision medicine.

### ■ Professors

- Hee Seung Bom  
[Professor, Nuclear Cardiology,  
Radionuclide Therapy, Biomedical  
Informatics, hsbom@jnu.ac.kr]
- Ho Chun Song  
[Professor, Nuclear Neurology, Radionuclide  
Therapy, Medical Radiation Safety  
songhc@jnu.ac.kr]
- Jung Joon Min  
[Professor, Molecular Imaging,  
Cancer Theragnostics, Nuclear Oncology  
jjmin@jnu.ac.kr]
- Chang Ho Lee  
[Assistant Professor, Biomedical Optical  
imaging, Molecular imaging, Photoacoustic  
ch31037@jnu.ac.kr]

## Department of Emergency Medicine

### —Contact Information

Phone: +82-62-220-6809

Fax: +82-62-228-7417

■ The goal of the Department of Emergency Medicine is to provide the highest quality of emergency medical care to our patients within the setting of advanced research, training, and education. The main focus of research and clinical activities of the department is on cardiopulmonary resuscitation such as basic life support, advanced cardiovascular life support, and advanced trauma life support. The department is also a pioneer in the development of novel solutions to improve several critical and interesting clinical areas including toxicology, emergency medical service system, environmental medicine, disaster medicine, and critical care medicine. Through these activities the members of the department are proud to be able to provide cutting-edge and state-of-the-art emergency care in the community.

### ■ Professors

- Young Il Min  
[Professor, Advanced Cardiac  
Life Support, Trauma,  
miny46@hanmail.net]
- Tag Heo  
[Professor, Cerebral Resuscitation, Toxicology,  
docheo@hanmail.net]
- Byeong Jo Chun  
[Professor, Toxicology, cbjbawoo@hanmail.net]
- Jeong Mi Moon  
[Professor, Toxicology,  
Resuscitation, drmjm@hanmail.net]
- Kyung Woon Jeung  
[Associate Professor, Resuscitation,  
neoneti@hanmail.net]
- Hyun Ho Ryu  
[Associate Professor, Trauma,  
oriryu@hanmail.net]
- Byung Kook Lee  
[Associate Professor, Resuscitation,  
bbukkuk@hanmail.net]

## Department of Physical & Rehabilitation Medicine

### —Contact Information

Phone: +82-62-220-5186

Fax: +82-62-228-5975



The Department of Physical & Rehabilitation Medicine (PRM) is active in developing clinical rehabilitation medicine and furthering clinically applied basic rehabilitation science research. This PRM Lab (a.k.a. Dynamic Rehabilitation Medicine Science and Technology Institute Lab) has deep interests in Neuro-Rehabilitation, Musculoskeletal rehabilitation, Pain rehabilitation, Cardiac rehabilitation, Pulmonary rehabilitation, Pediatric rehabilitation, and Geriatric rehabilitation. We have not only general rehabilitative therapeutic facilities for Physical therapy, Exercise therapy, Occupational therapy, and ADLs training but also special laboratory facilities for Neurophysiologic exercise including Electromyogram-Biofeedback training systems and RS (rehabilitation system) models of BTE (Baltimore therapeutic equipment) systems, 3D-Motion analysis systems, Electrodiagnostic Lab I (for electromyographic studies and intraoperative monitoring) and Electrodiagnostic Lab II (for evoked potential studies and transcranial magnetic stimulation studies) for the diagnosis and the management of muscle and nerve diseases, and a Digital infrared thermography Lab for the evaluation of neuromusculoskeletal pain and its outcomes. We also have cutting-edge rehabilitation systems for improving neuronal plasticity such as finger-synchronized robot-assisted hand rehabilitation systems, body weight support treadmill training systems, dynamic balance evaluation and training systems, 3-D motion analysis systems, and repetitive transcranial magnetic stimulation (rTMS) with Neuronavigation Systems (Brainsight™) for noninvasive brain stimulation. Several research areas are in active operation, provided with evidence-based rehabilitation services for the best functional outcome.

The Neuro-Rehabilitation Team deals with the evaluation and management of patients with strokes, traumatic brain injuries, spinal cord injuries, and cerebral palsy. Our main interests of research rest on neurological recovery with neural reorganization and plasticity, and functional recovery. We also provide non-invasive brain stimulation for people with motor impairments, cognitive disorders, aphasia, and central neuropathic pains. Neurological functions can be improved by stimulating focal brain areas using transcranial magnetic stimulation or transcranial direct current stimulation.

The Musculoskeletal & Sports Rehabilitation Team deals with the evaluation and management of people with a broad range of muscle and joint problems such as back, shoulder, knee, arm or hand pain, and any other musculoskeletal pain or dysfunction caused by trauma, overuse, maladaptive lifestyles, or sporting activities. Individuals with acute and chronic injuries, muscle imbalance, and overuse (repetitive strain) injuries participate in a comprehensive pain management program aimed at restoring functional capabilities and increasing functional status to return home and to the wider community.

The Pain Rehabilitation Team deals with any pain patients receive due to neuromuscular or musculoskeletal pathology, and cancer. The aim of pain rehabilitation is also to increase the functional status and quality of life through various pain-relieving interventions.

The Cardiac Rehabilitation Team deals with the functional evaluation and management of patients with cardiovascular diseases using various aerobic exercise equipment, such as: treadmills, bicycles with ergometers, and upper extremity ergometers. The aim of cardiac rehabilitation is to maintain, restore,

and increase the optimal physical, medical, psychological, emotional, vocational, and socioeconomic status of the patients and to maximize the quality of life of patients.

The Pulmonary Rehabilitation Team deals with the functional evaluation and management of persons with pulmonary diseases such as chronic obstructive pulmonary diseases, restrictive lung diseases, and intrinsic lung diseases with the goal of achieving and maintaining the individual's maximum level of independence and functioning in the community.

The Pediatric Rehabilitation Team deals with the functional evaluation and management of pediatric patients with developmental delays, cerebral palsy, musculoskeletal problems such as flat feet and torticollis, and congenital anomalies such as myelomeningocele. We evaluate the status of the children thoroughly and discuss plans for current and long-term management, home-care, as well as dispensing information about the prognosis and precautions that may be taken.

The Geriatric Rehabilitation Team focuses on the functional evaluation and management of symptoms and functions of aging individuals to prevent or minimize disabilities and functional deterioration in order to create and maintain healthy longevity.

The Cancer Rehabilitation Team deals with the evaluation and management of patients with pain and neurological symptoms associated with cancer, peripheral polyneuropathy, dysphagia, lymphedema, and so on. Our main interests of research rest on improving quality of life and reducing complications for cancer patients.

The Neuromuscular Electrodiagnosis Team provides neurophysiological approaches in determining the cause of muscular problems (weakness, wasting diseases, spasms, fatigue, etc.) or sensory problems (decreased sensations, abnormal sensations, etc.). Using various electrophysiological tests of muscles and nerves, we can determine the location, severity and recovery status of nerve and muscle lesions.

The Orthotics and Prosthetics Team implement Orthotic devices to help to improve the function of weakened muscles and joints, correct changes in joint structure, and protect weakened joints on the basis of 3-D motion analysis. Prosthetic devices are used for individuals who lost limbs due to accidents or illnesses, or those born without limbs, to regain function. We offer a multidisciplinary clinical service for patients who need orthotic or prosthetic devices while offering courses of study and education for functional improvement.

Finally, this PRM Lab researches the biomedical sciences oriented to rehabilitation medicine and aims to devote itself to the health and longevity of humans.

We also contribute to an environment which provides optimal rehabilitation for the disabled who reside in the local communities of Gwangju and the wider Jeonnam province in cooperation with other national and regional rehabilitation centers.



## Professors

- Sam-Gyu Lee  
[Professor, Brain Neuro-Rehabilitation,  
Neuro-Musculo-Skeletal Pain Rehabilitation,  
Geriatric Rehabilitation, sam91@jnu.ac.kr]
- Jae-Young Han  
[Associate Professor,  
Cardiac Rehabilitation,  
Neuro-Musculo-Skeletal Pain Rehabilitation,  
Pediatric Rehabilitation, mhanjy@daum.net]

Department of  
Occupational and  
Environmental Medicine

— *Contact Information*  
Phone: +82-61-379-8253  
Fax: +82-61-379-7791

■ Occupational and Environmental Medicine has continued to become more widely recognized as a specialty with unique capabilities for preventing and treating illnesses and injuries related to working and environmental conditions.

The mission of Occupational and Environmental Medicine is to: identify agents in the environment and workplace that affect human health, elucidate their mechanisms, develop strategies for confronting their effects, assess and communicate their risks, and share the knowledge obtained. To pursue the mission fully, multidisciplinary practices covering clinical medicine, toxicology, industrial hygiene, epidemiology, law, and other public health sciences are needed.

The components of research and services include chemical toxicity, heavy metal exposure, solvent toxicity, epigenetics, occupational asthma, occupational lung diseases, occupational skin diseases, occupational neurological disorders, cumulative traumatic disorders, noise-induced hearing loss, comprehensive risk communication, workers' health management, and diseases of healthcare workers among others.

In addition, students have opportunities to get lectures and conduct their practice in the Department of Occupational and Environmental Medicine Clinic.

■  
**Professors**

- Jai Dong Moon  
[Professor, Occupational & Environmental  
Epidemiology, Epigenetics, Workers' health  
management, [jdmoon@chollian.net](mailto:jdmoon@chollian.net)]

Department of  
Biomedical Engineering

— *Contact Information*  
Phone: +82-62-220-6075  
Fax: +82-62-226-4762

■ Biomedical engineering is the application of engineering principles to solve health and medical problems. The discipline focuses both on understanding complex living systems via experimental and analytical techniques and on development of devices, methods and algorithms that advance medical and biological knowledge while improving the effectiveness and delivery of clinical medicine.

## Department of Family Medicine

—*Contact Information*  
Phone: +82-61-379-7290  
Fax: +82-61-379-

■ Family medicine is the specialty devoted to comprehensive healthcare for the individual and families across all ages, genders, diseases, and parts of the body. The aim of family medicine is to provide personal, comprehensive, and continuing care for individuals in the context of the family and the wider community.

Family physicians deliver a range of acute, chronic and preventive medical care services while providing patients with a patient-centered medical facility. In addition to diagnosing and treating illnesses, we also provide preventive care, including routine check-ups, health-risk assessments, immunization and screening tests, and personalized counseling on maintaining a healthy lifestyle. Family physicians also manage chronic illnesses, often coordinating care provided by other medical specialists. From heart disease, strokes and hypertension, to diabetes, cancer and asthma, family physicians provide ongoing, personal care for the nation's most serious health problems.

### Professors

- Yeon-Pyo Kim  
[Associate Professor,  
health promotion of aged person, frailty,  
sarcopenia, [ypkim@jun.ac.kr](mailto:ypkim@jun.ac.kr)]

## Research Institute of Medical Sciences

—*Contact Information*  
Phone: +82-61-379-2881  
Fax: +82-61-379-7791

■ The Institute was established in 1979 to promote research activities in the medical fields, both basic and clinical, thereby contributing to the advancement of medical sciences as well as to the improvement of national health care. It provides many high-tech facilities and equipment for researchers in addition to research funds. The Institute publishes an academic periodical, the Chonnam Medical Journal (Korean, from 1964 to 2010, 2-4 issues/year; English, from 2011 to present, quarterly) and also published the Chonnam Journal of Medical Sciences (English, from 1988 to 1997, biannually). The Institute consists of two committees (administration and editorial), three divisions (Human Structure Research, Human Function Research, and Community Medicine Research) and eight laboratories (Culture, Morphology, Proteomics, Clinical and Imaging Anatomy, Cell Biology, Dermato-Physiology, Biochemical Analysis, and Molecular Biology) and is managed for extensive collaborative research.