

Medicine



Assistant Professor Division of Ophthalmology, Department of Surgery
Division of Vascular Biology, Department of Physiology and Cell Biology

Akiyoshi Uemura, M.D., Ph.D.

Whenver I examined the eyes of diabetic patients during my traineeship as a clinical ophthalmologist, I always wondered how the formation of blood vessels occurs due to retinal ischemia. This question motivated me to investigate the molecular mechanisms requisite for the hypoxia-driven vascular development in mouse retinas, in Kyoto University and RIKEN Center for Developmental Biology. These experiences both as an ophthalmologist and a researcher prompted me to

apply the findings obtained from the basic research to the clinical treatment. Here in Kobe University, I currently focus my investigation to the following questions: 1) what are the signaling molecules determining the direction of endothelial sprouting, and 2) what are the transcription factors controlling the proangiogenic activities of retinal astrocytes. I expect these studies to be beneficial for developing the novel therapeutic modalities for diabetic retinopathy, as well as various ischemic diseases in retina and other organs.



International Student Republic of Indonesia

Yanti Anggraeni Vita

My dream is to be a cardiologist. I think it is important to be a good cardiologist. To fulfill the need to be a good cardiologist, I decided to study further about basic and translational science of cardiology in Japan. I was in my third year of study to be a cardiologist in my country, Indonesia, when I was accepted into the Cardiovascular Division in the Internal

Department of Kobe University. This was a bright new hope for me as I continued on my way to becoming a good cardiologist. Now, here in Japan, I enjoy doing research in cardiovascular fields. My colleague is very helpful. We get along well not only in matters concerning science but also in Japanese life. I found that my life here is very interesting. I enjoy doing research during the week and enjoy doing my hobbies, sports and arts on weekends.

School of Medicine

The Kusunoki Campus-based School of Medicine was re-organized from the Prefectural Technical College of Medicine established in 1944, which subsequently became the Hyogo Prefectural College of Medicine (1946), and the Kobe Prefectural College of Medicine (1952). It provides students with opportunities to acquire basic knowledge, ethics, and techniques of clinical and basic medical practices, and encourages them to be competent, conscientious medical doctors.

Faculty of Health Sciences

The Myodani Campus-based Faculty of Health Sciences was developed from the School of Nursing attached to the Hyogo Prefectural College of Medicine, which was originally established in 1959. The Department has 4 major courses: Nursing, Medical Technology, Physical Therapy and Occupational Therapy.

Graduate School of Medicine

The Graduate School of Medicine aims at promoting advanced and

creative interdisciplinary research and at training future leaders of biomedical sciences, clinical medicine, and medical administration in international society. In other words, it focuses on bringing up specialists who can investigate the cause of medical problems out of complex factors and manage them for the health and welfare of humanity.

The Division of Biomedical Sciences offers an opportunity for students who have majored in various fields other than medicine, dentistry, or veterinary medicine to acquire the basics and applications of genome science and, in the future, to become researchers or teachers who will contribute to the advancement in these fields. It is also expected that the graduates of the program will become leaders in biosciences, environmental studies, medicine, pharmacology, and related fields.

Graduate School of Health Sciences

Health sciences, which deal with issues on human physical and mental health directly, contribute to human well-being and social welfare. The Graduate School of Health Sciences was newly developed in 2008. The main areas which this graduate school covers

are health maintenance; prevention of diseases and physical troubles; treatment of patients; biological science; recovery, maintenance, and promotion of physical and mental health; and substitution for the disabled functions. By completing the program, students will be conferred the master's or doctoral degree in health sciences.

Undergraduate Program

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| Medicine | *Lectures are given by faculty members of the Graduate School. |
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Master's Degree Program (Two-year Program)

| Faculties | Departments* |
|---------------------|--|
| Biomedical Sciences | <ul style="list-style-type: none"> •Physiology and Cell Biology •Biochemistry and Molecular Biology •Pathology •Microbiology and Infectious Diseases •Social Medicine |

*Each Department consists of 4 to 12 Divisions

Doctoral Program (Four-or three-year Program)

| Faculties | Departments* |
|------------------|---|
| Medical Sciences | <ul style="list-style-type: none"> •Physiology and Cell Biology •Biochemistry and Molecular Biology •Pathology •Microbiology and Infectious Diseases •Social Medicine •Internal Medicine •Internal Related •Surgery •Surgery Related |

*Each Department consists of 4 to 12 Divisions

Center for Infectious Diseases (CID)

Through reorganization of the former International Center for Medical Research and Treatment (ICMRT), Kobe University Graduate School of Medicine has established the Center for Infectious Diseases (CID) since April 1, 2009. CID is a comprehensive hub for the research and education of infectious diseases dealing with both basic biomedical science and clinical science at the molecular, cellular, individual and global levels. Infectious diseases being

studied here include viral hepatitis, influenza, herpes virus infection, salmonellosis, etc. CID consists of 5 core research divisions, such as Microbiology, Clinical Virology, Zoonotic Infections, Infectious Disease Pathology and International Infectious Disease Control, and 6 concurrent research divisions, such as Bacteriology, Parasitology, Vaccinology, Infectious Disease Therapeutics (combined clinical

field), Infectious Disease Diagnosis and Pathophysiology (combined clinical field) and Infectious Disease Immunology (combined clinical field). In addition, CID has established an overseas research center in Indonesia, the "Indonesia-Japan Collaborative Research Center for Emerging and Re-emerging Infectious Diseases (CRC-ERID)", where H5N1 avian influenza, viral hepatitis, and dengue fever are being studied.

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