iMeC
WISE

MEXT Doctoral Program for World-learning Innovative & Smart Education

Innovative Medicine CHIBA Doctoral WISE Program

NEWS LETTER

Vol.3

iMeC-WISE program

What is the iMeC-WISE program?

The iMeC-WISE program is characterized by innovative, comprehensive training focusing on close multidisciplinary mentoring by internationally renowned faculty from academia and industry. The program's six specialized fields provide excellent platforms for research and training using a wide range of state-of-the-art technologies in Biomedicine, Medical Engineering, Therapeutics, Drug Discovery, Sustainable Health Sciences, and Medical Informatics. Students must study two of the six specialized fields to acquire highly advanced research abilities and a broader perspective in an international environment.

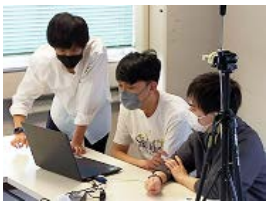
Advanced General Education



Students had lectures by very distinguished professors. They were able to broaden their perspectives by listening to talks in fields different from their majors, and at the same time, they were able to form strong connections with these professors.

Rotation Training of iMeC WISE





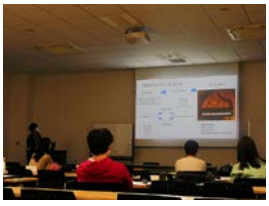
Students visited various laboratories for several days and learned about the experimental techniques unique to each laboratory. They also learned about the research content and were amazed at the variety of research conducted within the same university. This exercise was the beginning of our joint research and the beginning of our decision to pursue a minor in medicine.

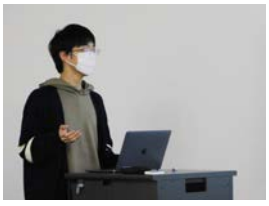
Retreat



The retreat was held offline for the first time this year, and students presented their business plans and research in English.

Practical English





In Practical English, students learned to give presentations and hold discussions using English in a practical format.

Shodai Suzuki

In charge of Advanced General Education

The most attractive aspect of Advanced General Education is the opportunity to hear directly from professors active in research fields other than pharmaceuticals and to absorb a wide range of perspectives. For example, it was a valuable experience for me to have discussions with Dr. Masato Kimura, who is studying Eiichi Shibusawa, a great man whom I respect, and Dr. Ichiro Kishimi, author of "The Courage to Be Disliked," a book that impressed me. In addition to the exciting lectures on research, the professors also talked about their past hardships and how they faced their research, which gave me the courage to do my best not to fall behind.

Yuki Hayashi

In charge of Retreat

This year, while the 7th-8th wave of new coronavirus infections has arrived, lectures are becoming face-to-face from the "with corona" trend; the event was held on-site with Zoom, with research presentations in each area and business plan presentations by each team under the central theme of "Medical Health Business in the Age of AI and Big Data." This meeting was an excellent opportunity to broaden my perspective, as I realized that business and research have similarities and affinities in searching for unknown or needed areas and establishing novelty compared to prior research and industry. I gained new perspectives from discussions with professors from other fields. I want to take this opportunity to express my sincere gratitude to everyone involved and wish for the continued growth of this association.

PhD Holders

In March 2023, two doctoral program members from 1st year students completed their studies.

Moeno Imai

Biochemistry (Pharmaceutical Sciences)

Although it was only for a short period of three years, I was able to experience many things through the iMeC-WISE Program. In particular, I interacted with researchers in various fields through Advanced General Education and sub-majors, which gave me a broad perspective that was not limited to the framework of my major. I also had the valuable experience of visiting the World Health Organization (WHO) during the program, which allowed me to think deeply about the significance of my research and career globally. I am writing to express my sincere gratitude to all those who have been involved in my career through the excellence of this program.

Ryohei Ono

Cardiovascular Medicine (Medicine)

I am a member of the Department of Cardiovascular Medicine and entered the program in 2020 as a first-year student of the iMeC-WISE Program. As a first-year student with no seniors or precedents, I worked hard to participate in program activities and study to build a base for this program. The triple-mentor system allowed me to gain a wide range of knowledge in my research field and through integration with other research fields and interaction among students in the Graduate Student Forum. I want to thank the professors, academic staff, and program directors involved in completing the program.

3rd Year Students

A total of 9 students, 2 in the Master's Program and 7 in the 4-year Doctoral Program.

Kyota Kitagawa

Doctoral Program
Orthopaedic Surgery
(Medicine)

I am trying to predict the neurological prognosis of spinal cord injury and develop evaluation methods.

Susumu Tashiro

Doctoral Program
Innovative Regenerative Medicine
(Medicine)

I am studying the application of iPS cell-derived mesenchymal stem cells for immortalization and bone regeneration.

Kenta Hagiwara

Doctoral Program
Molecular Cardiovascular Pharmacology
(Pharmaceutical Sciences)

I am investigating gene expression and its regulatory factors in macrophages during aging.

Iori Kojima

Doctoral Program
Neurological Surgery
(Medicine)

I am conducting research on the treatment of gliomas by recovery from stem cell traits.

Shion Nagasawa

Doctoral Program
Systems Medicine
(Medicine)

I am exploring the mechanisms of the development of cardiovascular and metabolic diseases in the growing environment.

Izumi Tanaka

Master's Program
Innovative Medicine
(Medicine)

I am investigating cell-cell interactions in the muscularis propria, particularly intestinal mesenchymal cells, and their involvement in chronic disease.

Yuki Taki

Doctoral Program
Molecular Diagnosis
(Medicine)

I am trying to elucidate the pathogenesis of adrenal diseases using single cell RNA-seq.

Hyeree Kim

Doctoral Program
Molecular Cardiovascular Pharmacology
(Pharmaceutical Sciences)

I am researching that mental stress alter cardiac homeostasis by modulating the hematoimmune system.

Kanae Oishi

Master's Program
Microbiology and Immunology
(Pharmaceutical Sciences)

I am analyzing regulatory T cell surface glycan antigens.

Student's Achievement

Mr. Katsuyuki Chida received the Excellence Award at the "Forum for Graduate School Educational Reform" student workshop on December 17, 2022. Mr. Chida was in charge of planning and chairing the Advanced General Education in 2022.

Katuyuki Chida

Pharmaceutics
(Pharmaceutical Sciences)

We created and presented a bulletin board to share our research findings with the needs of clinical practice. I thought of this presentation for two reasons: first, our team consists of basic plasma research, pharmacology, which connects basic and clinical research, and nurses who are active in clinical practice, and I wanted to contribute to the connection between basic and clinical research through our discussions.
Second, I learned about the results of various research in different fields in the iMeC-WISE Program and thought that the study's results that had not previously been related to clinical practice could be applied to clinical practice.
This activity was a good experience for me to create new value through team discussions. This experience can be applied to various things, such as research and entrepreneurship.

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