

Innovative Medicine CHIBA Doctoral WISE Program

MEXT Doctoral Program for
World-leading Innovative & Smart Education

Vol.6

NEWS LETTER

iMeC

WISE

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This program ...

aims to nurture outstanding “knowledge professionals” responsible for creating innovative medicine. It is a new six-year graduate education program combining master’s programs with a four-year doctoral program in advanced medical and pharmaceutical sciences. As innovators in medical advancement, this program cultivates students’ advanced expertise, broad perspective, originality, and spirit of challenge through the cluster-based CHIBA educational system and a specialized curriculum designed beyond existing frameworks to create new medical knowledge and contribute to social implementation.

Advanced General Education



Prominent professors from various research fields are invited to give lectures, providing students with a valuable opportunities to broaden their perspectives.

Rotation Training



By visiting several laboratories over a few days, students gain exposure to cutting-edge techniques and insights that can unexpectedly benefit their own research.

Retreat



Each group presents its business plan in English, following a talk by a real entrepreneur.

Practical English



Students can develop their presentation and communication skills by presenting their own research in English.

Forum for Graduate School Educational Reform 2025



Excellence Award recipients:
Daisuke Muto (left)
Tohgo Kanoh (right)

The forum, held under the theme ‘The Potential of Doctoral Students and the Future of Society’, featured lectures and discussions on doctoral career development, as well as a group presentation program in which more than 100 students participated. Through these activities, participants explored from multiple perspectives how learning in doctoral programs can connect to society and its future. On the final day, in the group presentation program, students from our program were selected for the Excellence Award and the Special Award based on audience votes.

6th year students

Doctoral Program



Nadire Aximu

- ① Cognitive Behavioral Physiology
- ② Diffusion tensor imaging (DTI) studies in patients with Generalized Anxiety Disorder and Social Anxiety Disorder
- ③ Walking my dog, reading history-related books, etc.
- ④ Ever tried. Ever failed. No matter. Try again. Fail again. Fail better.

- ① Laboratory
- ② Research Theme
- ③ Hobbies
- ④ Motto
(Guiding principle)



Fujiang Zhao

- ① Medical Mycology Research Center, Division of Molecular Biology
- ② The immune evasion mechanism of pathogenic fungi
- ③ Enjoying films while lying comfortably
- ④ Be yourself; everyone else is already taken



Genki Ohno

- ① Systems Medicine
- ② Investigating the molecular basis of stress memory imprinting in cardiac resident macrophages
- ③ Cycling
- ④ Hab' ein Lied auf den Lippen
(Keep a song on your lips.)



Yan Zhang

- ① Artificial Intelligence Medicine
- ② Development of a Framework for Disease and Health Status Assessment Using Multimodal Biosignals
- ③ Reading, Badminton
- ④ Every cloud has a silver lining.



Ruichen Ma

- ① Experimental Immunology
- ② Mechanistic study of anti-tumor immune responses, aiming to elucidate how developmental origin and immune microenvironment regulate T-cell differentiation, activation, and fate determination across diverse T-cell subsets
- ③ Photography, exploring cafés, and travelling
- ④ Stay curious and keep going.



Kaiyuan Xu

- ① Gastroenterology
- ② Development of a targeted drug delivery system to activated hepatic stellate cells for the treatment of liver fibrosis
- ③ Listening to music, traveling, skiing
- ④ Keep going, and you will arrive.



Yunpeng Yang

- ① Medical physiology
- ② Diabetes, obesity, and endocrine diseases
- ③ Fitness, hiking, and camping
- ④ Everything will be okay.

Master's Program



Yuma Mihara

- ① Pharmaceutical Chemistry
- ② Development of the diastereoselective cross-pinacol coupling reaction of 2-pyridyl ketones
- ③ Going to a nightclub
- ④ Ask, and it shall be given you.



Tomoki Miyata

- ① Biochemistry
- ② Characterization of Insulin Dynamics in High-Fat Diet-Induced Overfed Zebrafish and Establishment of a Novel Glucose Intolerance Model via uox Knockout Zebrafish
- ③ Metal music, plastic model building
- ④ Great talents take time to bloom.

PhD Graduates

Kaori Tsuji (Developmental Immunology)



I was enrolled in the WISE Program from my master's through doctoral studies for six years, during which I gained many invaluable experiences. Through interdisciplinary interaction in the iMeC-WISE Rotation Training and Advanced General Education program, I deepened my specialization while gaining a broader perspective and greater intellectual flexibility. I will carry forward the experience and connections I developed through this program into the next stage of my career. I would like to express my sincere gratitude to the faculty members and program staff for their guidance and continuous support.

Daichi Komiyama (Molecular Oncology)



Through the WISE Program, I gained interdisciplinary knowledge and valuable professional networks, which enabled me to approach research from multiple perspectives. I sincerely appreciate the guidance of the faculty members, the program coordinators, and all those who provided continuous support throughout my time in the program.

Kyota Kitagawa (Orthopedic Surgery)



During my graduate studies, it became a valuable experience to translate clinical questions into data-driven research, validate them rigorously, and ultimately bring the findings back to patient care. Advice from faculty members across different fields and discussions with colleagues broadened my perspective and helped refine both my research approach and scientific communication. I am sincerely grateful to all mentors and staff members who supported my work. Going forward, I will continue learning and aim to contribute to advances in spinal cord injury care through both clinical practice and research.

Kaho Yamasaki (Nephrology)



Thanks to the iMeC-WISE program, innovation-focused courses exposed me to cutting-edge research and entrepreneurship beyond my field, providing strong motivation for my research. I am deeply grateful to all the mentors who guided me throughout my study.

Yuki Taki (Molecular Pathophysiology)



I would like to take this opportunity to express my gratitude for the support provided to my research activities through this program. Over the past four years, I have worked to elucidate the pathogenesis of adrenal tumors using cutting-edge technologies such as single-cell and spatial transcriptomics analysis. I want to utilize the experience gained during my doctoral studies in the future.

Iori Kojima (Neurosurgery)



Through the WISE Program, I gained valuable opportunities to access a wide range of academic fields beyond my own specialty. Interacting with researchers from diverse backgrounds was highly stimulating and broadened my research perspective. I believe this program plays an important role in fostering interdisciplinary collaboration.

Shion Nagasawa (Disease Systems Medicine)



I am deeply grateful for the tremendous support I received during my four years in the iMeC-WISE program. Particularly in the Advanced General Education, it allowed me to interact with professors from other universities, providing valuable inspiration. I am also delighted to have the opportunity to socialize with my peers in the program.

Susumu Tashiro (Innovative Regenerative Medicine)



Through courses such as WISE Liberal Arts, I had the opportunity to explore diverse fields beyond medicine, including nuclear science, space engineering, semiconductor materials engineering, and behavioral economics. These experiences broadened my intellectual foundation. I hope to apply what I have learned not only to research but also to clinical practice and other fields. I sincerely thank all the faculty and staff for their support.

Yasuomi Miyashita (Developmental and Regenerative Medicine)



Through this program, I learned the importance of diverse perspectives through interdisciplinary interactions. I hope to apply an awareness of the background and societal significance of research to my future work. I sincerely thank the faculty members and all those involved for their guidance and support.

Tohgo Kanoh (Biochemistry)



The curriculum of iMeC-WISE proved to be ideal for achieving my goal of becoming an "active researcher." The experiences of collaborative research opportunities and friends I met from different fields are my greatest treasures. Finally, I am deeply grateful to all those who have supported me.



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UNIVERSITY

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