Master’s program

AY 2027 Entrance Examination Guideline for the Application Guide for School of Medical Science

Graduate School of Medicine,

The University of Tokyo

[Admissions Guide Attachment 1]

Entrance Exam Procedures for the 2027 Master's Program of Medical Science

In addition to the current admission criteria introduced in the 2027 entrance exam, the admission policy of the Master's Program of Medical Science allows applicants to specify their desired research supervisor when applying.

In accordance with this admission policy, the 2027 entrance exam will be conducted based on the following procedures. Therefore, please familiarize yourself with these procedures prior to submitting your application.

1. Prospective Research Supervisor

(1) Prior to taking the entrance exam, you have the option of specifying your desired research supervisor. Regardless of whether or not you exercise this option, you are encouraged to visit as many of the research laboratories in which you are interested as possible.
The entrance exam will be conducted in an impartial manner, regardless of whether or not you have specified a research supervisor.

(2) You can specify your desired research supervisor from the Graduate School of Medicine faculty (as per the List of Research Supervisors) prior to taking the entrance exam. Each research supervisor can accept about two students, as described on the List of Research Supervisors. If you would like to specify your research supervisor, please contact the said supervisor before submitting your application to confirm that his/her research field and teaching policy agrees with your own research goals. If your desired research supervisor agrees to supervise you, please obtain his/her signature in the designated column on the attached 'Confirmation of Research Supervisor's Acceptance' and submit it as part of your application materials, check “Yes” in the “Preferred Laboratory” section of the application form, and indicate the academic field and the name of the desired supervisor.
You may also specify your desired research supervisor from the so-called “collaborating departments,” namely the Institute of Medical Science and the Institute of Quantitative Bioscience. However, each institute has an application-stage quota of two across all laboratories within the institute. If the number of applicants exceeds this quota, you may not be able to designate your preferred prospective supervisor. As the quota is managed at the institute level, applicants must contact both their prospective supervisor and the liaison faculty member listed below. The signature of the liaison faculty member is required in the "Name of Confirming Faculty Member" section of this form.

- IMS: Professor Takashi Okada (t-okada@ims.u-tokyo.ac.jp)
- IQB: Professor Taku Okazaki (tokazaki@iqb.u-tokyo.ac.jp)

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(3) If you would prefer not to specify your research supervisor, tick the 'NO' box beside the 'Desired research laboratory' entry on the Application Form. Even if you intend to take the entrance exam without specifying a research supervisor, please contact the faculty member that you would like to receive research supervision from before submitting your application if he/she is available.

(4) The Graduate School of Medicine will host an 'Admissions Guidance for the Master's Program of Medical Science on Saturday, 16 May, 2026 to allow interested applicants to meet their desired research supervisors before submitting their application, and participation is strongly encouraged.
Refer to the Master of Medical Science's website for details:
https://www.m.u-tokyo.ac.jp/mms/guidance.html

(5) As a general rule, applicants who specify their desired research supervisor and subsequently pass the entrance exam are not allowed to change their research supervisor following enrollment.

(6) Successful applicants who have not specified a research supervisor are required to select a research supervisor after undergoing rotation following enrollment. In this case, however, it may not be possible to satisfy a research supervisor preference after enrollment if the quota has already been filled.

(7) As a general rule, students of Department of Medical Science aren't allowed to outsource their research instruction to other laboratories, etc., whether on or off campus.

2. Statement of Reasons for Desired Major
Please submit, along with application documents, "Statement of Reasons for Desired Major" which describes the reasons for selecting your desired major in two A4 pages without stapling, and write 'Statement of Reasons for Desired Major' along with your name and page number at the top left of each page.

3. Entrance Exam
Please see the relevant parts on Japanese Version.

[Admissions Guide Attachment 2]

Notice to 2027 Master's Program of Medical Science Entrance Examinees

The first three months of the Master's Program of Medical Science consists of lectures and practical training in basic medical sciences (Note ①), after which students begin their research under the guidance of the research supervisors. While students complete this program by summarizing the results of their research in a master's thesis, it is anticipated that students will continue on to the doctoral program.

Students who specified their preferred research supervisor before admission can commence their research under said supervisor while taking the above-mentioned lectures and practical work on basic medical sciences. On the other hand, students who did not specify their preferred research supervisor before admission shall select their supervisor after first undergoing research rotation (Note ②).

The entire process from admission to completion of the master's program is outlined below for your reference.

Process from admission to completion:

1st year	
1 April	Admission to the Master's Program of Medical Science
Early April	Admissions guidance
- Late June	Summer semester classes (lectures, practical work etc.)
- Late July	Rotation (students who have not yet decided on their preferred research supervisors visit various labs)
Late August	Students who have not yet selected a research supervisor make a decision.
1 October -	Assignment to research laboratory (exercises, practical work)
2nd year	
April - Early February	Assignment to research laboratory (exercises, practical work, hospital Internship (only applicant))
July	Application for Doctoral Program of Medicine
Mid-October	Entrance Examination for Doctoral Program of Medicine (Students who are expected to complete the Graduate School of Medicine's Master's Degree in Medical Science program are exempt from the written exam.)
Early February	Presentation of master's thesis
March	Completion of Master's Program of Medical Science
April	Admission to the Doctoral Program in Medicine

Note ①: Coursework consists of lectures and practical training on basic medicine as well as a hospital internship (only applicant). The lectures and practical training are conducted by the Basic Medicine Research Laboratory, which teaches basic medical knowledge. The hospital internship is approximately two weeks long, during which time the students divide into several teams and attend the University of Tokyo Hospital to experience the importance of medicine in an actual clinical setting.

Note ②: 'Rotation' refers to the period in which students who did not specify their preferred research supervisor prior to admission, visit the research laboratories in which they have developed an interest through the coursework described in ① above to experience the atmosphere of the laboratory and confirm the type of research conducted and guidance provided. Meanwhile, students who already specified their preferred research supervisor prior to admission commence their research under the guidance of the research supervisor.

Note ③: Lectures and practical work's content may change.

Note ④: Hospital Internship applicant must obtain antibody test before the internship. Details will be explained in the guidance for enrollees.

【2027 年度入試受験者用】 ※Please use this format.

医科学専攻修士課程

指　導　教　員　受　入　確　認　票/Confirmation of Research Supervisor's Acceptance

研究室名　Lab's name	訪問日 Date of visit to the lab year　month　day 2026 年　月　日（　）
受験者氏名（自筆） Applicant's name (Signature)	（生年月日 Date of birth：　/　/　）
学歴 Educational background	高校卒業から記入してください。Start from graduation of high school (Date: yyyy/mm/dd) /　/　高等学校卒業
研究歴 Research history	
研究上の特記事項 Special remarks about research (if any)	
研究したい研究内容及び希望する指導教員 Content of research you plan to conduct and your prospective supervisor's name	〔研究内容 Content〕 〔希望指導教員 Prospective supervisor〕
上記受験者が、2027 年度東京大学大学院医学系研究科医科学修士課程入学試験に合格した場合は、**受入可能な枠の範囲内であることを確認の上、**受入を認めます。 受入確認教員氏名/Professor's signature：＿＿＿＿＿＿＿＿＿＿＿＿	

注 **【受験生の方へ】以下をご確認のうえ、□に✔願います。**Confirm the following items and tick the boxes.

□ 研究室訪問時に、希望指導教員から受入内諾を得た場合、本票を希望指導教員に渡してください。
Please submit this form to prospective supervisor if he/she agrees to supervise you.

□ **医科学研究所（医科研）または定量生命科学研究所（定量研）の教員を指導教員として指名しようとする方へ：** 各研究所の指導教員指名枠は、研究所全体で**２名**です。希望者がこの枠を上回った場合、希望どおりの指導教員を指名できないことがあります。
指名枠は研究所単位で管理するため、出願にあたっては希望する指導教員に加え、下記の担当教員にも必ず連絡してください。受入確認教員氏名欄には担当教員の署名が必要です。
医科研：岡田尚巳 教授（t-okada@ims.u-tokyo.ac.jp）
定量研：岡崎拓 教授（tokazaki@iqb.u-tokyo.ac.jp）
Applicants wishing to designate a faculty member at the Institute of Medical Science (IMS) or the Institute for Quantitative Biosciences (IQB) as their prospective supervisor: Each institute has an application-stage quota of **two** across all laboratories within the institute. If the number of applicants exceeds this quota, you may not be able to designate your preferred prospective supervisor.
As the quota is managed at the institute level, applicants must contact both their prospective supervisor and the liaison faculty member listed below. The signature of the liaison faculty member is required in the "Name of Confirming Faculty Member" section of this form.

- IMS: Professor Takashi Okada (t-okada@ims.u-tokyo.ac.jp)　　※Please use this format.
- IQB: Professor Taku Okazaki (tokazaki@iqb.u-tokyo.ac.jp)

☐ 本票を提出した受験者は、入学後は原則として指導教員の変更は認められません。
As a general rule, those submitting this form are not allowed to change their research supervisor after enrollment.

【指導教員の先生へ】以下をご確認のうえ、□に✔願います。

☐ 受入を承諾した教員は、正本を受験者に渡し、控えとしてコピーを１部取ってください。

☐ 受入確認教員が本確認票にサインをできるのは２名以内とします。また、一年度内に受け入れることができる医科学修士の学生数は２名までですのでご留意ください。

☐ **医科学研究所（医科研）および定量生命科学研究所（定量研）の先生へ：**
各研究所の枠が２名ですので、事前に各研究所の担当教員(下記)にご連絡頂き、人数の確認調整を行ってください。受入確認教員欄は担当教員の署名となります。
医科研：岡田尚巳 教授（t-okada@ims.u-tokyo.ac.jp）
定量研：岡崎拓 教授（tokazaki@iqb.u-tokyo.ac.jp）

Academic Year 2027

※This English version is a courtesy translation.

Graduate School of Medicine, The University of Tokyo
Master's Program of Medical Science
List of Research Supervisors (as of April, 2026)

Molecular Cell Biology

Major Field of Study	Faculty	Research Fields	Affiliation (Department)
Cell Biology	Professor Yasushi Okada e-mail: yokada@m.u-tokyo.ac.jp tel: 03-5841-0959	Physical biology of the cell, Live cell imaging, Single-molecule measurement	Cell Biology and Anatomy
Structural Biology	Professor Masahide Kikkawa e-mail: mkikkawa@m.u-tokyo.ac.jp tel: 03-5841-3338	Cell biology of epithelium using cryo-electron tomography	Cell Biology and Anatomy
Advanced Structural Studies	Professor Radostin Danev e-mail: rado@m.u-tokyo.ac.jp tel: 03-5841-3413	Structural biology of molecules and cells by cryo-electron microscopy	Advanced Structural Studies
Molecular Biology	Professor Noboru Mizushima e-mail: nmizu@m.u-tokyo.ac.jp tel: 03-5841-3440	Molecular mechanisms and physiological roles of autophagy	Biochemistry and Molecular Biology
Physiological Chemistry and Metabolism	Professor Makoto Murakami e-mail: makmurak@m.u-tokyo.ac.jp tel: 03-5841-1431	Biology of lipid metabolism in health science	Biochemistry and Molecular Biology
Genome Informatics	Professor Yukinori Okada e-mail: yuki-okada@m.u-tokyo.ac.jp tel: 03-5841-1860	large-scale genomics, statistical genetics, bioinformatics	Biochemistry and Molecular Biology
Molecular Biomedicine for Pathogenesis			

Functional Biology

Major Field of Study	Faculty	Research Fields	Affiliation (Department)
Integrative Physiology	Professor Kenichi Ohki e-mail: kohki@m.u-tokyo.ac.jp tel:03-5841-3459	Neural circuits and information processing in visual cortex, two-photon calcium imaging	Physiology
Cellular and Molecular Physiology	Professor Masanori Matsuzaki e-mail: mazkim@m.u-tokyo.ac.jp tel:03-5841-3467	Prefrontal cortex, decision making, motor learning, BMI	Physiology
Neurophysiology			
Cellular and Molecular Pharmacology	Professor Kenzo Hirose e-mail: kenzoh@m.u-tokyo.ac.jp tel: 03-5841-3414	Principles of neuronal functions, cell physiology, pharmacology, chemical biology	Pharmacology
Systems Pharmacology	Professor Hiroki R. Ueda e-mail: uedah-tky@umin.ac.jp tel: 03-5841-3415	Systems and synthetic biology of sleep-wake cycles	Pharmacology
Structural Physiology			

Pathology, Immunology and Microbiology

Major Field of Study	Faculty	Research Fields	Affiliation (Department)
Pathology and Diagnostic Pathology	Professor Tetsuo Ushiku e-mail: usikut-tky@umin.ac.jp tel:03-5841-3344	Gastrointestinal pathology, diagnostic pathology	Pathology
	Professor Tappei Takada e-mail: tappei-tky@g.ecc.u-tokyo.ac.jp tel:03-3815-5411（ex.30750）	Clinical Pharmacology, Clinical Pharmacokinetics, Lifestyle-related Diseases and Transporters	Pharmaceutical
	Associate Professor Daizo Koinuma e-mail:koinuma@m.u-tokyo.ac.jp tel:03-5841-3359	Research on signal transduction mechanism. Transcriptome analysis.	Pathology
Molecular Pathology	Professor Yasuhiro Yamada email:yyamada@m.u-tokyo.ac.jp tel:03-5841-3585	Dissecting epigenetic regulation in mammalian development and diseases	Pathology
	Associate Professor Yosuke Yamada email:yoyamada@m.u-tokyo.ac.jp tel:03-5841-3411	Thymic pathology, Experimental pathology	Pathology
Microbiology	Professor Makoto Takeda email:mtakeda@m.u-tokyo.ac.jp tel:03-5841-3408	Pathogenicity of respiratory viruses	Microbiology
	Associate Professor Hiroshi Kato email:hirokato@m.u-tokyo.ac.jp tel:03-5841-3404	Host-virus interaction in paramyxovirus infection	Microbiology
Infection Control and Prevention	Professor Takeya Tsutsumi email:takeyatsutsumi@g.ecc.u-tokyo.ac.jp tel:03-3815-5411（ex.35335）	Molecular mechanism of pathogenesis in hepatitis virus infection	Microbiology
Immunology	Professor Hiroshi Takayanagi e-mail: takayana@m.u-tokyo.ac.jp tel: 03-5841-3375	Research on pathogenesis of autoimmune diseases and osteoimmunology	Immunology
Animal Resources	Professor Atsu Aiba e-mail: aiba@m.u-tokyo.ac.jp tel: 03-5841-3638	Molecular mechanisms underlying neuronal development,Generation of mutant marmosets as model animals with psychiatric disorder.	CDBIM – Animal Resources

Radiology and Biomedical Engineering

Major Field of Study	Faculty	Research Fields	Affiliation (Department)
Molecular Radiology	Associate Professor Noriko Hosoya e-mail: nhosoya@m.u-tokyo.ac.jp tei: 03-5841-3505	Research on cancer treatment targeting DNA repair	CDBIM – Molecular Radiology
System Physiology	Associate Professor Kimiko Yamamoto e-mail: kyamamoto@m.u-tokyo.ac.jp tel: 03-5841-3564	Mechanobiology, biomechanics, circulatory physiology	Biomedical Engineering
Biosystem Construction and Control			
Chemical Biology and Molecular Imaging	Professor Yasuteru Urano e-mail: uranokun@m.u-tokyo.ac.jp tel: 03-5841-3601	Chemical biology (fluorescence-, sensitizer-, and luminescence-based probes) Molecular imaging, In vivo tumor imaging and therapy	Graduate School of Pharmaceutical Sciences
	Associate Professor Ryosuke Kojima e-mail: kojima@m.u-tokyo.ac.jp tel: 03-5841-3568	Synthetic biology (engineering cells and extracellular vesicles), Chemical Biology (fluorescence probes), protein engineering, cancer imaging and therapy	Biomedical Engineering
Biomaterials and Medical devices	Professor Kanako Harada e-mail: kanakoharada@g.ecc.u-tokyo.ac.jp tel: 03-5841-6289	Biomedical devices, Surgical robots, Surgical skill assessment	CDBIM – Biomedical devices

Neuroscience

Neuropathology	Professor Takashi Saito e-mail: tsaito@m.u-tokyo.ac.jp tel: 03-5841-3543	Elucidation of cellular and molecular mechanisimas underlying pathogenesis of dementia and neurodegererative disorders	Basic Neuroscience
Neurochemistry	Professor Haruhiko Bito e-mail: hbito@m.u-tokyo.ac.jp tel: 03-5841-3559	Molecular mechanisms underlying long-term memory storage and plasticity, signal transduction of neurons	Basic Neuroscience
Child Neuropsychiatry	Professor Koike Shinsuke e-mail: c-koike@g.ecc.u-tokyo.ac.jp tel: 03-5800-8664	Neuroimaging, Human brain pathology in psychiatric disorders, Adolescent development	Integrative Medical Neuroscience

Social Medicine

Major Field of Study	Faculty	Research Fields	Affiliation (Department)
Preventive Medicine	Professor Shumpei Ishikawa e-mail: ishum-prm@m.u-tokyo.ac.jp tel: 03-5841-3434	Cancer genomics, bioinformatics	Occupational, Environmental and Preventive Medicine
Microenvironmental and Metabolic Health Sciences	Professor Makoto Murakami e-mail: makmurak@m.u-tokyo.ac.jp tel: 03-5841-1431	Biology of lipid metabolism in health science	CDBIM – Microenvironmental and Metabolic Health Sciences
Clinical Information Engineering	Associate Professor Takeshi Imai e-mail:imai@m.u-tokyo.ac.jp tel: 03-5841-3454	Medical AI, Medical bigdata analysis, Next-generation EHR, Standardization	CDBIM – Biomedical Informatics
Medical Infomatics	Professor Yoshimasa Kawazoe e-mail: kawazoe@m.u-tokyo.ac.jp tel: 03-5800-8685	Medical Information Systems, Medical Data Analysis, AI in Medicine, NLP in Medicine	Department of Biomedical Informatics

Other Major Field

Major Field of Study	Faculty	Research Fields	Discipline
CDBIM: Center for Disease Biology and Integrative Medicine	Professor Yuichi Tei/ Ung-il Chung e-mail: tei@tetrapod.t.u-tokyo.ac.jp tel: 03-5841-8843	Skeletal biology and regenerative medicine, biomaterials science	Graduate School of Engineering

CDBIM: Center for Disease Biology and Integrative Medicine

The contents may be updated. Please refer to our website

http://www.m.u-tokyo.ac.jp/daigakuin/apply/appguidemain.html

for the latest version.

Cooperative Departments (Institute of Medical Science, Institute for Quantitative Biosciences)

Applicants wishing to designate a faculty member at the Institute of Medical Science (IMS) or the Institute for Quantitative Biosciences (IQB) as their prospective supervisor must contact not only their desired supervisor but also the liaison faculty member. The signature of the liaison faculty member is required in the "Name of Confirming Faculty Member" section of the form "Confirmation of Research Supervisor's Acceptance**"**.

【The Institute of Medical Science (IMS)】
The liaison faculty member: Professor Takashi Okada (t-okada@ims.u-tokyo.ac.jp)

Major Field of Study	Faculty		Research Fields	Affiliation (Department)
Molecular Biology	Professor	Takashi Okada	Gene and cell therapy for neuromuscular disorders	IMSUT – Molecular and Medical Genetics
Molecular Pathology	Professor	Yoichi Furukawa	Elucidation of cancer development and progression mechanisms, genome analysis	IMSUT – The Advanced Clinical Research Center
	Professor	Yuji Yamanashi	Intracellular signal transduction mechanism and molecular pathogenesis of disease caused by its collapse	IMSUT – Genetics
	Professor	Tatsuhiro Shibata	Genomic understanding of human disease	IMSUT-The Human Genome Center
	Professor	Mutsuhiro Takekawa	Regulatory mechanisms of cellular signaling pathways and their abnormalities in diseases	IMSUT－Cell Signaling & Molecular Medicine
	Professor	Tomoji Mashimo	Genome editing, humanized animals, and gene therapy	IMSUT－Laboratory Animal Research Center
	Professor	Emi Nishimura	Stem cell aging study for tissue regeneration	IMSUT－Aging and Regeneration
	Professor	Satoshi Yamazaki	Application of stem cell regulation research to cell therapy and gene therapy	IMSUT－Cell Regulation
	Associate Professor	Akane Yamauchi	Cellular signal transduction mechanism and its dysregulation in diseases	IMSUT－Genetics
	Associate Professor	Taeko Kobayashi	Adult neural stem cells and their quiescence regulation by proteostasis	IMSUT－Protein Metabolism
Surgical pathology	Professor	Hideki Taniguchi	Regenerative medicine and transplantation surgery	IMSUT – Regenerative Medicine
Microbiology	Associate Professor	Takeshi Ichinohe	Regulation of immune responses to influenza virus infection	IMSUT－International Research Center for Infectious Diseases
Infection Control and Prevention	Professor	Yasushi Kawaguchi	Research on mechanisms involved in the development of herpesviral pathogenicity	IMSUT – Molecular Virology
	Professor	Kei Sato	Systems virology and experimental virology	IMSUT – Systems Virology
Immunology	Professor	Atsushi Iwama	Epigenetics of hematopoietic stem cells and hematopoietic malignancies	IMSUT –Division of Stem Cell and Molecular Medicine
	Professor	Ken Ishii	Basic and clinical studies of vaccine	IMSUT – Vaccine Science
	Professor	Cevayir Coban	Host-pathogen interactions	IMSUT – Division of Malaria Immunology
	Professor	Koji HASE	Gut microbiota-driven immunomodulation and disease control	IMSUT –Commensal Biology
	Associate Professor	Tokiko Nagamura-Inoue	Immunology and regenerative medicine of cord blood and cord-derived cells	IMSUT – Department of Cell Processing and Transfusion

【The Institute for Quantitative Biosciences (IQB)】
The liaison faculty member: Professor Taku Okazaki (tokazaki@iqb.u-tokyo.ac.jp)

Major Field of Study	Faculty		Research Fields	Affiliation (Department)
Structural Biology	Associate Professor	Naoki Horikoshi	Epigenetics, Mechanism of Higher-Order Chromatin Structure	IQB－Chromatin Structure and Function
Cellular Neurobiology	Professor	Teruhiro Okuyama	Social neuroscience, Autism spectrum disorder (ASD)	IQB – Research Center for Cellular Dynamics
Genome Informatics	Professor	Katsuhiko Shirohige	Genome Structure and Function	IQB – Laboratory of Genome Structure and Function
	Associate Professor	Ryuichiro Nakato	Data-driven NGS analysis, detailed analysis of 3D structural data, Single-cell analysis	IQB－Computational Genomics
Molecular Pathology	Professor	Hirohide Saito	Synthetic biology, Bioengineering, RNA, RNA-Protein complexes, iPS cells, Cell Regulation, Gene & cell therapy, Regenrative medicine	IQB - RNP Synthetic Biology and Biotechnology
Immunology	Professor	Reiko Shinkura	Interaction of mucosal IgA and gut microbiota, Mechanism of immunoglobulin diversification	IQB – Immunology and Infection Control
	Professor	Taku Okazaki	Molecular and cellular biology of autoimmunity and cancer immunity	IQB – Molecular Immunology
	Associate Professor	Il-mi Okazaki	Molecular and cellular biology of autoimmunity and cancer immunity	IQB – Molecular Immunology

IMSUT: The Institute of Medical Science　　IQB: Institute for Quantitative Biosciences

The contents may be updated. Please refer to our website
https://www.m.u-tokyo.ac.jp/english/daigakuin/apply/appguidemain.html
for the latest version.