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## **FY2017 Application guideline for Graduation Program for Leaders in Life Innovation**

### **【Program outline】**

In the world of low birthrate and longevity, life innovation in both basic and application that helps realize advanced medical system is and will be a key issue of the human society. Life innovation involves multiple factors in a sophisticated way, making it extremely difficult to be achieved by a single discipline and requiring collaboration and integration of multiple disciplines. Therefore, to realize life innovation, it is necessary to produce leaders who have a solid basis on his/her specialty and simultaneously have broad perspectives, communication skills and deep insight to integrate results and human resources from related multiple disciplines. The followings are the human resources to be developed.

### **【Human resources to be developed】**

#### **■ High degree of specialty and systematic broad knowledge**

Combination of firm scientific and technological backbone of his/her own specialty with broad perspectives on the whole.

#### **■ Language skills (including English) and communication skills**

Power to convince other people to move toward the common goals

#### **■ Insight required for leaders (Originality · foresight, leadership, sense of morality)**

Power to attract, to gain trust from and to integrate other people

### **【Requirements for enrolling in the GPLLI course】**

To join the GPLLI course, you must be a graduate student belonging to either Master's program or a prospective student for 4-year Doctoral program of the following departments:

#### **■ Graduate School of Medicine**

Molecular Cell Biology · Functional Biology · Pathology, Immunology and Microbiology · Radiology and Biomedical Engineering · Neuroscience · Social Medicine · Internal Medicine · Surgical Sciences · Reproductive, Developmental and Aging Sciences

#### **■ Graduate School of Engineering**

Bioengineering · Materials Engineering · Chemistry and Biotechnology · Chemical System Engineering · Applied Chemistry · Electrical Engineering and Information

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Systems • Mechanical Engineering • Precision Engineering • Nuclear Engineering and Management • Applied Physics

■ Graduate School of Pharmaceutical Sciences

Pharmaceutical Sciences

Pharmacy

■ Graduate School of Science

Biological Sciences

It is also necessary that you fulfill all of the requirements listed below:

1. You aim to acquire a PhD degree in the basic or applied field contributing to advanced medical development system.
2. You are interested in the relationship of science with society and industry, and eager to actively learn about it.
3. You aim to be one of the leaders in life innovation.
4. You fully understand the purpose of the GPLLI program, as well as its rules, such as course requirements.
5. You intend to enroll in the Doctoral program or 4-year Doctoral program at one of the above-listed departments.\*
6. You agree to apply for DC in the JSPS Research Fellowship for Young Scientists, and if you get accepted, you continue to stay in the GPLLI course.
7. You understand and agree to the fact that your PhD diploma will include an addendum saying that you have completed the GLPPS course.

\*You may not enroll in the GPLLI course if you are planning to find business employment when you finish your Master's program.

Number of places on selection: 35 to 40 students (scheduled)

Number of places after screening of candidates: 35 to 40 students (scheduled)

**【Features of the GPLLI course】**

■ The plural supervision system

To each student in the course is assigned a secondary supervisor from different disciplines, in addition to their main supervisor. Only GPLLI instructors or any person equivalent to him/her can take on the role of the secondary supervisor.

■ Financial support for GPLLI students

GPLLI students receive a monthly grant of 80,000 yen, beginning of their second year in the Master's program 【beginning of their first year in the Doctoral program in

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Medicine/the Doctoral program in Pharmacy (4-year course)】 , and receive a monthly grant of 180,000 yen (amount to be decided), beginning of their first year in the Doctoral program 【beginning of their second year in the Doctoral program in Medicine/the Doctoral program in Pharmacy (4-year course)】 .

The GPLLI program ends in fiscal year 2017, but the issue of continued economic support from FY2018 until the end of the degree program was decided to be addressed at the University level.

Please see the following Reference. Note: this is a translation of the original message in Japanese 「博士課程教育リーディングプログラムのもとで設置した大学院学位プログラムの補助事業終了後の継続に関する考え方」

Reference: Excerpt from the notification by the president of the University of Tokyo "About the continuation of the graduate school degree program based on the Program for Leading Graduate Schools after termination of the government subsidy program."

The issue of economic support for students to continue in the degree program provided by the Program for Leading Graduate Schools, shall be addressed at the University level.

To be specific, we would like to continue economic support for students enrolled in the degree program during the term of the government subsidy program, after termination of the government subsidy program, to enable them to concentrate in research and learning without economic concerns until completion of the degree program.

In this context, although the content of the budget allocation is not determined, we would like to actively utilize the TAKUETSU graduate school program by MEXT expected to start in FY2018 as a new supporting program for graduate school education.

The size of the economic support to students shall be determined based on the result of the interim appraisal of the individual Programs, and the content of the individual programs newly designed as the International TAKUETSU graduate schools.

#### ■ Requirements for completing the GPLLI course

- Coursework requirements

All GPLLI students are required to obtain 2 credits for Life Innovation Leadership Development and 2 credits for Multidisciplinary Lecture Series on Life Innovation in the first year of the course.

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- Required exercise

All GPLLI students are required to make a presentation on Life Innovation Presentation Exercise in the first year of the course.

- Required internships

Student must take part in at least one of the Life Innovation On-campus Internships (including hospital training) designed by GPPLI prior to the thesis defense to earn 2 credits.

Student must take part in at least one of the Life Innovation Off-campus Internships designated by the GPLLI listed below prior to the thesis defense to earn 2 credits:

Academia: Internship at major education and research centers at home and abroad

Industry: Corporate internship actively using the platform provided by the existing industry-university collaborations.

Government: Internship at reviewing and regulatory authorities

■ Attending scientific meetings hosted or co-hosted by GPLLI

Students are encouraged to attend Life Innovation seminars and forums hosted or co-hosted by GPLLI. Attending some scientific meetings of particular significance to fostering young researchers will be mandatory.

**【List of the GPPLI instructors】**

**Graduate School of Medicine (Basic)**

Kouhei Miyazono, Takeshi Iwatsubo, Shigeo Okabe, Masanobu Kanou

**Institute of Medical Science**

Yasushi Kawaguchi, Kensuke Miyake

**Graduate School of Medicine (Hospital)**

Takashi Kadowaki, Mineo Kurokawa, Nobuhito Saitou, Tsuyoshi Takato, Tatsuya Yamasoba

**Graduate School of Science**

Yuichi Iino, Yoshitaka Oka, Hiroyuki Takeda, Yoshitaka Fukada

**Institute of Molecular and Cellular Biosciences**

Katsuhiko Shirahige, Yoshinori Watanabe

**Graduate School of Pharmaceutical Sciences**

Ikurou Abe, Masanobu Uchiyama, Ichio Shimada, Shigeo Murata, Yasuteru Urano,

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## **Graduate School of Engineering**

Ichirou Sakuma, Shu Takagi, Hitoshi Tabata, Yuichi Tei/Ung-il Chung, Naohiko Sugita

### **【Application guideline for the academic year 2017】**

■ Students in the first year of their Master's program, and prospective students for 2017 of Doctoral program in Medicine/the Doctoral program in Pharmacy (4-year course) are eligible to apply.

\*For students taking the Master's program in Medical Sciences who wish to go on to the 4-year course Doctoral program in Medicine, only the first year students are able to apply.

\*\* As the final year of this Program is FY 2017, curriculum of the GPLLI program is not provided from FY 2018, but part of the curriculum is expected to be transferred to the MEXT TAKUETSU graduate school program. Even if the transfer to MEXT TAKUETSU does not materialize, economic support for students who joined the course during the term of the Program shall be continued until completion of the degree program, in accordance with the aforementioned notification by the president of the University.

Those who wish to join the GPLLI course must hand in all the required application documents (2 copies of applicant information, research proposal, essay, research background, and supervisor's letter of opinion) at the GPLLI office (Room No. S115 on the 1<sup>st</sup> floor of Faculty of Medicine Building 1). **Application period is from November 1st through 11<sup>th</sup>, and the deadline is 5pm, November 11<sup>th</sup>.**

Applicants sending in their documents by post must make sure that their mail reaches the GPLLI office (Room No. S115 on the 1<sup>st</sup> floor of Faculty of Medicine Building 1) by no later than November 11, 2015.

**For prospective students for fiscal year 2017 enrolling in the 4-year course Medical School, the application period is from November 28<sup>th</sup> through December 2nd, and the deadline is 5pm, December 2nd.**

※ Non-Japanese students are requested to bring their tutors to the briefing session.

### **【Selection process and notification for the GPLLI course students】**

Selection process and notification for the academic year 2017

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■ Selection: In late December - January, 2017

Applicant information, entrance examination result, summer term's transcript of the first year of Master's program\*, interview result will be screened by each department, preliminary to the selection by the GPLLI academic affairs committee. The result will be announced early February, 2017.

\* The transcript will not be screened if you enter the university in October, 2016.

**【Miscellaneous notes】**

■ About the GPLLI grant

GPLLI students can receive a monthly grant of 80,000 or 180,000 yen (amount to be decided), but there are some notes of caution. Please review carefully!

1. If you receive the GPLLI grant, you may no longer receive other financial aid such as scholarships. Students falling under the following categories may not receive the GPLLI grant at the same time.

i. Students sponsored by the national government

Students who have already been accepted as JSPS Research Fellows (DC).

Students already receiving scholarship loans from the Japan Student Services Organization (JASSO).

Foreign students already receiving either the Japanese Government (MEXT) Scholarship or the JASSO Honors Scholarship.

ii. Foreign students who are sponsored by their own governments.

iii. Students already receiving scholarship from the University of Tokyo.

In addition, those receiving the GPLLI grant will not be eligible for the grant for the Promotion of Doctorate Researchers.

2. The GPLLI grant counts as "sundry income". Grant recipients are asked to go to the local tax office each year and file taxes as "sundry income" about the grant of the previous year. The amount of sundry income subject to taxation is the annual amount of GPLLI grant paid from January 1<sup>st</sup> through December 31<sup>st</sup> minus necessary expenses for research such as admission fee and tuition. Please keep a record of your income and expenditure and relevant documents.

3. To be eligible for the GPLLI grant, you must participate fully and thus you are not allowed to engage on a part time employment.

4. To be eligible for the GPLLI grant, you must participate in the course for a full year. If you fail to perform on your specialized field in your department or on multidisciplinary program in the GPLLI course, the GPLLI grant may be terminated. If you plan to study at other institutions, please provide detailed

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information on the name of the institution and the study period.

5. If you plan to study abroad for more than three months under a program outside the official GPLLI curriculum, you may not be eligible for the GPLLI grant during the period of the program. Please consult with your supervisor and GPLLI committee member prior to making a commitment.
6. You need to apply for a JSPS Research Fellowship DC every year in order for you to receive the GPLLI grant. Please submit a copy of the JSPS application form immediately after you apply.
7. The names of all grantees of the GPLLI program are to be made public.
8. Selection for admission to the TAKUETSU program shall be made during the term of the GPLLI program.

#### **【GPLLI course students who do not receive the monthly grant】**

- When a GPLLI student is accepted as a JSPS Research Fellow DC, they are strongly recommended to remain in the GPLLI course through their Doctoral years, while not receiving the GPLLI grant. These students will be counted outside of the limitation on yearly student enrollments.
- Students who do not wish to receive the grant, due to some reasons including other fellowships and dependent exemption concerns, may also apply for the GPLLI course. These students, too, when they pass the selection and become course students, will be counted outside of the limitation on yearly student enrollments.

#### **【Contact information】**

For information on student affairs relating to the GPLLI course:

- Please contact your supervisor and committee members of your discipline first.
- GPLLI secretariat: Room No. S115 on the 1<sup>st</sup> floor of Faculty of Medicine Building #1.
- E-mail address of the GPLLI secretariat: [office-gplli@m.u-tokyo.ac.jp](mailto:office-gplli@m.u-tokyo.ac.jp)

Data updated in October 2016