

Job Opportunity: Associate Professor (Junior Associate Professor) in Department of Biomolecular Pathogenesis

Medical Research Laboratory (MRL) of Institute of Science Tokyo (Science Tokyo) invites applications for a faculty position (Associate Professor or Junior Associate Professor) in the field of Biomolecular Pathogenesis.

1. Position

Associate Professor or Junior Associate Professor

2. Areas of Research

Our Laboratory (Department of Biomolecular Pathogenesis) focuses on selective intracellular degradation systems as a fundamental molecular basis for maintaining cellular homeostasis. During normal cellular processes, harmful metabolic byproducts are generated, and dysfunctional proteins and organelles accumulate. These factors impair cellular function and consequently lead to disease; therefore, they must be selectively eliminated. From this perspective, we have been investigating the mechanisms of selective degradation across multiple hierarchy (metabolites, proteins, and organelles).

In the selective degradation of dysfunctional organelles, it is well established that target organelles are selectively ubiquitinated and subsequently subjected to autophagic degradation. Indeed, our laboratory has extensively studied ubiquitin-mediated selective autophagy of mitochondria, known as mitophagy (Matsuda, *JCB* 2010; Koyano, *Nature* 2014; Okatsu, *JCB* 2015; Yamano, *JCB* 2020; Yamano, *EMBO J.* 2024).

We now aim to further expand our research to reveal the molecular mechanisms underlying ubiquitin-mediated selective autophagy of peroxisomes called pexophagy (Koyano, *EMBO Rep* 2019; Koyano, *Nat Commun* 2024), with a focus on its role in long-chain fatty acid metabolism.

We are seeking a highly motivated researcher who will employ approaches in biochemistry, molecular biology, and cell biology to elucidate the molecular mechanisms of ubiquitin-mediated pexophagy and its relationship to long-chain fatty acid metabolism. We particularly welcome applicants with strong expertise in peroxisome biology. In addition, as the position of Associate Professor (or Junior Associate Professor), the successful candidate is expected to actively contribute to the management of the laboratory in close collaboration with the Principal Investigator, Professor Noriyuki Matsuda.

3. Terms and Conditions of Employment

The contract of Full-time position will start from October 1, 2026 and will not exceed five years period, renewable based on an evaluation according to the rules and regulations of Science Tokyo once.

Salary will be determined by the annual salary system outlined by Science Tokyo regulations.

Female applicants are strongly encouraged to apply for this position, as Science Tokyo

promotes gender-equality work environment. We provide career support programs for all staff that enable them to balance work and life, such as childbirth and child rearing.

Status of measures to prevent second-hand smoke : No smoking on the premises

4. Application Forms

- (1) Resume (Curriculum Vitae, etc.) (free form).
- (2) List of publications (free form).
- (3) Reprints of representative publications (up to 3 papers, photocopies acceptable).
- (4) Summary of the representative publications (100 words each).
- (5) List of research grants and patents (free form).
- (6) Summary of previous research contributions and future research and education plans (in 500 words).
- (7) A list of other achievements (Awards etc).

5. Work Location

Medical Research Laboratory, Institute of Science Tokyo
1-5-45 Yushima, Bunkyo-ku, Tokyo 113 - 8510, JAPAN

6. Deadline

May 28, 2026, Japan Standard Time.

7. Inquiry

Yushima Research Institute Administration Division, Institute of Science Tokyo

E-Mail: pr.mri.adm@tmd.ac.jp

Tel: +81-3-5803-4504

8. How to Apply

All the application documents must be sent to Administration Division. To apply, please enter the following [E-mail contents] at pr.mri.adm@tmd.ac.jp

Please contact us by E-mail by May 27, 2026.

We will send the URL and manual for submission to the university to the "destination email address".

[E-mail contents]

- Subject: "Application for the Associate Professor or Junior Associate Professor position in the Biomolecular Pathogenesis"
- Full name
- Destination email address

All information will be treated with the strictest confidentiality in accordance with pertinent laws and rules.