

Metabolic Homeostasis – UT Southwestern Medical Center

One postdoctoral fellow position is available for a collaborative project led by Drs. [Fujikawa](#), [You](#), and [Elmqvist](#) at [Center for Hypothalamic Research, UT Southwestern Medical Center](#). Our research interest can be found [here](#). A successful candidate will investigate the mechanism by which the central nervous system (CNS) regulates metabolic homeostasis.

Recently, our team established the screening platform that allows us to identify novel gene candidates that potentially regulate whole body metabolism. We found several gene candidates and have generated genetically-engineered mice with targeting these genes. We are investigating the role of these genes in the regulation of metabolism by using variety of tools/techniques; genetically engineered tools (e.g., Cre/LoxP, optogenetics, chemogenetics DREADDs, and Ca²⁺ imaging), neuroanatomical methods (e.g., immunohistochemistry, in situ hybridization, and light-sheet microscopy with tissue-clearing approach), molecular biology (e.g., RNA-seq, single-cell RNA-seq, and CRISPR/Cas9), several surgical techniques (e.g., icv injection, targeted microinjection, and jugular vein catheter), and electrophysiology. We are looking for a talented postdoc who can spearhead this exciting project.

We are looking for highly motivated and enthusiastic talents. The candidate should have excellent communication skills, and be self-motivated, a quick learner, and importantly a team player as the nature of this project. The candidates who have expertise in neuroscience, metabolism, and/or endocrinology will be preferred. The successful candidate must have animal research experiences, particularly rodents. Minimum requirements are 1) Ph.D., Ph.D./M.D, or M.D. with research experience. The applicants who anticipate defending their thesis in the near future are also eligible and welcome. 2) Fundamental English ability in order to obtain US VISA.

Salary, Benefits, & Career development

1. 100% research effort
2. Salary will be paid according to the UTSW and NIH guidelines. Please see the following [URL](#).
3. The benefit will include fundamental health insurance, matching pension, etc.
4. The successful applicant will be supported to attend conferences based on his/her progress. We highly recommend the successful applicant obtain their fellowship and own grant. We will fully support these processes.

Please send the following documents as a single PDF to Teppei Fujikawa at Teppei.fujikawa@utsouthwestern.edu

1. CV including education list, work experiences, publication list
2. Summary of previous and current research and future plan (1-2 pages)
3. 3 references. Name, institute, and email address. We will contact them if necessary.

After screening of documents, the finalists will give a presentation and be interviewed with online video tools (Zoom, etc).

Information on our postdoctoral training program, benefits, and a virtual tour can be found at

<http://www.utsouthwestern.edu/postdocs>.

Teppei Fujikawa, Ph.D.
Assistant Professor
Center for Hypothalamic Research
Department of Internal Medicine
The University of Texas Southwestern Medical Center
[Teppei Fujikawa, Ph.D. - Faculty Profile - UT Southwestern](#)

UT Southwestern Medical Center is committed to an educational and working environment that provides equal opportunity to all members of the University community. As an equal opportunity employer, UT Southwestern prohibits unlawful discrimination, including discrimination on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, citizenship status, or veteran status. To learn more, please visit: <https://jobs.utsouthwestern.edu/why-work-here/diversity-inclusion>.