

Transgenic Core Manager

The Institute for Biogenesis Research (IBR), Centers of Biomedical Research Excellence (COBRE) - Transgenic Core, founded by Professor Ryuzo Yanagimachi at the John A. Burns School of Medicine (JABSOM), in the University of Hawaii at Manoa (UHM) is seeking a full time researcher with micromanipulation skills. The individual in this position will assist in the production of transgenic mice in the Core with the help of molecular biologists in the IBR. The individual will also be able to pursue research projects under the mentorship of senior IBR faculty. Duties include: Performs mouse assisted reproduction techniques such as intracytoplasmic sperm injection (ICSI), in vitro fertilization (IVF), tetraploid cloning and somatic cell nuclear transfer (SCNT); Generates transgenic mice (knock-in, -out, -down) by ICSI, pronuclear/cytoplasmic injection or blastocyst microinjection; Helps with the cryopreservation and cryorecovery of mouse sperm, oocytes or embryos. Performs de novo mouse ES cell line derivation. Participates in IBR research related to mouse transgenesis and new methods of introducing deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) into embryos for medical research studies. Trains and manages one (1) technician who will assist in the above mention tasks and prepare DNA or RNA constructs for said tasks. Develops and writes IACUC protocols. Conducts rate studies for cost of core services offered. Assists in planning and determining facility charges for charge-back system.

Education/Training: MS or PhD from an accredited college or university in a Biological Science field.

Experience: Three to five (3-5) years of experience working with reproductive biology techniques. Micromanipulation experience to perform transgenesis and mouse cloning experiments. Previous experience in communicating with faculty, research staff, and/or university personnel to achieve research objective(s).

Knowledge: Working knowledge of general principles of biological and biochemical subjects. Proficient knowledge of common computer software for word processing (e.g., Microsoft Word), and database/ spreadsheet (e.g., MS Excel or MS Access).

Abilities and Skills: Able to communicate well both orally and in writing. Must be able to organize PowerPoint presentations. Attention to detail required in keeping notes of procedures, specimens, cage counts, and documentation of expenditures.

Please contact Stefan Moisyadi, PhD at moisyadi@hawaii.edu for more details.