Scientist, Drug Evaluation, Otsuka Maryland Medicinal Laboratories, Inc., Rockville, MD

The Scientist, Drug Evaluation, will:
• initiate, direct, and execute all OMML pre-clinical scientific research and/or development strategies in an oncology field
• investigate the feasibility of applying a wide variety of scientific principles and concepts to potential inventions, products and problems
• plan and execute laboratory research
• maintain knowledge of state-of-the-art principles and theories
• make major contributions to scientific literature and conferences
• interface with various departments and serve as internal consultant
• act as spokesperson on corporate research and development and advise top management
• participate in development of patent applications

When involved in an anti-cancer drug discovery project, the Scientist, Drug Evaluation will:
• conduct target validation study using genetically modified animals, and efficacy study of hit compounds in xenograft animal models, including PK analysis
• contribute to a study design process by data from pilot study
• contribute to a lead-optimization process in collaboration with a medicinal chemistry group, based in Japan
• develop multiple animal models, including orthotropic tumor model, to evaluate anti-cancer effect of compounds or biologics
• execute in-vivo experiments to characterize and validate novel targets
• collect and interpret data in terms of correlation between in vitro and in vivo activity
• provide medicinal chemists with wet data for structure-activity relationship analysis
• prepare technical reports, summaries, protocols and quantitative analyses
• maintain broad knowledge of state-of-the-art principles and theories
• oversee in vivo experiment operations, including scheduling, drug administration and data flow
• modify and optimize animal models for lead validation and optimization
• isolate cells, DNA, RNA and protein from tumors, analyze the samples by immunohistochemistry, flow cytometry, Real-Time PCR and immunoblotting
• use gene knockout or knockdown technologies, including siRNA, shRNA and Zinc Finger nuclease for target validation in vitro and in vivo
• work with manufacturing and quality control to develop tests, as well as analyze and report results

Employees who are currently on a disciplinary action and/or not meeting job expectations (i.e., do not have an overall Meets Expectation (or higher) rating on most recent performance evaluation) are not eligible to apply for posted jobs.

Requirements:

• Ph.D. in a scientific discipline, and a minimum of 5+ years of demonstrated experience in the pharmaceutical industry or postdoctoral experience in an oncology field
• A minimum of five years of experience in evaluation of anti-cancer drugs in vivo (xenograft models, orthotropic models) with good skill in p.o., i.p., i.v., s.c. and i.m. administration
• Expert knowledge of scientific principles and concepts, particularly in genetics
• At least one year of hands on experience in breeding genetically modified mice including genotyping skill. Must understand the principle of breeding (genetics) and typing methods
• Demonstrated success in technical proficiency, scientific creativity, collaboration with others and independent thought

Preferred
• Ph.D. in an oncology field
• Experience in in vivo imaging
• Knowledge of pharmacology and molecular biology

• Immunohistochemistry skills
• Knowledge and hands on experience in flow cytometry
• Experience in analyzing PK profiles and tissue distribution
• A record of relevant scientific publications

To Apply:

Contact, Takumi Matsumoto, Ph.D.
Tel: 240-683-3314
E-mail: takumi.matsumoto@otsuka-us.com
Otsuka Maryland Medicinal Laboratories, Inc.
9900 Medical Center Drive, Rockville, MD 20850