Job Description

Research Investigator(1703634)

Description

A Research Investigator in the Department of Immuno- and Molecular Toxicology will be responsible for designing, justifying, developing, implementing, and conducting various molecular and cellular biology-based in vitro and ex vivo assays, as well as directing in vivo or in vitro studies that address the toxicologic and/or pharmacodynamic potential of compounds in development. In addition, the qualified candidate will participate on investigative project teams aimed at addressing key scientific and/or project-related questions including mechanistic toxicology concerns across the portfolio. This position involves evaluation of recent literature and new technology, assessment and implementation of new experimental techniques/approaches, significant problem-solving efforts, as well as presentation and defense of experimental approaches and data to colleagues and management.

Job Responsibilities:

- Be a key leader in the design, development, validation, and conduct of immunologic, biochemical, and molecular biology based assay systems that address the toxicologic and/or pharmacodynamic potential of compounds in development, as well as assays to investigate mechanisms of toxicity across the portfolio. As appropriate, this person communicates and defends results of experimental testing in presentation formats, meetings, internal reports and/or external publications.
- Design and develop laboratory procedures/assays to support programs across the portfolio, establish procedures for experimental techniques, and conduct laboratory procedures/assays in compliance with established protocols, often according to regulatory and standard laboratory requirements. This person will use a broad range of experimental platforms including ex vivo or in vitro analysis of the function/phenotype of a variety of cell types, cell culture including 3D and complex tissue systems, multiplexing technology, flow cytometry, polymerase chain reaction, biochemical assays, ELISA and many others, as appropriate.
- Share scientific expertise across departments to facilitate successes in drug development portfolio wide.
- Prepare or revise test methods and standard operating procedures and maintain equipment under guidelines set forth by SOPs and, when appropriate, GLP regulations.
- Play a key role in group laboratory meetings and participate in data analysis and interpretation/summary discussions, and troubleshooting of technical issues initiated by self and colleagues.
- Maintain study notebooks, compiles data, and details written experimental instructions, particularly in areas involving new technology and/or novel experimental approaches.

Qualifications

Minimal Knowledge Base/Skill Set Requirements:

- A Ph.D. degree and Postdoctoral experience in Pharmacology, Toxicology, Molecular and Cell Biology, or other related bioscience. An understanding of the immune system and immune cell signaling is preferred.
- Hands-on experience with molecular and cell biology techniques including experience in flow cytometry, ELISA, functional tissue and cell-based assays, nucleic acid isolation, and polymerase chain reaction. The candidate should also have experience working with animal models and in vitro tissue-based models.
- Must be able to work independently and possess a high level of self-motivation and determination with a strong aptitude in method development and critical scientific thinking. In addition, must have a PASSION for working in a team setting and driving robust science.
Must have good written and verbal communication skills.
Individual must be able to manage multiple research activities, provide and accept input on data interpretation, foster a spirit of team effort, and be able to work well with others.

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**Job Function**: Tox
**Primary Location**: NA-US-NJ-New Brunswick
**Organization**: R&D - Discovery - Leads Discovery Optimization (LDO)