



Job details

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Job ID	208360BR
Posting Title	Scientist II, RDA - DMP
Division	NIBR
Business Unit	RD NIBR
Country	USA
Work Location	Cambridge, MA
Company/Legal Entity	USA Novartis Institutes for BioMedical Research, Inc., Cambridge, MA
Functional Area	Research & Development
Therapeutic/Disease Area	Respiratory
Job Type	Full Time
Employment Type	Regular

Job Description

Independently conceive, execute, and interpret complete range of in vitro and in vivo experiments in support of pharmaceutical development in Respiratory Disease Area (RDA) within Developmental and Molecular Pathways (DMP) group. Conduct research supporting the selection of clinical candidates, and coordination of preclinical activities dedicated to discovering new therapies for diseases such as Cystic Fibrosis, Chronic Obstructive Pulmonary Disease (COPD), Asthma and Idiopathic Pulmonary Fibrosis. Apply knowledge and experience in respiratory research and drug discovery to deliver in vivo pharmacology support in the respiratory portfolio. Develop new models to facilitate target identification, validation, and determination of PK/PD relationships. Develop and implement highly specialized animal models and cell-based assays for target validation and pharmaceutical profiling. Support conception, organization, execution, analysis and reporting stages of experimental work. Deliver high quality in vivo data from pre-clinical respiratory models to enable the progression of the RDA drug discovery portfolio. Design, execute, and analyze in vivo pharmacology studies. Apply respiratory physiology and relevant functional endpoints for in vivo quantification as well as design and execution of in vivo programs. Contribute to RDA's overall in vivo pharmacology strategy and experimental approaches. Interface with internal and external in vivo experts as needed. Work independently or as part of a team to meet core objectives aligned with agreed target dates and priorities. Effectively use molecular, in vitro, ex vivo and broad range of in vivo techniques. Perform ex vivo and in vitro analysis using techniques such as ELISAs, gene expression, histology, immunofluorescence. Apply expertise in animal handling for collection of blood and tissues; dosing by inhalational, intratracheal, intranasal, oropharyngeal, intraperitoneal, intravenous or subcutaneous routes; anesthesia (recovery and terminal); and administration of analgesics. Utilize surgical techniques, including sterile recovery surgery, laparotomy and non-sterile techniques, e.g. cannulation of vessels and trachea. Measure lung function parameters in laboratory animals using invasive and non-invasive techniques eg whole body plethysmography, invasive resistance and compliance measurements and forced oscillations. Perform experiments and contribute to assigned projects according to the appropriate SOP, GLP, GMP and other guidelines. Perform experiments in compliance with Novartis guidelines on health and safety and data recording, and Novartis Code of Conduct. Train colleagues in key techniques and assays as needed. Prepare internal reports and present to project teams/scientific colleagues as required.

EEO Statement

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Minimum requirements

Candidate must possess a Bachelor's or foreign equivalent degree in Biology, Pharmacology, Veterinary Science or related field and minimum 5 years of industry experience in scientific research of respiratory diseases for drug discovery, and design, execution & analysis of in vivo pharmacology studies contributing to overall in vivo pharmacology strategy and experimental approaches for disease area, with demonstrated expertise in molecular, in vitro, ex vivo and in vivo techniques; ELISA, gene expression, histology, immunofluorescence; animal handling (collection of blood and tissue, dosing, anesthesia - recovery and terminal, analgesics administration); surgical techniques including sterile recovery surgery, laparotomy and non-sterile techniques (e.g., cannulation of vessels and trachea); internal reports & presentation of results to project teams/scientific colleagues. Experience must include whole body plethysmography, invasive resistance and compliance measurements and forced oscillations to measure lung function in laboratory animals.

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