Research Associate I – Ordway Lab

The applicant will be involved primarily with in vivo animal models to evaluate specific characteristics of NTM pathogenesis and NTM drugs working in BSL-3 laboratories. These studies will include evaluation of in vitro minimum inhibitory concentration (MIC) and minimum bactericidal concentrations (MBC). In vivo compound toxicity and efficacy of experimental compounds in mice. The applicant will work closely with the other members of the NTM compound screening group and is expected to pursue independent experiments after training. A Bachelor of Science degree in microbiology, chemistry or closely related field and laboratory experience is required. BSL-3 experience and infectious diseases animal handling is preferred.

Detailed job description includes but is not limited to:
• Culture of Nontuberculosis mycobacteria in vitro.
• In vitro MIC and MBC plate assays using a microdilution methods under BSL-3 work conditions, including preparation of drugs and media, and new assay development (if needed).
• Preparation of drug formulations for in vivo efficacy experiments.
• Communication with undergraduates and hourly students involved in treating animals and assisting in this process (by gavage, injection, inhalation, etc.) as required.
• Observation of infected and/or drug-treated animals in the BSL-3 laboratory.
• Dissection of animals for aseptic organ and/or blood collection.
• Preparation and plating of organ homogenates by serial dilution.
• Counting of bacterial colonies on agar plates.
• Tissue culture work with primary (bone marrow-derived macrophages) may also be required.

Administrative tasks will include:
• Record keeping and data input. Interpretation of experimental results, and writing of detailed protocols and formal reports.

General Lab Responsibilities:
• Being responsible for maintenance of equipment and supplies of the lab.
• Being involved in day to day needs around the lab.
• Supervising hourly students or undergraduates.

Applicants must hold a bachelor's degree in a microbiology, chemistry or closely related field and have laboratory experience in microbiology, bacteriology (or related field), with practical experience with basic microbiological techniques. The successful candidate will possess a strong work ethic, excellent writing and communication skills, knowledge of standard computer applications, and the ability to work productively as a member of a large and diverse research team.

Preferred Qualifications: Candidates with Biosafety level three (BSL3) experience (especially with Mycobacterium tuberculosis and nontuberculosis mycobacteria), animal handling experience, aseptic technique, dilutions, bacterial enumeration or tissue culture experience and experiment planning and organization is preferred.

TO APPLY: [http://jobs.colostate.edu/postings/15601](http://jobs.colostate.edu/postings/15601)

CSU is an EO/EA/AA employer and conducts background checks on all final candidates.