LEAD SENIOR SCIENTIST-IMMUNOASSAYS

Summary

Accomplished i mmunoassay scientist \hat{A} with broad expertise in immunology, neurology, hematology/thrombosis, gastroenterology, and general pathology. \hat{A} Experience in cell culture (primary and established lines), flow cytometry, qPCR, sequencing, protein purification, protein expression, and clinical trial study design.

Skill Highlights

Problem solving for assay methodology and optimization
Protocol writing in accordance to GLP and CLIA standards

Accomplishments

- Discovered a new potential biomarker for monitoring ALS.
- Characterized the role of coagulation factors and platelets in immune responses to vascular injury in a feline model.
- Managed pre-clinical trial investigations in rodent models of inflammatory bowel disease which lead to clinical trial studies of IL-1RA and the role of bacteria in Crohn's and colitis.
- Developed an in vitro assay for studying neurite and Schwann cell outgrowth along nanofibers.
- Optimized an ELISPOT assay for neoantigen identification in a mouse tumor model of glioblastoma.

Professional Experience

Lead Senior Scientist-Immunoassays Feb 2015 to Current

Baylor College Of Medicine il/4 Mcallen, TX

- Manage daily operations for the immunoassay section of a new immunomonitoring laboratory (IML) core facility.
- Implemented GLP standards and adapted protocols to meet CLIA certification.
- Consult with Investigators regarding which assays and samples are best for their clinical trial and research plans.
- Review and implement new technologies (Luminex, Nanostring, Digital single cell sequencing, iLab Solutions for core management).
- Emphasize quality, timeliness and attention to detail while performing immunoassays. A Our clients comment that my work is of the highest quality compared to their previous experience with CROs.
- Train new employees, Post-doctoral trainees, and students.
- Established Quality Controls for internal performance of mouse and human immunoassays.
- Prepare written documentation of the assay procedure, data compilation, and explanation of the results.
- Assist the cytometry and tetramer production specialists as needed.
- Prepare reports for monthly meetings and annual reviews.

Post-doctoral Trainee Sep 2009 to Jan 2015

Milford Regional Medical Center i1/4 Hopedale, MA

Investigated B cell responses to vaccines in infants having cardiac transplant. The project entailed using pediatric patient samples to develop ELISPOT and flow cytometry assays for characterizing vaccine-responsive memory B cells.Â

My second post-doc position was in Neurology. \hat{A} I utilized my flow cytometry to identify a potential blood biomarker in human ALS subjects. \hat{A} I also established immunohistochemistry, primary and organotypic culturing techniques for the investigation of immune changes during diabetic neuropathy in a mouse model. \hat{A}

Research Technician III Sep 1990 to Dec 2008

University Of North Carolina i1/4 City, STATE

Worked for a clinical research investigator in Gastroenterology from 1990-1994. Â Our work led to 4 manuscripts and establishment of the idea that bacteria can promote inflammatory bowel disease.

Worked for the Division of Laboratory Animal Medicine from 1994-2008. I managed research projects of two DVM/PhDs investigating cardiovascular changes, thrombotic disorders, regulatory T cell functions in mice, and neutrophil functions in various animal models. I also performed clinical testing for the Division as needed. Â One project led to my PhD thesis work.

Medical Technologist, generalist May 1989 to Jul 1990

Missouri Baptist Hospital il/4 City, STATE Clinical laboratory work in all areas of the laboratory.

Skills

Bioassays, ELISA, cell culture, protein purification and identification, nucleic acid (qPCR, genotyping, sequencing, micro RNA detection) techniques.

Education

Ph.D., Molecular and Cellular Pathology 2009 University of North Carolina at Chapel Hill il/4 City, State, USA

• Advisor: Dwight A. Bellinger, DVM/PhD

Bachelor of Science, Medical Technology 1989 St. Louis University 1/4 City, State, USA Certification in Medical Technology (ASCP)