resume\_55@gmail.com  
(184).792.0259  
Jong Yu Staff Microbiologist  
Williston VT - Email me on Indeed: indeed.com/r/Jong-Yu/f7d7a5b646de5500  
Microbiologist working in an envriomental monitoring laboratory for biosolids microscopic particulate analysis and microbiological procedures in adherence to EPA for detecting pathogenic microbes in these environmental samples.  
Also have academic research experience working with Vibrios in shellfish particularly in oysters and testing treatment methods to eliminate high levels of Vibrios.  
WORK EXPERIENCE  
Staff Microbiologist  
Analytical Services Inc - Williston VT - August 2013 to Present  
Responsibilities  
Processing biosolids microscopic particulate analysis (MPA) filters and bacteriological analysis on environmental samples as a part of an environmental surveillance programs for potential pathogens in these environmental samples.  
Skills Used  
Aseptic Technique  
Following SOPs that adhere to EPA standards Time efficiency  
Ability to adapt quick to situations  
Research Technician  
University of New Hampshire - Durham NH - May 2011 to Present  
-Michael Taylor Ph.D. Candidate (Summer 2011 Present)  
 Processed oysters and water according to the FDA Bacteriological Analytical Manual (BAM) Vibrio enrichment method to detect naturally occurring Vibrio parahaemolyticus in NH oysters after relay treatments using SmartCycler II real-time PCR machine  
 Compared new chromogenic media to standard TCBS media used in FDA BAM for V. parahaemolyticus detection in oyster water and sediment samples  
 Extracted genomic materials from oyster homogenate for metagenomic sequencing using a commercial kit Supervised an undergraduate research student to perform basic laboratory procedures (media preparation laboratory upkeep and autoclaving biohazardous waste) and process samples for V. parahaemolyticus detection in oysters using culture-based and real-time PCR method  
Research Technician  
University of New Hampshire - Durham NH - January 2011 to Present  
-Dr. Stephen Jones Research Associate Professor (Spring 2011 Present)  
 Lead the Vibrio surveillance project to detect V. parahaemolyticus V. vulnificus and V. cholera in oyster water and sediment samples collected from two oyster beds in the Great Bay Estuary following the FDA BAM enrichment method for Vibrio isolation and detection  
 Prepared media and reagents needed for Vibrio enrichment isolation cultivation and preservation  
   
 Managed the laboratory by ordering supplies and reagents needed for the surveillance and relay projects routine laboratory upkeep and maintenance and familiarizing with new laboratory equipment such as SmartCycler II and HOBO temperature and salinity data logger  
Laboratory Technician  
University of New Hampshire - Durham NH - August 2012 to June 2013  
-Dr. Aaron Margolin Professor of Microbiology (Summer 2012 present)  
 Maintaining different mammalian cell lines (Buffalo green Monkey Kidney Human Embryonic Kidney and African Green Monkey Kidney cells) for propagation and detection of Astrovirus Poliovirus Rotavirus and Adenovirus 40/41 in sludge samples  
 Preparing and splitting mammalian cells for neutral red plaque assay and crystal violet plaque assay for viral detection and quantification and tube suspension cell culture method to propagate and detect viruses using ABI real-time PCR machine  
Laboratory Assistant for Microbiology Labs  
University of New Hampshire - January 2012 to December 2012  
BMS 708: Virology Lab  
BMS 715: Immunology Lab  
BMS 602: Pathogenic Microbiology Lab BMS 407: Germs  
 Presented lab lectures and lab exercises to students  
 Aiding students in laboratory exercises  
 Supervising undergraduate teaching assistants  
 Ordering media reagents and supplies for future lab exercises  
 Answering student emails about lab materials grades and any other inquiries Troubleshooting lab protocols  
 Preparing lab quizzes and lab practical for testing students  
Teaching Assistant  
University of New Hampshire - Durham NH - 2008 to 2011  
University of New Hampshire  
-BMS 503: General Microbiology (Fall 2011)  
-BMS 703: Infectious Disease and Health (Fall 2011)  
-BMS 602: Pathogenic Microbiology (Spring 2011 Summer 2011) -MLS 721: Mycology Parasitology Virology (Spring 2009)  
-BMS 407: Germs (Fall 2008 Fall 2010)  
 Presented lab lectures and lab exercises to students  
 Aiding students in laboratory exercises  
 Supervising undergraduate teaching assistants  
 Ordering media reagents and supplies for future lab exercises  
 Answering student emails about lab materials grades and any other inquiries Troubleshooting lab protocols  
 Preparing lab quizzes and lab practical for testing students  
Graduate Research Assistant  
University of New Hampshire - Durham NH - 2009 to 2010 -Dr. Stephen Jones Masters Degree Adviser  
 Coordinated and performed depuration and relaying treatments at Spinney Creek Shellfish Inc. to eliminate Vibrio parahaemolyticus and Vibrio vulnificus in NH oysters  
 Optimized a real-time PCR protocol to detect V. parahaemolyticus and V. vulnificus in oysters using Bio-Rad iCycler 5 following a modified protocol used by Dr. Jones previous work  
Undergraduate Teaching Assistant  
University of New Hampshire - September 2006 to March 2008  
MICR 501: Microbes for Human Diseases (Fall 2006 2007)  
-MICR 602: Pathogenic Microbiology (Spring 2007 2008)  
 Helped aliquot cultures experiment and equipment set-ups clean ups and as well as helping students whenever possible during the course of the laboratory session.  
Poster Abstracts and Presentation:  
-Jones S.H. J. Yu B. Schuster C. Ellis J. Mahoney V. Cooper and C. Whistler. 2011. Environmental Conditions and the dynamics of Different Pathogenic Vibrio Species in Northern New England Shellfish  
Undergraduate Researcher  
University of New Hampshire - 2006 to 2008  
-Dr. Frank Rodgers Professor of Microbiology  
 Analyzed stx-2 toxin production from Escherichia coli O157:H7 after co-culture experiments with probiotics and antibiotics by using African Green Monkey Kidney cells for cytotoxicity assays  
 Maintained the African Green Monkey Kidney cell lines for cytoxicity assays and establish a protocol for properly splitting cells using a hemocytometer  
Laboratory Assistant  
University of New Hampshire - Durham NH - 2006 to 2008  
-Robert Mooney Instrumentation Scientist  
 Responsible for preparing reagents and media for all Microbiology teaching laboratories properly handling and disposing biohazardous waste cleaning and calibrating (if needed) laboratory equipment such as microscopes and pipettors and ensuring all reagents and materials are refilled and accounted for on each laboratory bench for students to use  
EDUCATION  
M.S. in Microbiology  
University of New Hampshire 2011  
B.S. in Microbiology  
University of New Hampshire March 2008  
- Durham NH  
- Durham NH