

Carmen Wilson

Raleigh, NC 27615 | (910) 224.6497 | cawilso72@gmail.com

Qualification Overview

Highly motivated self-starter with five years of research laboratory experience and three years of operational support looking for new and exciting opportunities.

Education

Bachelor of Science in Biological Sciences – North Carolina State University – Raleigh, NC 5/2014

Relevant Coursework, Licenses and Certifications: Organic Chemistry I & II, College Physics I & II, Genetics, Medical Microbiology, Biochemistry, Calculus I & II, Immunology, Plant Life, Evolutionary Biology, Invertebrate Biology

Associate of Science in General Science – Fayetteville Technical Community College – Fayetteville, NC 7/2010

Relevant Coursework, Licenses and Certifications: Anatomy & Physiology, Infection & Hazard Control, Microbiology, Biological Chemistry, Biology I & II, Chemistry I & II, Statistics I

Professional Experience

Associate in Research

10/2014 - Present

HOWARD HUGHES MEDICAL INSTITUTE at DUKE UNIVERSITY – DURHAM, NC

Principal Investigator: Dr. Philip N. Benfey

- Prepare and process requisitions and purchase orders for laboratory supplies and equipment using Ariba Spend Management Suite and SAP portals on a bi-monthly basis.
- Maintain records of goods ordered and received.
- Plan and conduct experiments utilizing novel molecular biology cloning techniques (CRISPR-Cas9, Golden Gate, Gibson) to develop mutant constructs in order to study its effects in plants under minimal supervision from post-doctoral staff.
- Identify complex problems during development of mutant constructs and review related literature to develop and evaluate options and implement solutions.
- Foster constructive and cooperative working relationships with a diverse workforce in a multicultural setting.
- Maintain detailed written and electronic journals containing analyses and interpretations of research data.
- Adhere to chemical hygiene plans, laboratory, and safety SOPs.
- Support biohazardous and hazardous chemical waste disposal guidelines in accordance with Duke University Occupational & Environmental Safety Office.

Research Technician II

5/2013 – 09/2014

CENTER FOR LIGNOCELLULOSE STRUCTURE & FORMATION at NORTH CAROLINA STATE UNIVERSITY – RALEIGH, NC

Principal Investigator: Dr. Candace Haigler

- Execute planned experiments to include collection of data and samples to support research conducted by post-doctoral staff under minimal supervision.
- Quickly learn/master new skills, concepts, and molecular biology techniques in the realm of plant biology.
- Apply newly mastered RNA extraction and qPCR techniques to produce data to be used in a scientific research publication (see below)
- Operate autoclave with respect to laboratory sterilization protocol.
- Obey laboratory regulations and safety in accordance with NCSU Environmental Health & Safety Center guidelines to include proper disposal of biohazardous waste (i.e. transgenic materials) and chemically hazardous substances.

Technical Competencies

DATA ANALYSIS:	DNA sequencing (Vector NTI, Seqman Pro, Benchling), Delta-Delta & High Resolution Melting qPCR
SOFTWARE:	Ariba Spend Management Suite, SAP Portal, MS Office Suite Excel, Powerpoint, Outlook, Access, Word), Evernote, Benchling, Go-To Meeting
OPERATING SYSTEMS:	Windows XP/7/10, OS X Mountain Lion
EQUIPMENT:	Sterilization Autoclaves, Microscopes (Confocal, Dissecting, Axiozoom), Centrifuges (Standard, Superspeed, Ultraspeed), ABI Lightcycler, Thermocyclers, Spectrophotometer

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Publications

Erin Slabaugh, Tess Scavuzzo-Duggan, Arielle Chaves, Liza Wilson, **Carmen Wilson**, Jonathan K Davis, Daniel J Cosgrove, Charles T Anderson, Alison W Roberts, Candace H Haigler; The valine and lysine residues in the conserved FxVTxK motif are important for the function of phylogenetically distant plant cellulose synthases, *Glycobiology*, Volume 26, Issue 5, 1 May 2016, Pages 509–519, <https://doi.org/10.1093/glycob/cwv118>

Volunteer Experience

Dental Assistant

CARE CLINIC – FAYETTEVILLE, NC

8/2008 – 1/2009

- Interview and record patient medical and dental histories and vital signs.
- Expose diagnostic dental x-rays.
- Assisted dentists with tooth extraction procedures.
- Provide postoperative instructions prescribed by dentist.
- Uphold patient privacy through HIPPA & EDI.