# JOHN SMITH

153 Anywhere Avenue • Paterson, NJ 07502 • 973-555-5555 • email@yahoo.com

## LABORATORY SUPPORT • QUALITY ASSURANCE • QUALITY CONTROL

Detail-oriented recent graduate with a track record of well-received research projects in cell and molecular biology, organic chemistry and genetics. Offering "real world" work experience with industry leader Sanofi Pasteur as well as 8+ years as an Asset Investigator for Saks Fifth Ave – allowing me to hone skills in analysis, reporting, documentation, teamwork and in-depth investigations. Skilled in quickly assimilating job requirements, project goals, study benchmarks, data metrics and surpassing expectations.

Project Management • Staff Training • Research • cGMPs • Investigative Procedures • Sampling • Teamwork
Quantitative Surveys • Independent Leadership • Documentation • Source Review • Verification • Compliance
Qiagen QIAamp DNA Mini Kit • Enzyme Linked Immuno-Sorbent Assay • SOPs/Standard Working Instructions
Polymerase Chain Reaction • DNA Electrophoresis • Chi Square Test • Presentations • Administrative Skills

## ACADEMIC RESEARCH/PROJECTS

**MONTCLAIR STATE UNIVERSITY – MONTCLAIR, NJ** **2008-2010**

**Independent Project**
Gathered representative samples and analyzed multiple Essex County oak trees *Quercus Alba* or "White Oak" affected with Bacterial Leaf Scorch, an infectious and chronic disease caused by *Xylella Fastidiosa,* a fastidious, gram-negative, xylem-limited bacterium. Conducted detailed quantitative surveys with samples.

**Key Accomplishments**

- Observed and recorded water transport disruptions in roots, branches and leaves due to large amounts of multiplying bacteria and their by-products.
- Researched previous studies on disease transmission, generally found to be via tree grafting or insects of the *Cercopidae* (Spittlebugs) and *Cicadellidae* (Leafhoppers) families.
- Collaborated with faculty members and peers for advice in samples, testing and results reporting.

**Organic Chemistry II Project:**
Served as a key member of a 4 - person team tasked with identification of an unknown carbonyl compound. Utilized Tollen's Test to eliminate a ketone classification and positively identify the substance as an aldehyde. Defined substance's point and melting point. Utilized traditional lab tools to refine identification including 2,4-Dintrophenylhydrazine reagent, absolute ethanol, 95% alcohol, vaccum filter apparatus, dioxane, 5% silver nitrate 10% aqueous sodium hydroxide, 2M ammonium hydroxide, 5% sodium hydroxide and KI/I2.

**Key Accomplishment**

- Earned an A+ for the entire project, including presentation, group team work and research, reaching an accurate and confirmed conclusion.
- Recognized by the Professor as Best Group Presentation.

**Genetics Hardy-Weinberg Equilibrium Project:**
Collaborated with 2 peers in genotype testing to identify class population of an Alu Insert within a specific DNA locus. Leveraged several tests to clarify and confirm findings including the Qiagen QIAamp DNA Mini Kit, Polymerase Chain Reaction, DNA Electrophoresis and the Chi Square Test.

## EDUCATION

**Bachelor of Science** ~ Biology. Montclair State University, Montclair, NJ

## IN-DEPTH KNOWLEDGE

Current Good Manufacturing Practices (cGMPs) • Genetics, Cell and Molecular Biology
General Chemistry I & II • Organic Chemistry I & II • Mammalian Microanatomy
Cell Physiology • Vision Science • Ecology • Physics I & II • Statistics