

# LEILA DATOO

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## Professional Summary

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Opportunity-driven and detail-oriented scientist with advanced knowledge and experience in analytical chemistry and bioanalysis. Over 8 years of laboratory based experience in drug development, lab automation and technical writing. Familiar with GLP and GMP guidelines. Ability to work independently as well as in a team setting. Repeatedly took on new challenges and delivered creditable and impressive results.

### AREAS OF EXPERTISE

Liquid Chromatography  
Mass Spectrometry  
Solid-phase Extractions

Lab Automation  
Cell Culture  
Bioanalysis

Project Coordinator  
Method Development  
Assay Optimization

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## PROFESSIONAL EXPERIENCE

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### **PathCare Kenya Limited, Nairobi, Kenya**

May 2012 – May 2013

*Kenya's first diagnostic laboratory at the cutting edge of medical diagnostic services, delivering a world class service that ensures the highest quality of medical testing.*

#### Laboratory Research Analyst – Laboratory Technology

- Volunteer-based opportunity working closely with my peers to better understand the medical and diagnostic tools used in Kenya
- Offer scientific advice and training on the various analytical techniques such as UV spectroscopy, FTIR and mass spectroscopy in analyzing samples
- Presented at scientific forums on how automation can increase through-put and reduce cycle time in sample analysis and testing

### **Abbott Laboratories, Chicago, IL**

February 2008 – April 2012

*A science based company specializing in diagnostics, medical devices, nutrition and pharmaceuticals in addressing important health needs of people in more than 150 countries.*

#### Associate Scientist II – Drug Metabolism

- Extensive use of mass spectroscopy and liquid chromatography in the identification, structural elucidation and to quantitate metabolites in a diverse array of in vitro and in vivo studies
- Design and conduct various in vitro assays to understand the metabolic and elimination pathways of a compound
- Optimize and validate various automated in vitro assays on both the Biomek and TECAN automation platforms
- Developed a 384-well metabolic stability assay using the Biomek automation platform that increased throughput by 8-fold and decreased cycle time by 60%
- Method development and analysis on the Agilent and Thermo Scientific mass spectrometers
- Perform routine maintenance on the automated work-flow stations and ensure all documentation is up-to-date
- Analyze, compile and report scientific findings to project teams
- Monitor project activities to ensure projects are completed prior to each milestone
- Involved in bringing new scientific technologies and methodologies to enhance productivity and remain competitive in the automation paradigm
- Data compiling and reporting using electronic templates such as BioELN and Assay Explorer
- Involved in developing electronic lab notebook (ELN) templates for data analysis and capture

Abbott Laboratories, Chicago, IL

May 2011 – April 2012

*A science based company specializing in diagnostics, medical devices, nutrition and pharmaceuticals in addressing important health needs of people in more than 150 countries.*

**Project Coordinator – Discovery Strategy Portfolio Management**

- Act as a liaison between our external collaborators and internal project teams to ensure data is available in a timely fashion
- Manage data generated by external collaborators by making it available in electronic format that can be used by the project teams
- Involved in the development and testing of electronic data templates to capture data
- Communicate with different teams to ensure smooth data flow between the two parties to allow in key decision making processes

University of Minnesota, Minneapolis, MN

January 2005 – December 2007

*A public research university placed in the top 30 out of more than 1000 world-class universities and international research institutions.*

**Graduate Research Assistant – Department of Medicinal Chemistry**

- Design and synthesis of nucleoside phosphoramidates using phosphorus chemistry
- Synthesis and testing of nucleoside analogues as potential antimicrobial agents using ultra-violet spectroscopy
- Evaluate the cytotoxicity of various nucleoside analogues in ovarian, breast and leukaemia cancer cells

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**EDUCATION**

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University of Minnesota, Masters of Science (MS) - Chemistry, 2007 GPA 3.73/4.0

University of Minnesota, Bachelors of Science (BS) - Chemistry & Biochemistry, 2004 GPA 3.45/4.0

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**TECHNICAL SKILLS**

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• Microsoft Office • Microsoft Visio • Xcalibur 2.1 • Analyst AB Sciex • MetLab • ChemDraw • LC/MS ChemStation Software • TECAN Freedom EVOware software • SAMI Workstation EX • Biomek software

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**PRESENTATIONS**

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- Dato, Leila; De Meuse, Michael; Wagner Carston. **Design and Synthesis of 3'-Azido-3'-deoxythymidine Nucleoside Analogues as Potential Anti-microbial Agents.** Abstracts, 42<sup>nd</sup> Midwest Regional Meeting of the American Chemical Society, Kansas City, MO, United States, November 7-10 2007
- Dato, Leila; De Meuse, Michael; Wagner Carston. **Design and Synthesis of 3'-Azido-3'-deoxythymidine Nucleoside Analogues as Potential Anti-microbial Agents.** MRSEC-SURE/Younger Chemists Committee Summer Research Symposium, Minneapolis, MN, United States, August 9 2007

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**ACHIEVEMENTS**

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- Awarded third place for excellence in chemical sciences at the **Material Research Science and Engineering Centre/Younger Chemists Committee Summer Research Symposium**, University of Minnesota, 2007
- Nominated for the Best Teaching Assistant Award, University of Minnesota, 2006
- Presented a poster entitled “**Electrochemical sensors based on Cobalt(II) and Cobalt (III) porphyrins**” at the **Undergraduate Research Opportunity Program, Virginia, 2005**