

# SONJA BARBOOSH

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## Laboratory Technologist

- Demonstrated competency in Innovation
- Advanced computer literacy
- Maintain commitment and a mature work ethics
- Able to identify problems and provide solutions
- Excellent project management skills
- Prioritize work and manage multiple tasks
- Excellent communication and team work skills
- Knowledge of laboratory techniques & experimental tools
- Strategic thinker; critically analyzes issues
- Exudes energy and confidence to excel

## EDUCATION

|                                  |                           |      |
|----------------------------------|---------------------------|------|
| Canadian Equivalency: BSc        | University of Toronto     | 2007 |
| Co-op Program                    | Adult Learning Centre, ON | 2007 |
| Master's Degree in Biotechnology | Sharnia University, India | 2004 |
| Bachelor's Degree in Chemistry   | M.I. University, India    | 2002 |

## CORE COMPETENCIES

### Technical Skills

- Excellent knowledge of the principles and practices of organic and analytical chemistry including quality assurance and quality control (QA/QC)
- Thorough knowledge of Good Laboratory Practice (GLP) and MSDS

### Clinical Work and Research

- Cultured different types of pathogenic bacteria, fungus and Herpes Simplex Virus (HSV)
- Calculated the concentration of different biochemical compounds present in a sample using spectrophotometer
- Conducted biochemical tests to analyze the ingredients present in the plant extract
- Succeeded in finding the correct concentration of aqueous drug needed to kill HSV
- Well versed in Health and safety measures in Clinical works

### Administration and Communication

- Prepared, organized and recorded learning outcomes for biotechnology students
- Instructed groups of undergraduate and graduate students in Biotechnology and Microbiology courses
- Prepared tests ,exams and assisted with the student evaluation and supervised projects of graduate students
- Interacted effectively at various levels with students, staff and biotechnology department of university
- Scheduled lab work and ensured that all staff worked in a safe manner

## RELEVANT EXPERIENCE

### Lab Technician

2007-2008

*Min Analytics Inc (Mississauga, ON)*

- Performed sample preparation for instrumental analysis of toxic organic pollutants (dioxins, PCBs, PAHs, OC pesticides etc.) in a variety of environmental matrices like soil and water samples
- Received multidisciplinary training in extraction and analysis to identify and quantify environmental toxicants such as harmful hydrocarbons from soil and water samples
- Conducted Toxicity Characteristic Leaching Procedure
- Digested both water and soil samples for metal analysis
- Worked with separating funnels, Turbovap and different instruments needed for organic extraction of samples
- Vialled the extracted samples for GC analysis

**Lecturer (Biotechnology)**

2006

*Sharnia College of Arts & Science (India)*

- Taught mixed-age groups of Biotechnology students utilizing advance teaching methods
- Guided students doing Masters in Microbiology with their projects which included study of anti-bacterial effects of certain plants and fungus
- Interpreted and analyzed the protocols to attain positive results for projects
- Prioritized and responded to changing environment
- Operated and maintained laboratory equipment and apparatus and prepared solutions of liquid, reagents and sample formulations

**Coordinator and Lecturer**

2004-2005

*Manipal Centre (India)*

- Maintained grading, progress reports and classroom documentation
- Authored skill and self-esteem enhancement units for high-risk students
- Implemented positive discipline in challenging classes
- Negotiated lab equipment leasing and acquisition, which cut expenditure by 25%
- Managed all departmental operations including staff , lab and library maintenance

**Project Assistant (Microbiology & Virology)**

2004

*Institute Of Preventive Medicine (India)*

- Determined the various biochemically active ingredients present in Aloe barbadensis which shows antimicrobial activity and anti viral activity
- Cultured Vero cell line and Herpes Simplex virus and checked for anti fungal activity of Aloe vera extract.
- Investigated mechanisms of aqueous plant extract action on Herpes Simplex Virus
- Cultured African green monkey cell line for medium needed for virus culture
- Compiled records for analytical studies

**Project Assistant (Immunology & Biochemistry)**

2004

*International Medical College (India)*

- Participated in interdisciplinary research and development projects working with chemical engineers, biologists, microbiologists, agronomists, geologists or other professionals
- Set up and conducted biological, microbiological and biochemical tests and laboratory analyses in support of research
- Applied methods and techniques such as microscopy, chromatography, electrophoresis and spectroscopy
- Assisted in conducting biological, microbiological and biochemical tests and laboratory analyses
- Calculated the concentration of different biochemical compounds present in a sample using spectrophotometer

**PROFESSIONAL DEVELOPMENT**

- Successfully completed Computer-Based Training Program of WHMIS and job-specific health and safety training program
- Completed Data Integrity Certification and Management of System Module at Min Analytics Inc

**ACADEMIC HIGHLIGHTS**

- Achieved positive result against the growth of Herpes Simplex Virus using the aqueous extract of *Aloe barbadensis*  
“...She has excellent theoretical background, active interest in seminars, paper presentation and such other academic activities. She has great potential in research and teaching. She worked extremely well with people in the lab, as a colleague and mentor to some of the junior lab staff”

-S.Kuress, PhD, Research Associate Scientist, National University

References Available Upon Request