

Penelope Petri-Dish
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PROFILE

Multi-tasking: can prioritize many projects and complete them on time in a fast paced environment
Analytical: background in Biological Sciences with experiences in animal and chemical labs
Laboratory: knowledge in bacterial isolation, incubation, cultivation and identification

EDUCATION

Master of Biomedical Technology **Year-Present**
University of Calgary, Calgary, AB

Bachelor of Science, Biology Year
Specialization: Ecology
Dalhousie University, Halifax, NS
• Thesis: *Photosynthesis of Green Algae: Light and Dark Reactions Under The Sea*

RELEVANT COURSES

- **Pharmacology and physiology:** Therapeutic development literature research based study for protease-activated receptors (PAR-2) and business plan
- **Biotechnology business:** Analysis of a biotechnology company by writing a patent analysis, financial analysis and a SWOT analysis
- **Lab animal experience:** Experience handling and injecting (IV, SC, IM) rabbits, rats and mice and abdominal surgery experience and post operative care for rabbits

RESEARCH EXPERIENCE

University of Calgary **Year**
Biomedical Technology Centre Workshop
• **Isolation of mammalian and bacterial DNA;** PCR; gel electrophoresis; Southern blots; isolation of DNA from gel; restriction digests; ligations and transformations
• **Protein; isolation of proteins from mammalian and bacterial DNA;** PAGE; Western blots; immunoassays
• **Bioinformatics;** introductory lectures on bioinformatics resources

University of Calgary **Summer Year**
Biochemistry Research Project
Project: Studied a site specific mutant of β -galactosidase through inhibitor and pH kinetics
• Utilized a spectrophotometer along with the appropriate software for enzymatic assays
• Performed large scale protein isolation and purification
• Operated technical equipment such as the French press, FPLC columns, DEAE columns and Phast gel(SDS-PAGE)

Translational Laboratory, University of Western Ontario **Month-Month Year**
Research Technician
• Evaluated the use of DNA isolated and purified from paraffin embedded tissue samples to identify point mutations
• Designed primers and interpreted sequencing data by using Primer3 and DNASTAR software
• Optimized the working conditions on a thermal cycler to amplify DNA samples for gel extraction and purification

RELATED EXPERIENCE

Maritime Regional Cancer Centre Cancer Clinical Trials Data Entry Clerk

Month-Month Year

- Managed five clinical trials databases which included colorectal and breast cancer databases
- Created and managed the Microsoft Access database for the tumor bank to assist research data
- Prepared patient documentation such as consent forms, sample collection and information collection sheets for phase I – IV colorectal clinical trials
- Evaluated patient information to determine eligibility for specific clinical trials

Canadian Ministry of Agriculture and Food Field Technician/Biosolid Specialist's Assistant

Summer Year

- Collected field samples for soil analysis and plant disease identification for province wide agriculture research studies
- Identified growth stages in corn fields and disease types in soybeans and wheat for agricultural research studies

PROFESSIONAL DEVELOPMENT

- Pharmaceuticals Clinical Trials Investigator Training, Pfizer Pharmaceuticals, Year
- Ethics, Public Policy, and the Pharmaceutical Industry, Society of Toxicology of Canada, Year
- Perspectives on Neuroscience; A symposium on Psychiatry, Toronto, Ontario, Year
- Ethical Conduct for Research Involving Rats, Centre for Healthcare, Ottawa, Ontario, Year
- Structured Clinical Interview, University of Calgary, Year

CERTIFICATIONS

- WHIMIS and Biosafety training, University of Calgary, Year
- St. John's Ambulance First Aid/CPR Level C, Canadian Red Cross, Year
- National Coaching Certification Programs 1, Really Good Athletes Association, Year
- Red Cross Instructors Certificate, Canadian Red Cross, Year

OTHER EXPERIENCE

Canadian Well Logging Society Land Management Assistant

Summer Year

- Implemented a multi-departmental project to decommission abandoned wells and clean up dumping sites to maintain the environmental standard of the area
- Evaluated land management practices of agricultural tenants against the OMAF Best Management Practices to ensure sites were valid

INTERESTS

Running: four times a week, completed a half marathon and triathlon in Nova Scotia in Year

Ultimate Frisbee: team captain of biology team and indoor soccer team since Year

Literature: avid reader of fiction novels and autobiographies

Horses: enjoy the challenge of training and showing equestrian horses