

PEDRO NASCIAMENTO

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QUALIFICATIONS SUMMARY

- Experienced lab technician with expertise in animal surgical procedures
- Post-graduate diploma in animal science and Registered Laboratory Animal Technician (RLAT) from the Canadian Council on Animal Care
- Proficient in molecular and microbiology techniques: gel electrophoresis, DNA and RNA extraction, agarose gel electrophoresis and protein expression and purification
- In-depth knowledge of bio-safety regulations and experienced in training students and researchers on workplace safety
- Published articles in scientific journals demonstrate excellent written communication skills. Meticulous in maintaining accurate records in lab journals

LABORATORY COMPETENCIES

- Quality Assurance & Controls
- Specimen Storage
- Laboratory Safety Procedures
- Wet-Lab expertise
- Molecular Biological Techniques
- Illumina microarray
- Anima Surgery
- High-Throughput
- Database Management

PROFESSIONAL EXPERIENCE

Laboratory Technologist II (Animal Lab/Surgical Technician)
University of Toronto, Faculty of Medicine

2010 – Present

- Conduct and assist in brain microsurgical experiments that demonstrate well-developed surgical skills, such as stereotaxic brain injection/lesioning and cannulation- perfusion
- Developed new anaesthesia technique that led to a change in protocol for surgical procedure for Department of Animal Laboratories
- Ensure laboratory is safe for students and researchers by applying and renewing bio-safety hazard level 2 standards according to the Ministry of Health
- Proficient in molecular techniques including gel electrophoresis (SDS-PAGE and western blot), DNA and RNA extraction, protein expression and purification, agarose gel electrophoresis, PCR (conventional, RT-PCR and Real-time), genotyping, immunofluorescence and confocal microscopy, animal colony management, husbandry and animal handling (ear tagging and ear notching, weaning).
- Train 4th year students on mastering genotyping to map DNA and RNA genotypes in order to meet the requirements of laboratory curriculum
- Maintain animal colony and conduct laboratory molecular biology experiments ranging from genotyping to proteomics

Laboratory & Anatomy Technician II

2007 - 2010

McMaster University, Faculty of Medicine, Hamilton

- Prepared and maintained anatomical specimens for teaching and researching purposes for the entire Division of Anatomy, Department of Surgery
- Estimated supplies needed; prepared purchase requisitions as needed and reduced operating costs of lab by implementing new electrical system that reduced energy consumption at peak periods
- Ensured appropriate inventory of equipment and materials and reduced costs of maintenance by repairing lab equipment and ordering new parts to maintain efficiency
- Kept a hygienic environment by conducting routine examinations of instruments and cleaned them according to industry standards
- Maintained detailed records; containing highly sensitive/confidential information on donated anatomy specimens
- Liaised with hospitals, funeral directors and Faculty of Medicine staff regarding the acquisition and proper disposal or embalming of human remains

Laboratory Technician I

2005 - 2007

McMaster University, Faculty of Medicine, Hamilton

- Set up and conducted chemical experiments, tests and analyses with precision that led to published reports in academic journals for Principle Investigator
- Operated and maintained technologically sophisticated laboratory equipment with precision
- Compiled records and interpreted experimental results that assisted in the success of grant applications for the Laboratory of Medicine and Pathobiology
- Assisted in the development of standards and health and safety measures that ensured the lab was operating according to the Ministry of Health standards

Research Technician

2003 – 2005

University of Toronto, Toronto

- Performed experiments related to neuropathological changes in the MRL mouse model of systemic lupus erythematosus
- Conducted brain micro surgery and subcutaneous pump implantation
- Managed behavioural testing using classical tests and computerized (INBEST) home cages (Observer XT, MedPC, and EthoVision software packages)
- Experienced in immunohistochemistry (tissue extraction, fixation, slicing, staining and assessment using microscope and AxioVision computer software)

EDUCATION**Post-graduate Diploma in Animal Science**, Massey University of Saskatchewan, 2002**Bachelor of Science** (Microbiology & Immunology), University of Toronto, 2000**PROFESSIONAL MEMBERSHIPS**Registered Laboratory Animal Technician (RLAT), Canadian Council on Animal Care
Member, Canadian Association for Laboratory Animal Science (CALAS)**PUBLISHED WORKS**

Alejandro, P.L, S.T. Simpson, P. Nasciamento Regulatory T cells and reproduction: how do they do it? Journal of reproductive immunology, 2009

Alejandro, P.L, S.T. Simpson, P. Nasciamento Glucagon-like peptide-1 synthesis with prohormone convertase 1 gene expression in enteroendocrine GLUTag cells. Endocrinology, 2007