Sonja Ing

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EDUCATION

Ontario Veterinary College [Expected Graduation June 2022]
Guelph, ON Doctor of Veterinary Medicine Candidate

University of Toronto [Graduated Aug 2018]
Toronto, ON MASc
Institute of Biomaterials and Biomedical Engineering
Collaborative Program In Neuroscience
Shoichet Laboratory

University of Toronto [Graduated June 2015]
Toronto, ON B.Sc. (Honours)
Neuroscience and Biology Major; Psychology Minor
Cumulative GPA: 3.90
Junior/Senior GPA: 3.98

Johns Hopkins University [Sept 2009-Dec 2010]
Baltimore, MD Neuroscience Major
Cumulative GPA: 3.85

Havergal College [Graduated June 2009]
Toronto, ON Ontario High School Diploma

WORK EXPERIENCE

Senior Scientist [May 2019-Present]
AmacaThera Lead an interdisciplinary team in the development and commercialization of a sustained release anesthetic product. Prepared regulatory documents to be submitted to the FDA and Health Canada.

Research Assistant [Sept 2015-Aug 2016]
Shoichet Laboratory Provided technical support to the Shoichet research lab including preparation of tissues for histological evaluation and material characterization;
Investigated a novel biomaterial with which to deliver drugs locally for a sustained period of time at the site of general and spinal surgery;
Investigated a novel hydrogel for use as a vitreous substitute.

Executive Assistant [Jan-Aug 2014]
Ontrai Start-up for restaurants online. Contributed to idea development and implementation. Developed and maintained database.

Administrative Assistant [June 2010-Aug 2014]
Markham Ellesmere Medical Clinic Executed transition to electronic patient medical records. Generated cumulative patient profiles. Handled general administrative duties and optimized office procedures.

VOLUNTEER EXPERIENCE

Veterinary Assistant [May 2018-Aug 2018]
Toronto Animal Eye Clinic Provide support to veterinarians and technicians during routine exams and laboratory procedures. Assisted during ocular surgeries.

Veterinary Assistant [June 2017-April 2018]
Yonge-Davenport Pet Hospital
Provide support to veterinarians and technicians during routine exams and laboratory procedures. Assist in examinations by safely restraining animals during vaccinations, blood draws and catheterizations. Perform daily animal care including feeding, watering, walking, and ensuring general well-being of animals.

CAMH Engage Steward [Sept 2015-Aug 2017]
Centre for Addiction and Mental Health
Assist CAMH Engage in developing innovative fundraising initiatives and driving social change by raising awareness and understanding of mental health and addiction.

LEADERSHIP EXPERIENCE

Pharmacology/Anesthesiology Course Representative [Sept 2019-Present]
Ontario Veterinary College
Liaison between veterinary class and course instructors. Responsible for thoroughly understanding the course material, answering student questions and preparing review packages.

Secretary, Class of 2022 [Sept 2018-Present]
Ontario Veterinary College
Responsible for communications between the veterinary Class of 2022 and the Class Council. Facilitate organization of meetings.

ACADEMIC AWARDS

Dr. James A. & Connie P. Dickson Scholarship in Science and Math [2014, 2015]
University College

Dean's List [2012-2015]
University of Toronto

Dean's List [2010]
Johns Hopkins University

RESEARCH CONTRIBUTIONS

(1) Shoichet, M., Cooke, M.J., Ing, S. (2019) Sustained Release Local Anesthetic Hydrogel Composition. U.S. Provisional Patent 10207506-2USPR.
(2) Cooke, M. J., Ing, S. T., Hanna, S. A., Chang, T. N., Ngai, J. W., Zhang, J., Gordon, T., Borschel, G. H., Shoichet, M. S. (2019). Hyaluronan-based hydrogel achieves extended nerve block with local, sustained release of bupivacaine. Submitted to Plast. Reconstr. Surg.
(3) Ing, S. T., Cooke, M. J., Tator, C. H., Shoichet, M. S. (Apr 2018). A Biomaterial for the Prevention of Epidural Fibrosis. Society for Biomaterials Annual Meeting; Atlanta, USA (International Conference, Oral Presentation)
(4) Ing, S. T., Cooke, M. J., Tator, C. H., Shoichet, M. S. (2017). A Biomaterial for the Prevention of Epidural Fibrosis. Canadian Spinal Cord Injury and Ontario Spinal Cord Injury Research Network Meeting, Toronto, Canada (Masters Work, National Conference, Poster Presentation)

ADDITIONAL SKILLS

Veterinary Experience
Proficient in safe handling, restraint and physical examination of dogs, cats, cows, horses, sheep. Capable of performing routine procedures, including vaccination, blood draws and catheterization. Surgically trained.

Animal Research Experience
Proficient with rat handling and behaviour testing (blood draws, von Frey filament testing, cold plantar analysis, Hargreaves assay, CatWalk gait analysis);
Experienced with rabbit handling and behaviour testing (blood draws, Tono-Pen eye pressure measurements);
Surgery trained; capable of performing surgeries in rat models of wound incision and sciatic nerve block.

Research Skills	Proficient with drug release assays, swelling assays, rheology, LC-MS/MS, histology (tissue processing, slicing, staining, analysis), and statistical analysis (GraphPad Prism, Excel).
Interests	Reading, music, rock climbing

References available upon request.