

GRADUATE AND POSTDOCTORAL STUDIES

MCGILL UNIVERSITY



FINAL ORAL EXAMINATION
FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY

OF

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DEPARTMENT FOOD SCIENCE AND AGRICULTURAL CHEMISTRY

**NOVEL CHYMOTRYPSINS FROM *LOLIGO OPALESCENS* AND
SEPIOTEUTHIS LESSONIANA: ISOLATION, PURIFICATION AND
MOLECULAR CHARACTERIZATION**

DATE: Friday, February 26, 2016

TIME: 1:15 p.m.

**RAYMOND BUILDING, Room R2-013
McGill University, Macdonald Campus**

COMMITTEE

ABSTRACT

Chymotrypsins are widely distributed among living species and have found widespread use in different industrial applications. However, until the last two decades, most studies on chymotrypsin have been restricted to mammalian species with few reported works on marine invertebrates. The high catalytic activity of some aquatic enzymes at low temperatures, coupled with high pH and the relatively low thermal stability makes them robust in certain industrial applications where cold temperatures are preferred. In this study, chymotrypsin was purified to homogeneity and characterized from the viscera of two squid species (*Loligo opa*

longer than its vertebrate analogs. A search of the non

CURRICULUM VITAE

AWARDS