

CONTENT

CHAPTER 1 7

General introduction

CHAPTER 2 17

Ultrastructural localization of intracellular calcium during spermatogenesis of sterlet (*Acipenser ruthenus*)

CHAPTER 3 27

Subcellular distribution of calcium during spermatogenesis of zebrafish, *Danio rerio*

CHAPTER 4 41

Subcellular localization of calcium deposits during zebrafish (*Danio rerio*) oogenesis

CHAPTER 5 51

General discussion 53

English summary 57

Czech summary 59

Acknowledgements 61

List of publications 62

Training and supervision plan during study 64

Curriculum vitae 65