

CONTENT

CHAPTER 1

7

General introduction

CHAPTER 2

31

The *in vitro* effect of temperature on motility and antioxidant response of spermatozoa in different freshwater fish species

CHAPTER 3

51

Analysis of common carp *Cyprinus carpio* sperm motility and lipid composition using different *in vitro* temperatures

CHAPTER 4

61

In vitro activation of Eurasian burbot *Lota lota* spermatozoon motility in seminal fluid at different temperatures

CHAPTER 5

73

General discussion

75

English summary

83

Czech summary

84

Acknowledgements

85

List of publications

86

Training and supervision plan during study

89

Curriculum vitae

90