

# CONTENT

## CHAPTER 1

7

General Introduction

## CHAPTER 2

29

Optimization of sperm irradiation protocol for induced gynogenesis in Siberian sturgeon, *Acipenser baerii*

## CHAPTER 3

43

Chemical induction of haploid gynogenesis in sterlet *Acipenser ruthenus*

## CHAPTER 4

55

Influence of photoreactivation on gynogenesis induction in sterlet, *Acipenser ruthenus*

## CHAPTER 5

63

Use of flow cytometry to assess the success rate of interspecific gynogenesis induction and to separate nongynogenetic progeny of sturgeon

## CHAPTER 6

73

Optimization of the tetraploidization protocol in sterlet, *Acipenser ruthenus*

## CHAPTER 7

83

General Discussion

83

English Summary

87

Czech Summary

91

Acknowledgements

91

List of Publications

92

Training and Supervision Plan during Study

93

*Curriculum Vitae*

94