

CONTENT

CHAPTER 1

11

- 1.1. General Introduction 13
- 1.2. Residual pharmaceutically active compounds (PhACs) in aquatic environment: status, toxicity and kinetics 15

CHAPTER 2

35

- Ecotoxicological effects of short-term exposure to a human pharmaceutical Verapamil in juvenile rainbow trout (*Oncorhynchus mykiss*) 37

CHAPTER 3

45

- Chronic toxicity of Verapamil on juvenile rainbow trout (*Oncorhynchus mykiss*): effects on morphological indices; hematological parameters and antioxidant responses 47

CHAPTER 4

59

- Hepatic proteome sensitivity in rainbow trout after chronically exposed to a human pharmaceutical Verapamil 61

CHAPTER 5

75

- Effects of exposure to sublethal propiconazole on intestine-related biochemical responses in rainbow trout, *Oncorhynchus mykiss* 77

CHAPTER 6

83

- Effect of human pharmaceutical Carbamazepine on the quality parameters and oxidative stress in common carp (*Cyprinus carpio* L.) spermatozoa 85

General Discussion	93
English Summary	103
Czech Summary	105
Acknowledgements	107
List of Publications	108
Training and Supervision Plan during Study	111
Curriculum Vitae	112