

CONTENT

CHAPTER 1

7

General introduction

CHAPTER 2

25

Females bet on the known: Crayfish females recognize and prefer males from familiar population, males are not pick

CHAPTER 3

39

Still waters run deep: marbled crayfish dominates over red swamp crayfish in agonistic interactions

CHAPTER 4

53

Oxazepam alters the behaviour of crayfish at diluted concentrations, Venlafaxine does not

CHAPTER 5

65

Effects of S-metolachlor and its degradation product metolachlor OA on marbled crayfish (*Procambarus virginalis*)

CHAPTER 6

77

General discussion

79

English summary

89

Czech summary

91

Acknowledgements

93

List of publications

94

Training and supervision plan during study

96

Curriculum vitae

97