

Table of contents

General introduction	13
Chapter 1	21
A Worldwide Molecular Phylogeny provides New Insight on Cryptic Diversity within the Moonworts (<i>Botrychium</i> s.s., Ophioglossaceae)	
Chapter 2	67
Ploidy Level and Genome Size Variation in the Homosporous Ferns <i>Botrychium</i> s.l. (Ophioglossaceae)	
Chapter 3	87
Rapid Allopolyploid Radiation of Moonwort Ferns (<i>Botrychium</i> ; Ophioglossaceae) revealed by Pacbio Sequencing of Homologous and Homeologous Nuclear Regions	
Chapter 4	117
Dispersal and Diversification in Ancestral Vascular Plants	
Chapter 5	149
Recent Postglacial Recolonization from <i>In Situ</i> Survival and Intense Gene Flow within Natural Populations of the Alpine Fern <i>Botrychium lunaria</i> (Ophioglossaceae) revealed by ddRAD Sequencing	
Conclusions and perspectives	177
Extra-contributions to the project	181
Curriculum vitae	183