TABLE OF CONTENTS

Sr. No.	Contents	Page no.
1.	Acknowledgements	i
2.	List of Abbreviations	iii
3.	Chapter 1: Introduction	1
4.	Chapter 2: Materials and Methods	24
5.	Chapter 3 : Jagged1 overexpression rescues muscle function in a week-old dystrophic zebrafish larva	39
6.	Chapter 4: The aspects of DMD pathology mitigated by the Jagl OE in the week-old zebrafish larvae	62
7.	Chapter 5: Preliminary Studies on Immortalized Myoblast Cultures Treated with Mini-Jag1-Peptide Recapitulate the Temporal Effects of Jagged1 Overexpression	75
8.	Chapter 6 : Transcriptomics analysis of Escaper and Multi-Omics analysis of -mouse, golden retriever models and DMD patient data points to glycolytic defect	93
9.	Chapter 7: Summary	107
10.	Chapter 8: Bibliography	111
11.	Appendix-I	151
12.	Appendix-II	170