

# Studies on the Crystal Structure and Molecular Function of XXXXX

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# Abstract

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# Contents

<b>Abstract</b>	i
<b>Acknowledgements</b>	ii
<b>Contents</b>	iii
<b>Chapter 1 Introduction</b>	1
1.1 The Machinery of pre-mRNA Splicing	
1.2 Structural Studies of Protein/RNA Complexes	
<b>Chapter 2 Materials and Methods</b>	28
2.1 Construction of an <i>E.coli</i> Overexpression System	
2.2 Purification	
2.3 Crystallisation	
2.4 Data Collection	
2.5 ○○○○○○○○○○○○	
2.6 ○○○○○○○○○○○○	
<b>Chapter 3 Results</b>	47
3.1 ○○○○○○○○○○○○	
3.2 ○○○○○○○○○○○○	
3.3 ○○○○○○○○○○○○	
<b>Chapter 4 Discussion</b>	80
4.1 ○○○○○○○○○○○○	
4.2 ○○○○○○○○○○○○	
4.3 ○○○○○○○○○○○○	
<b>References</b>	110

# Chapter 1 Introduction

## 1.1 The Machinery of pre-mRNA Splicing

As the genetic information is spread over genome as introns divided by exons in eukaryotic cells, a process called pre-mRNA splicing is essential for production of functional proteins. The pre-mRNA splicing is, however, not merely a process where unwanted fragments are removed but also one where expression of the proteins gets regulated through various schemes such as alternative splicing.

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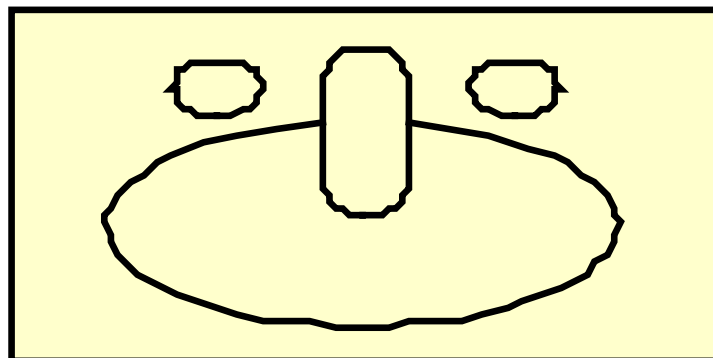
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Fig 1.1 Schematic diagram of the pre-mRNA splicing.

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