

# Plan for Thesis

Benjamin Weigel

5th December, 2014



# Contents

<b>1</b>	<b>General / Overall</b>	<b>5</b>
1.1	Introduction / Questions . . . . .	5
1.2	Methods . . . . .	5
1.3	Results . . . . .	5
1.4	Conclusion . . . . .	5
1.5	Discussion . . . . .	5
<b>2</b>	<b>MT whole cell screening</b>	<b>7</b>
2.1	Introduction . . . . .	7
2.2	Plan behind system → . . . . .	7
2.3	Cloning → . . . . .	7
2.4	Experimental . . . . .	7
2.5	Discussion / Conclusion . . . . .	7
<b>3</b>	<b>PFOMT / COMT?</b>	<b>9</b>
3.1	Introduction OMTS (cation dependent and independent) . . . . .	9
3.2	PFOMT ITC ? . . . . .	9
3.3	COMT ITC? . . . . .	9
3.4	Conclusions Binding etc . . . . .	9
3.5	Discussion . . . . .	9
<b>4</b>	<b>Xtallization</b>	<b>11</b>
4.1	Intro/Question/Previous work . . . . .	11
4.2	Screening for Xtallization conds . . . . .	11
4.3	Structure Solution . . . . .	11
4.4	Implications of new structure . . . . .	11
4.5	Discussion . . . . .	11
<b>5</b>	<b>SOMT</b>	<b>13</b>
5.1	Introuction / Literature . . . . .	13
5.2	Expression (systems) . . . . .	13
5.3	Refolding . . . . .	13
5.4	N. benthamiana . . . . .	13
5.5	Discussion (Activity Test ...) . . . . .	13



# Chapter 1

## General / Overall

1.1 Introduction / Questions

1.2 Methods

1.3 Results

1.4 Conclusion

1.5 Discussion



## Chapter 2

# MT whole cell screening

2.1 Introduction

2.2 Plan behind system →

2.3 Cloning →

2.4 Experimental

2.5 Discussion / Conclusion





## Chapter 3

# PFOMT / COMT?

- 3.1 Introduction OMTS (cation dependent and independent)
- 3.2 PFOMT ITC ?
- 3.3 COMT ITC?
- 3.4 Conclusions Binding etc
- 3.5 Discussion



## Chapter 4

# Xtallization

- 4.1 Intro/Question/Previous work
- 4.2 Screening for Xtallization conds
- 4.3 Structure Solution
- 4.4 Implications of new structure
- 4.5 Discussion



## Chapter 5

# SOMT

5.1 Introuction / Literature

5.2 Expression (systems)

5.3 Refolding

5.4 N. benthamiana

5.5 Discussion (Activity Test ...)