

## TABLE OF APPENDIX

	<i>Page</i>
<b>Appendix 1.</b> Pre-Research Instruments Analysis of Students' Difficulties at the time of learning biotechnology .....	81
<b>Appendix.2.</b> Needs analysis interview guide sheet with Unimed 2018 students who have carried out Biotechnology courses.....	82
<b>Appendix 3.</b> Instruments for analyzing the use of biotechnology books for students.....	83
<b>Appendix 4.</b> Digital pocket book display .....	86
<b>Appendix 5.</b> the results of the validity of the instrument device by the validator.....	88
<b>Appendix 6.</b> Result of the validation of the biotechnology material digital pocket book by material experts .....	89
<b>Appendix 7.</b> Validation results of the biotechnology material digital pocket book by media experts .....	90
<b>Appendix 8.</b> Research Permit .....	94
<b>Appendix 10.</b> Research reply .....	98
<b>Appendix 11.</b> small group student response data recapitulation .....	94
<b>Appendix 12.</b> Large group student response instrument .....	102
<b>Appendix 13.</b> RPS Bioteknologi 1 .....	105
<b>Appendix 14.</b> Soal instrument hasil belajar .....	106
<b>Appendix 15.</b> Student Name List .....	108
<b>Appendix 16.</b> Soal instrument hasil belajar.....	110
<b>Appendix.17.</b> data SAV Appendix.17 data SAV .....	112
<b>Appendix 18.</b> Homogenitas .....	115

<b>Appendix 19.</b> T test .....	116
<b>Appendix 20.</b> Dokumentasi .....	119

