

## List of Table

	<i>Page</i>
<b>Table 2.1.</b> Source of DNA Barcode ((D. A. Rahayu & Jannah, 2019) .....	11
<b>Table 3.1.</b> Content/material validation questionnaire grid .....	21
<b>Table 3.2.</b> Learning approach validation questionnaire grid.....	22
<b>Table 3.3.</b> Lecturer response questionnaire grid .....	23
<b>Table 3.4.</b> Grid of student response questionnaires on small group tests.....	24
<b>Table 3.5.</b> Grid of Student Response Questionnaires on Big Group Tests .....	24
<b>Table 3.6</b> Grid of Test Instrument about DNA Barcoding in Insect Topics .....	25
<b>Table 3.7.</b> Grid of pre-test and post-test validation .....	27
<b>Table 3.8.</b> Assessment criteria item instrument using Linkert scale .....	28
<b>Table 3.9.</b> Material/content expert validation and lecturer's respond criteria.....	29
<b>Table 3.10.</b> Learning approach expert validation criteria.....	30
<b>Table 3.11</b> Criteria for the response of students in the small group test .....	31
<b>Table 3.12</b> Criteria for the response of students in the big group test.....	31
<b>Table 3.13.</b> Interprets N-Gain.....	33
<b>Table 4.1.</b> Results of the validation of student worksheets by material/content experts.....	39
<b>Table 4.2.</b> Suggestions for improving student worksheets by material/content experts.....	40
<b>Table 4.3.</b> Results of the validation of student worksheets by learning approach experts.....	41
<b>Table 4.4.</b> Suggestions for improving student worksheets by learning approach experts.....	42
<b>Table 4.5.</b> Response results by the course lecturer.....	43
<b>Table 4.6.</b> Student response by a small group test .....	44
<b>Table 4.7.</b> Student response by a big group test .....	45
<b>Table 4.8.</b> The results of the normality test on the pretest-posttest data of the control and experimental classes .....	46
<b>Table 4.9.</b> The results of the homogeneity test on the pretest-posttest data of the control and experimental classes .....	47

<b>Table 4.10.</b> Descriptive data of learning outcome in DNA Barcoding topic .....	48
<b>Table 4.11.</b> Paired t-test result.....	48
<b>Table 4.12.</b> N-Gain score test Result.....	48

