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## LAMPIRAN

### 1. Uji ANOVA dan Tukey HSD Tinggi Tanaman

#### Between-Subjects Factors

	Value Label	N
perlakuan 1	S0P0	10
perlakuan 2	S0P12.5	10
perlakuan 3	S0P25	10
perlakuan 4	S12.5P0	10
perlakuan 5	S12.5P12.5	10
perlakuan 6	S12.5P25	10
perlakuan 7	S25P0	10
perlakuan 8	S25P12.5	10
perlakuan 9	S25P25	10
ulangan 1	ulangan 1	9
ulangan 2	ulangan 2	9
ulangan 3	ulangan 3	9
ulangan 4	ulangan 4	9
ulangan 5	ulangan 5	9
ulangan 6	ulangan 6	9
ulangan 7	ulangan 7	9
ulangan 8	ulangan 8	9
ulangan 9	ulangan 9	9
ulangan 10	ulangan 10	9

#### tinggi tanaman (cm)

	perlakuan	N	Subset		
			1	2	3
Tukey HSD <sup>a</sup>	S25P12.5	10	42.7000		
	S0P12.5	10	43.1000		
	S25P25	10	44.7000		
	S12.5P25	10	46.1000		
	S0P25	10	49.5000	49.5000	
	S12.5P12.5	10	51.5000	51.5000	
	S12.5P0	10		64.8000	64.8000
	S25P0	10		64.9000	64.9000
	S0P0	10			81.4000
	Sig.		.805	.137	.082

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 152,350.

#### Levene's Test of Equality of Error Variances<sup>a</sup>

Dependent Variable:tinggi tanaman (cm)

F	df1	df2	Sig.
	89	0	

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + perlakuan + ulangan

#### Tests of Between-Subjects Effects

Dependent Variable:tinggi tanaman (cm)

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	14729.678 <sup>a</sup>	17	866.452	5.687	.000
Intercept	265364.100	1	265364.100	1.742E3	.000
perlakuan	14073.000	8	1759.125	11.547	.000
ulangan	656.678	9	72.964	.479	.884
Error	10969.222	72	152.350		
Total	291063.000	90			
Corrected Total	25698.900	89			

a. R Squared = ,573 (Adjusted R Squared = ,472)

## 2. Uji ANOVA dan Tukey HSD Jumlah Daun Tanaman

### Between-Subjects Factors

	Value Label	N
perlakuan 1	S0P0	10
2	S0P12.5	10
3	S0P25	10
4	S12.5P0	10
5	S12.5P12.5	10
6	S12.5P25	10
7	S25P0	10
8	S25P12.5	10
9	S25P25	10
ulangan 1	ulangan 1	9
2	ulangan 2	9
3	ulangan 3	9
4	ulangan 4	9
5	ulangan 5	9
6	ulangan 6	9
7	ulangan 7	9
8	ulangan 8	9
9	ulangan 9	9
10	ulangan 10	9

### daun

	perlakuan	N	Subset 1
Tukey HSD <sup>a</sup>	S25P25	10	1.7510E2
	S0P12.5	10	1.9330E2
	S25P12.5	10	1.9580E2
	S12.5P12.5	10	2.0200E2
	S12.5P0	10	2.0490E2
	S25P0	10	2.0590E2
	S0P25	10	2.0860E2
	S12.5P25	10	2.1660E2
	S0P0	10	2.4100E2
	Sig.		.126

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2723,628.

a. Uses Harmonic Mean Sample Size = 10,000.

### Levene's Test of Equality of Error Variances<sup>a</sup>

Dependent Variable:daun

F	df1	df2	Sig.
.	89	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + perlakuan + ulangan

### Tests of Between-Subjects Effects

Dependent Variable:daun

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	80805.156 <sup>a</sup>	17	4753.244	1.745	.054
Intercept	3774873.600	1	3774873.600	1.386E3	.000
perlakuan	25685.200	8	3210.650	1.179	.324
ulangan	55119.956	9	6124.440	2.249	.028
Error	196101.244	72	2723.628		
Total	4051780.000	90			
Corrected Total	276906.400	89			

a. R Squared = ,292 (Adjusted R Squared = ,125)



### 3. Uji ANOVA dan Tukey HSD Berat Umbi Tanaman

#### Tests of Between-Subjects Effects

Dependent Variable: total (gram)

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	263636.833 <sup>a</sup>	17	15508.049	2.468	.004
Intercept	2555302.500	1	2555302.500	406.579	.000
perlakuan	134437.000	8	16804.625	2.674	.012
ulangan	129199.833	9	14355.537	2.284	.026
Error	452511.667	72	6284.884		
Total	3271451.000	90			
Corrected Total	716148.500	89			

a. R Squared = ,368 (Adjusted R Squared = ,219)

#### total (gram)

		N	Subset	
perlakuan			1	2
Tukey HSD <sup>a</sup>	S0P0	10	1.0870E2	
	S0P12.5	10	1.3290E2	1.3290E2
	S0P25	10	1.4910E2	1.4910E2
	S25P0	10	1.4990E2	1.4990E2
	S25P12.5	10	1.6020E2	1.6020E2
	S25P25	10	1.6130E2	1.6130E2
	S12.5P0	10	2.0610E2	2.0610E2
	S12.5P12.5	10	2.1550E2	2.1550E2
	S12.5P25	10		2.3280E2
	Sig.		.081	.128

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 6284,884.

a. Uses Harmonic Mean Sample Size = 10,000.

#### 4. Uji ANOVA dan Tukey HSD Kadar Klorofil Tanaman

##### Between-Subjects Factors

		Value Label	N
perlakuan	1	S0P0	3
	2	S0P12.5	3
	3	S0P25	3
	4	S12.5P0	3
	5	S12.5P12.5	3
	6	S12.5P25	3
	7	S25P0	3
	8	S25P12.5	3
	9	S25P25	3
ulangan	1	ulangan 1	9
	2	ulangan 2	9
	3	ulangan 3	9

##### total (mg/g)

	perlakuan	N	Subset	
			1	2
Tukey HSD <sup>a</sup>	S12.5P0	3	22.8367	
	S12.5P25	3	24.8900	
	S12.5P12.5	3	25.0433	25.0433
	S0P0	3	27.5667	27.5667
	S25P0	3	27.8600	27.8600
	S0P12.5	3	28.5467	28.5467
	S25P12.5	3	29.5333	29.5333
	S25P25	3	30.4933	30.4933
	S0P25	3		33.4667
	Sig.		.097	.054

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 8,612.

##### Levene's Test of Equality of Error Variances<sup>a</sup>

Dependent Variable: total  
(mg/g)

F	df1	df2	Sig.
.	26	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + perlakuan +  
ulangan

##### Tests of Between-Subjects Effects

Dependent Variable: total (mg/g)

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	252.630 <sup>a</sup>	10	25.263	2.934	.027
Intercept	20872.796	1	20872.796	2.424E3	.000
perlakuan	251.061	8	31.383	3.644	.013
ulangan	1.569	2	.785	.091	.913
Error	137.788	16	8.612		
Total	21263.214	27			
Corrected Total	390.418	26			

a. R Squared = ,647 (Adjusted R Squared = ,426)



5. Rerata tinggi tanaman kentang kultivar Granola umur 10 minggu hasil perlakuan sitokinin dan paklobutrazol.

Perlakuan	Sitokinin			Rerata
Paklobutrazol	0 ppm	12,5 ppm	25 ppm	
0 ppm	81,4 <sup>c</sup>	64,8 <sup>bc</sup>	64,9 <sup>bc</sup>	70,36
12,5 ppm	43,1 <sup>a</sup>	51,5 <sup>ab</sup>	42,7 <sup>a</sup>	45,76
25 ppm	49,5 <sup>ab</sup>	46,1 <sup>a</sup>	44,7 <sup>a</sup>	46,76
	58	54,13	50,76	+

Keterangan :

\*Angka yang diikuti huruf yang berbeda menunjukkan beda nyata menurut uji lanjutan Tukey HSD pada taraf signifikansi  $\alpha = 5\%$  ( $n=10$ ). Tanda (+) menunjukkan adanya interaksi pengaruh perlakuan sitokinin dan paklobutrazol berdasarkan uji GLM (*Generalized Linear Model*).

6. Rerata jumlah daun tanaman kentang (*Solanum tuberosum* L.) umur 10 minggu hasil perlakuan sitokinin dan paklobutrazol.

Perlakuan	Sitokinin			Rerata
Paklobutrazol	0 ppm	12,5 ppm	25 ppm	
0 ppm	241 <sup>a</sup>	204,9 <sup>a</sup>	205,9 <sup>a</sup>	217,26
12,5 ppm	193,3 <sup>a</sup>	202 <sup>a</sup>	195,8 <sup>a</sup>	197,03
25 ppm	208,6 <sup>a</sup>	212,6 <sup>a</sup>	175,1 <sup>a</sup>	198,76
	214,3	206,5	192,26	-

Keterangan :

\*Angka yang diikuti huruf yang berbeda menunjukkan beda nyata menurut uji lanjutan Tukey HSD pada taraf signifikansi  $\alpha = 5\%$  ( $n=10$ ). Tanda (-) menunjukkan tidak adanya interaksi pengaruh perlakuan sitokinin dan paklobutrazol berdasarkan uji GLM (*Generalized Linear Model*).

7. Rerata bobot umbi tanaman kentang (*Solanum tuberosum* L.) umur 10 minggu hasil perlakuan sitokinin dan paklobutrazol.

Perlakuan	Sitokinin			Rerata
Paklobutrazol	0 ppm	12,5 ppm	25 ppm	
0 ppm	108,7 <sup>a</sup>	206,1 <sup>ab</sup>	149,9 <sup>ab</sup>	154,9
12,5 ppm	132,9 <sup>a</sup>	195,5 <sup>ab</sup>	160,2 <sup>ab</sup>	162,86
25 ppm	149,1 <sup>ab</sup>	232,8 <sup>b</sup>	161,3 <sup>ab</sup>	181,06
	130,23	211,46	157,13	+

Keterangan :

\*Angka yang diikuti huruf yang berbeda menunjukkan beda nyata menurut uji lanjutan Tukey HSD pada taraf signifikansi  $\alpha = 5\%$  (n=10). Tanda (+) menunjukkan adanya interaksi pengaruh perlakuan sitokinin dan paklobutrazol berdasarkan uji GLM (*Generalized Linear Model*).

8. Rerata kadar klorofil tanaman kentang (*Solanum tuberosum* L.) umur 10 minggu hasil perlakuan sitokinin dan paklobutrazol.

	Sitokinin			Rerata
Paklobutrazol	0 ppm	12,5 ppm	25 ppm	
0 ppm	27,57 <sup>ab</sup>	22,84 <sup>a</sup>	27,86 <sup>ab</sup>	26,09
12,5 ppm	28,55 <sup>ab</sup>	25,04 <sup>ab</sup>	29,53 <sup>ab</sup>	27,70
25 ppm	33,47 <sup>b</sup>	24,89 <sup>a</sup>	30,49 <sup>ab</sup>	29,61
	29,86	24,25	29,29	+

Keterangan :

\*Angka yang diikuti huruf yang berbeda menunjukkan beda nyata menurut uji lanjutan Tukey HSD pada taraf signifikansi  $\alpha = 5\%$  (n=10). Tanda (+) menunjukkan adanya interaksi pengaruh perlakuan sitokinin dan paklobutrazol berdasarkan uji GLM (*Generalized Linear Model*).

9. Hasil estimasi tingkat ekspresi gen StBEL5 pada bagian daun tanaman kentang  
(*Solanum tuberosum* L.)

Perlakuan	Konsentrasi Ubiquitin	Konsentrasi StBEL5	Tingkat Ekspresi
<b>S0P0</b>	3045,722	33098,933	10,867351
<b>S0P12,5</b>	2913,043	36670,347	12,588330
<b>S0P25</b>	3136,904	38518,054	12,279003
<b>S12,5P0</b>	4125,611	33347,154	8,0829613
<b>S12,5P12,5</b>	4116,943	34228,690	8,3141035
<b>S12,5P25</b>	3437,853	39177,054	11,395790
<b>S25P0</b>	3350,665	39104,983	11,670813
<b>S25P12,5</b>	3248,148	32422,539	9,9818540
<b>S25P25</b>	3979,328	32395,024	8,1408278

10. Hasil estimasi tingkat ekspresi gen StBEL5 pada batang tanaman kentang  
(*Solanum tuberosum* L.)

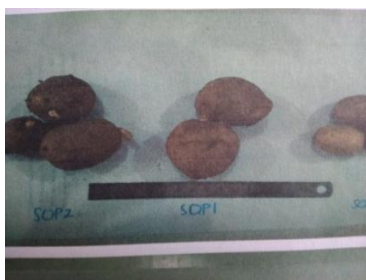
Perlakuan	Konsentrasi Ubiquitin	Konsentrasi StBEL5	Tingkat Ekspresi
<b>S0P0</b>	2173,534	37265,853	17,145282
<b>S0P12,5</b>	1893,779	35618,154	19,807978
<b>S0P25</b>	1770,603	39282,489	22,18594
<b>S12,5P0</b>	1962,854	42721,075	21,764775
<b>S12,5P12,5</b>	1839,401	35301,811	19,192015
<b>S12,5P25</b>	1660,566	40894,882	24,627074
<b>S25P0</b>	2207,854	41682,823	18,879338
<b>S25P12,5</b>	2327,174	35220,054	15,134259
<b>S25P25</b>	1914,259	38960,317	20,352688

## 11. Foto-Foto Penelitian

### a. Pengujian kadar klorofil



### b. Perbandingan hasil umbi antar perlakuan



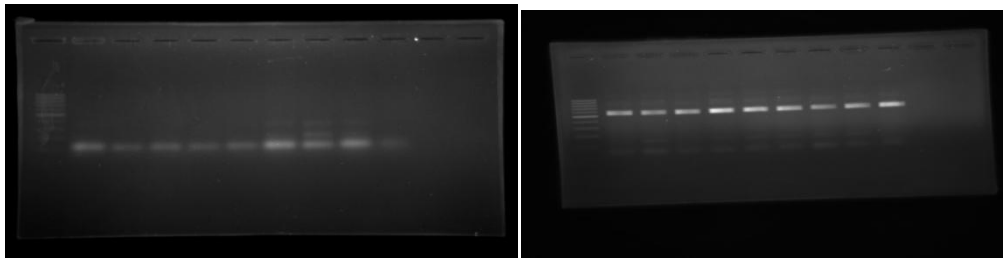
### c. Foto Umbi Saat Panen



#### d. Foto Penanaman Tanaman Kentang



#### a. Hasil PCR



#### b. Analisa software Image J

