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LAMPIRAN

LAMPIRAN 1

Komposisi Media Vacint and Went

Tabel 1 stok garam-garam anorganik pada tiap larutan stok media VW yang digunakan dalam pembuatan media kultur jaringan tanaman.

| Nama Stok | Nama Senyawa | Jumlah (g/L) |
|-----------|---|--------------|
| Stok A | $(\text{NH}_4)_2 \text{SO}_4$ | 500 |
| Stok B | KNO_3 | 525 |
| Stok C | $\text{Ca}_3(\text{PO}_4)_2$ | 200 |
| Stok D | KH_2PO_4 | 250 |
| | MgSO_4 | 250 |
| Stok E | $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ | 28 |
| | $\text{Fe}(\text{EDTA})$ | 37 |
| Stok F | $\text{MnSO}_4 \cdot 7\text{H}_2\text{O}$ | 7,5 |

Tabel 2. Stok Vitamin dan Zat organik pada media MS

| Stok | Bahan | Jumlah (g/L) |
|------|---------|--------------|
| | Myo-ino | 0,1 |

| | | |
|---------------------|------------------------------------|----------------|
| Vi ta m in | sito l | |
| | Pyr ido xin e- HC L | 0, 00 05 |
| | Thi ami ne- HC L | 0, 00 01 |
| | Nic oti nic - aci d | 0, 00 05 |
| | Gly cin e | 0, 00 2 |

Keterangan :

Larutan stok yang telah ditimbang dilarutkan dengan aquades 1000ml, aduk menggunakan magnetic stirrer dan diambil 10 ml tiap pembuatan media 1 L.

LAMPIRAN 2.

Pembuatan Sari ubi kayu dan sari kedelai

Sari ubi kayu

1. Timbang ubi kayu sebanyak 500 gram, kemudian bersihkan dan cuci ubi kayu.
2. Masukkan 500 gram ubi kayu kedalam blender dan tambahkan air sebanyak 500 ml.
3. Setelah halus Saring sari ubi kayu menggunakan kertas saring.
4. Timbang ampas ubi kayu.

Cara menghitung konsentrasi sari ubi kayu:

- 500 gram ubi + 500 ml air disaring dan diperoleh 1050 ml sari.
- Berat ampas 120 gr (120%)
- 500 grm – 120 gram = 380 grm → 1050 ml

$$380 \% \rightarrow 1050 \text{ ml}$$

$$M1.V1 = M2.V2$$

$$500.V1 = 380.1050$$

$$V1 = \frac{380.1050}{500}$$

$$= 798 \text{ ml} \rightarrow \text{larutan induk}$$

- Uapkan sari ubi kayu kedalam lemari es dengan volume awal 1050 ml sampai mencapai volume 798 ml.
- 0 % sebagai perlakuan kontrol
- 5% → mengambil sari ubi kayu sebanyak 50 ml dimasukkan ke dalam media 1000 ml.
- 10 % → mengambil sari ubi kayu sebanyak 100 ml dimasukkan ke dalam media 1000 ml.
- 15 % → mengambil sari ubi kayu sebanyak 150 ml dimasukkan kedalam media 1000 ml.

Sari Kedelai

1. Timbang kedelai sebanyak 500 gram, cuci kedelai dan rendam selama 30 menit.
2. Masukkan 500 gram kedelai kedalam blender dan tambahkan air sebanyak 500 ml.
3. Setelah halus Saring sari kedelai menggunakan kertas saring.
4. Timbang ampas kedelai.

Cara menghitung konsentrasi sari kedelai:

- 500 gram kedelai + 500 ml air disaring dan diperoleh 1000 ml sari.
- Berat ampas 200 gr (200%)
- 500 grm – 200 gram = 300 grm → 1000 ml

$$300 \% \rightarrow 1000 \text{ ml}$$

$$M1.V1 = M2.V2$$

$$500.V1 = 300.1000$$

$$V1 = \frac{300.1000}{500}$$

= 600 ml → larutan induk

- Uapkan sari ubi kayu kedalam lemari es dengan volume awal 100 ml sampai mencapai volume 600 ml.
- 0 % sebagai perlakuan kontrol
- 5% → mengambil sari kedelai sebanyak 50 ml dimasukkan ke dalam media 1000 ml.
- 10 % → mengambil sari kedelai sebanyak 100 ml dimasukkan ke dalam media 1000 ml.
- 15 % → mengambil sari kedelai sebanyak 150 ml dimasukkan kedalam media 1000 ml.

LAMPIRAN 3

Analisis jumlah daun planlet anggrek bulan

(*Phalaenopsis* sp.) menggunakan SPSS versi 22

Jumlah Daun

Descriptives

jumlah daun

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|---|---|------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| | | | | | A | 3 | | |
| B | 3 | 3.00 | .000 | .000 | 3.00 | 3.00 | 3 | 3 |
| C | 3 | 2.00 | .000 | .000 | 2.00 | 2.00 | 2 | 2 |

| | | | | | | | | |
|-------|----|------|------|------|------|------|---|---|
| D | 3 | 2.33 | .577 | .333 | .90 | 3.77 | 2 | 3 |
| E | 3 | 2.33 | .577 | .333 | .90 | 3.77 | 2 | 3 |
| F | 3 | 2.00 | .000 | .000 | 2.00 | 2.00 | 2 | 2 |
| G | 3 | 3.33 | .577 | .333 | 1.90 | 4.77 | 3 | 4 |
| H | 3 | 1.67 | .577 | .333 | .23 | 3.10 | 1 | 2 |
| Total | 24 | 2.33 | .637 | .130 | 2.06 | 2.60 | 1 | 4 |

Test of Homogeneity of Variances

jumlah daun

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 9.143 | 7 | 16 | .000 |

ANOVA

jumlah daun

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 6.667 | 7 | .952 | 5.714 | .002 |
| Within Groups | 2.667 | 16 | .167 | | |
| Total | 9.333 | 23 | | | |

**Post Hoc
Tests**

Multiple Comparisons

Dependent Variable: jumlah daun

LSD

| (I) perlakuan | (J) perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---------------|---------------|--------------------------|------------|-------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| A | B | -1.000 | .333 | .008 | -1.71 | -.29 |
| | C | .000 | .333 | 1.000 | -.71 | .71 |
| | D | -.333 | .333 | .332 | -1.04 | .37 |
| | E | -.333 | .333 | .332 | -1.04 | .37 |
| | F | .000 | .333 | 1.000 | -.71 | .71 |
| | G | -1.333 | .333 | .001 | -2.04 | -.63 |

| | | | | | | |
|---|---|---------------------|------|-------|-------|------|
| | H | .333 | .333 | .332 | -.37 | 1.04 |
| B | A | 1.000 | .333 | .008 | .29 | 1.71 |
| | C | 1.000 ⁺ | .333 | .008 | .29 | 1.71 |
| | D | .667 | .333 | .063 | -.04 | 1.37 |
| | E | .667 | .333 | .063 | -.04 | 1.37 |
| | F | 1.000 ⁺ | .333 | .008 | .29 | 1.71 |
| | G | -.333 | .333 | .332 | -1.04 | .37 |
| | H | 1.333 ⁺ | .333 | .001 | .63 | 2.04 |
| | C | A | .000 | .333 | 1.000 | -.71 |
| B | | -1.000 ⁺ | .333 | .008 | -1.71 | -.29 |
| D | | -.333 | .333 | .332 | -1.04 | .37 |
| E | | -.333 | .333 | .332 | -1.04 | .37 |
| F | | .000 | .333 | 1.000 | -.71 | .71 |
| G | | -1.333 ⁺ | .333 | .001 | -2.04 | -.63 |
| H | | .333 | .333 | .332 | -.37 | 1.04 |
| D | | A | .333 | .333 | .332 | -.37 |
| | B | -.667 | .333 | .063 | -1.37 | .04 |
| | C | .333 | .333 | .332 | -.37 | 1.04 |
| | E | .000 | .333 | 1.000 | -.71 | .71 |
| | F | .333 | .333 | .332 | -.37 | 1.04 |
| | G | -1.000 ⁺ | .333 | .008 | -1.71 | -.29 |
| | H | .667 | .333 | .063 | -.04 | 1.37 |
| | E | A | .333 | .333 | .332 | -.37 |
| B | | -.667 | .333 | .063 | -1.37 | .04 |
| C | | .333 | .333 | .332 | -.37 | 1.04 |
| D | | .000 | .333 | 1.000 | -.71 | .71 |
| F | | .333 | .333 | .332 | -.37 | 1.04 |
| G | | -1.000 ⁺ | .333 | .008 | -1.71 | -.29 |
| H | | .667 | .333 | .063 | -.04 | 1.37 |
| F | | A | .000 | .333 | 1.000 | -.71 |
| | B | -1.000 ⁺ | .333 | .008 | -1.71 | -.29 |
| | C | .000 | .333 | 1.000 | -.71 | .71 |

| | | | | | | |
|---|---|---------------------|------|------|-------|------|
| | D | -.333 | .333 | .332 | -1.04 | .37 |
| | E | -.333 | .333 | .332 | -1.04 | .37 |
| | G | -1.333 [*] | .333 | .001 | -2.04 | -.63 |
| | H | .333 | .333 | .332 | -.37 | 1.04 |
| G | A | 1.333 | .333 | .001 | .63 | 2.04 |
| | B | .333 | .333 | .332 | -.37 | 1.04 |
| | C | 1.333 [*] | .333 | .001 | .63 | 2.04 |
| | D | 1.000 [*] | .333 | .008 | .29 | 1.71 |
| | E | 1.000 [*] | .333 | .008 | .29 | 1.71 |
| | F | 1.333 [*] | .333 | .001 | .63 | 2.04 |
| | H | 1.667 [*] | .333 | .000 | .96 | 2.37 |
| H | A | -.333 | .333 | .332 | -1.04 | .37 |
| | B | -1.333 [*] | .333 | .001 | -2.04 | -.63 |
| | C | -.333 | .333 | .332 | -1.04 | .37 |
| | D | -.667 | .333 | .063 | -1.37 | .04 |
| | E | -.667 | .333 | .063 | -1.37 | .04 |
| | F | -.333 | .333 | .332 | -1.04 | .37 |
| | G | -1.667 [*] | .333 | .000 | -2.37 | -.96 |

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

jumlah daun

Duncan^a

| perlakuan | N | Subset for alpha = 0.05 | | |
|-----------|---|-------------------------|---|---|
| | | 1 | 2 | 3 |
| H | 3 | 1.67 | | |
| A | 3 | 2.00 | | |
| C | 3 | 2.00 | | |
| F | 3 | 2.00 | | |

| | | | | |
|------|---|------|------|------|
| D | 3 | 2.33 | 2.33 | |
| E | 3 | 2.33 | 2.33 | |
| B | 3 | | 3.00 | 3.00 |
| G | 3 | | | 3.33 |
| Sig. | | .092 | .075 | .332 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAMPIRAN 4

Analisis jumlah akar planlet angrek bulan

(Phalaenopsis sp.) menggunakan SPSS versi 22

Descriptives

jumlah akar

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|----|------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| | | | | | A | 3 | | |
| B | 3 | 2.67 | 1.155 | .667 | -.20 | 5.54 | 2 | 4 |
| C | 3 | 2.67 | .577 | .333 | 1.23 | 4.10 | 2 | 3 |
| D | 3 | 2.00 | .000 | .000 | 2.00 | 2.00 | 2 | 2 |
| E | 3 | 2.67 | .577 | .333 | 1.23 | 4.10 | 2 | 3 |
| F | 3 | 2.00 | .000 | .000 | 2.00 | 2.00 | 2 | 2 |
| G | 3 | 4.00 | .000 | .000 | 4.00 | 4.00 | 4 | 4 |
| H | 3 | 3.33 | .577 | .333 | 1.90 | 4.77 | 3 | 4 |
| Total | 24 | 2.88 | .850 | .174 | 2.52 | 3.23 | 2 | 4 |

Test of Homogeneity of Variances

jumlah akar

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 8.000 | 7 | 16 | .000 |

ANOVA

Jumlah akar

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 11.292 | 7 | 1.613 | 4.839 | .004 |
| Within Groups | 5.333 | 16 | .333 | | |
| Total | 16.625 | 23 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: jumlah akar

LSD

| (I) perlakuan | (J) perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---------------|---------------|-----------------------|------------|-------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| A | B | 1.000 [*] | .471 | .050 | .00 | 2.00 |
| | C | 1.000 [*] | .471 | .050 | .00 | 2.00 |
| | D | 1.667 [*] | .471 | .003 | .67 | 2.67 |
| | E | 1.000 [*] | .471 | .050 | .00 | 2.00 |
| | F | 1.667 [*] | .471 | .003 | .67 | 2.67 |
| | G | -.333 | .471 | .490 | -1.33 | .67 |
| | H | .333 | .471 | .490 | -.67 | 1.33 |
| B | A | -1.000 [*] | .471 | .050 | -2.00 | .00 |
| | C | .000 | .471 | 1.000 | -1.00 | 1.00 |
| | D | .667 | .471 | .176 | -.33 | 1.67 |
| | E | .000 | .471 | 1.000 | -1.00 | 1.00 |

| | | | | | | |
|---|---|---------|------|-------|-------|-------|
| | F | .667 | .471 | .176 | -.33 | 1.67 |
| | G | -1.333* | .471 | .012 | -2.33 | -.33 |
| | H | -.667 | .471 | .176 | -1.67 | .33 |
| C | A | -1.000 | .471 | .050 | -2.00 | .00 |
| | B | .000 | .471 | 1.000 | -1.00 | 1.00 |
| | D | .667 | .471 | .176 | -.33 | 1.67 |
| | E | .000 | .471 | 1.000 | -1.00 | 1.00 |
| | F | .667 | .471 | .176 | -.33 | 1.67 |
| | G | -1.333* | .471 | .012 | -2.33 | -.33 |
| | H | -.667 | .471 | .176 | -1.67 | .33 |
| D | A | -1.667* | .471 | .003 | -2.67 | -.67 |
| | B | -.667 | .471 | .176 | -1.67 | .33 |
| | C | -.667 | .471 | .176 | -1.67 | .33 |
| | E | -.667 | .471 | .176 | -1.67 | .33 |
| | F | .000 | .471 | 1.000 | -1.00 | 1.00 |
| | G | -2.000* | .471 | .001 | -3.00 | -1.00 |
| | H | -1.333* | .471 | .012 | -2.33 | -.33 |
| E | A | -1.000* | .471 | .050 | -2.00 | .00 |
| | B | .000 | .471 | 1.000 | -1.00 | 1.00 |
| | C | .000 | .471 | 1.000 | -1.00 | 1.00 |
| | D | .667 | .471 | .176 | -.33 | 1.67 |
| | F | .667 | .471 | .176 | -.33 | 1.67 |
| | G | -1.333* | .471 | .012 | -2.33 | -.33 |
| | H | -.667 | .471 | .176 | -1.67 | .33 |
| F | A | -1.667* | .471 | .003 | -2.67 | -.67 |
| | B | -.667 | .471 | .176 | -1.67 | .33 |
| | C | -.667 | .471 | .176 | -1.67 | .33 |
| | D | .000 | .471 | 1.000 | -1.00 | 1.00 |
| | E | -.667 | .471 | .176 | -1.67 | .33 |
| | G | -2.000* | .471 | .001 | -3.00 | -1.00 |
| | H | -1.333* | .471 | .012 | -2.33 | -.33 |
| G | A | .333 | .471 | .490 | -.67 | 1.33 |

| | | | | | | |
|---|---|--------|------|------|-------|------|
| | B | 1.333* | .471 | .012 | .33 | 2.33 |
| | C | 1.333* | .471 | .012 | .33 | 2.33 |
| | D | 2.000* | .471 | .001 | 1.00 | 3.00 |
| | E | 1.333* | .471 | .012 | .33 | 2.33 |
| | F | 2.000* | .471 | .001 | 1.00 | 3.00 |
| | H | .667 | .471 | .176 | -.33 | 1.67 |
| H | A | -.333 | .471 | .490 | -1.33 | .67 |
| | B | .667 | .471 | .176 | -.33 | 1.67 |
| | C | .667 | .471 | .176 | -.33 | 1.67 |
| | D | 1.333* | .471 | .012 | .33 | 2.33 |
| | E | .667 | .471 | .176 | -.33 | 1.67 |
| | F | 1.333* | .471 | .012 | .33 | 2.33 |
| | G | -.667 | .471 | .176 | -1.67 | .33 |

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

jumlah akar

Duncan^a

| perlakuan | N | Subset for alpha = 0.05 | | |
|-----------|---|-------------------------|------|------|
| | | 1 | 2 | 3 |
| D | 3 | 2.00 | | |
| F | 3 | 2.00 | | |
| B | 3 | 2.67 | 2.67 | |
| C | 3 | 2.67 | 2.67 | |
| E | 3 | 2.67 | 2.67 | |
| H | 3 | | 3.33 | 3.33 |
| A | 3 | | 3.67 | 3.67 |
| G | 3 | | | 4.00 |

| | | | | |
|------|--|------|------|------|
| Sig. | | .219 | .072 | .198 |
|------|--|------|------|------|

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAMPIRAN 5

Analisis tinggi tanaman planlet anggrek bulan

Descriptives

tinggi tanaman

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|----|-------|-------------------|------------|-------------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| | | | | | A | 3 | | |
| B | 3 | 1.500 | .0000 | .0000 | 1.500 | 1.500 | 1.5 | 1.5 |
| C | 3 | 1.033 | .0577 | .0333 | .890 | 1.177 | 1.0 | 1.1 |
| D | 3 | 1.200 | .2646 | .1528 | .543 | 1.857 | 1.0 | 1.5 |
| E | 3 | 1.667 | .2887 | .1667 | .950 | 2.384 | 1.5 | 2.0 |
| F | 3 | 1.067 | .1155 | .0667 | .780 | 1.354 | 1.0 | 1.2 |
| G | 3 | 1.333 | .2887 | .1667 | .616 | 2.050 | 1.0 | 1.5 |
| H | 3 | 1.033 | .0577 | .0333 | .890 | 1.177 | 1.0 | 1.1 |
| Total | 24 | 1.258 | .2765 | .0564 | 1.142 | 1.375 | 1.0 | 2.0 |

(Phalaenopsis sp.) menggunakan SPSS versi 22

Test of Homogeneity of Variances

tinggi tanaman

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 4.204 | 7 | 16 | .008 |

ANOVA

tinggi tanaman

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 1.118 | 7 | .160 | 3.994 | .010 |
| Within Groups | .640 | 16 | .040 | | |
| Total | 1.758 | 23 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: tinggi tanaman

LSD

| (I) perlakuan | (J) perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---------------|---------------|-----------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| A | B | -.2667 | .1633 | .122 | -.613 | .080 |
| | C | .2000 | .1633 | .238 | -.146 | .546 |
| | D | .0333 | .1633 | .841 | -.313 | .380 |
| | E | -.4333 | .1633 | .017 | -.780 | -.087 |
| | F | .1667 | .1633 | .323 | -.180 | .513 |
| | G | -.1000 | .1633 | .549 | -.446 | .246 |
| | H | .2000 | .1633 | .238 | -.146 | .546 |
| B | A | .2667 | .1633 | .122 | -.080 | .613 |
| | C | .4667 | .1633 | .011 | .120 | .813 |
| | D | .3000 | .1633 | .085 | -.046 | .646 |
| | E | -.1667 | .1633 | .323 | -.513 | .180 |
| | F | .4333 | .1633 | .017 | .087 | .780 |
| | G | .1667 | .1633 | .323 | -.180 | .513 |
| | H | .4667 | .1633 | .011 | .120 | .813 |
| C | A | -.2000 | .1633 | .238 | -.546 | .146 |

| | | | | | | |
|---|---|--------|-------|-------|-------|-------|
| | B | -.4667 | .1633 | .011 | -.813 | -.120 |
| | D | -.1667 | .1633 | .323 | -.513 | .180 |
| | E | -.6333 | .1633 | .001 | -.980 | -.287 |
| | F | -.0333 | .1633 | .841 | -.380 | .313 |
| | G | -.3000 | .1633 | .085 | -.646 | .046 |
| | H | .0000 | .1633 | 1.000 | -.346 | .346 |
| D | A | -.0333 | .1633 | .841 | -.380 | .313 |
| | B | -.3000 | .1633 | .085 | -.646 | .046 |
| | C | .1667 | .1633 | .323 | -.180 | .513 |
| | E | -.4667 | .1633 | .011 | -.813 | -.120 |
| | F | .1333 | .1633 | .426 | -.213 | .480 |
| | G | -.1333 | .1633 | .426 | -.480 | .213 |
| | H | .1667 | .1633 | .323 | -.180 | .513 |
| E | A | .4333 | .1633 | .017 | .087 | .780 |
| | B | .1667 | .1633 | .323 | -.180 | .513 |
| | C | .6333 | .1633 | .001 | .287 | .980 |
| | D | .4667 | .1633 | .011 | .120 | .813 |
| | F | .6000 | .1633 | .002 | .254 | .946 |
| | G | .3333 | .1633 | .058 | -.013 | .680 |
| | H | .6333 | .1633 | .001 | .287 | .980 |
| F | A | -.1667 | .1633 | .323 | -.513 | .180 |
| | B | -.4333 | .1633 | .017 | -.780 | -.087 |
| | C | .0333 | .1633 | .841 | -.313 | .380 |
| | D | -.1333 | .1633 | .426 | -.480 | .213 |
| | E | -.6000 | .1633 | .002 | -.946 | -.254 |
| | G | -.2667 | .1633 | .122 | -.613 | .080 |
| | H | .0333 | .1633 | .841 | -.313 | .380 |
| G | A | .1000 | .1633 | .549 | -.246 | .446 |
| | B | -.1667 | .1633 | .323 | -.513 | .180 |
| | C | .3000 | .1633 | .085 | -.046 | .646 |
| | D | .1333 | .1633 | .426 | -.213 | .480 |
| | E | -.3333 | .1633 | .058 | -.680 | .013 |

| | | | | | | |
|---|---|--------|-------|-------|-------|-------|
| | F | .2667 | .1633 | .122 | -.080 | .613 |
| | H | .3000 | .1633 | .085 | -.046 | .646 |
| H | A | -.2000 | .1633 | .238 | -.546 | .146 |
| | B | -.4667 | .1633 | .011 | -.813 | -.120 |
| | C | .0000 | .1633 | 1.000 | -.346 | .346 |
| | D | -.1667 | .1633 | .323 | -.513 | .180 |
| | E | -.6333 | .1633 | .001 | -.980 | -.287 |
| | F | -.0333 | .1633 | .841 | -.380 | .313 |
| | G | -.3000 | .1633 | .085 | -.646 | .046 |

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

tinggi tanaman

Duncan^a

| perlakuan | N | Subset for alpha = 0.05 | | |
|-----------|---|-------------------------|-------|-------|
| | | 1 | 2 | 3 |
| C | 3 | 1.033 | | |
| H | 3 | 1.033 | | |
| F | 3 | 1.067 | | |
| D | 3 | 1.200 | 1.200 | |
| A | 3 | 1.233 | 1.233 | |
| G | 3 | 1.333 | 1.333 | 1.333 |
| B | 3 | | 1.500 | 1.500 |
| E | 3 | | | 1.667 |
| Sig. | | .120 | .109 | .070 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAMPIRAN 6**Analisis indeks pertumbuhan planlet anggrek bulan****(Phalaenopsis sp.) menggunakan SPSS versi 22****Descriptives**

Indeks Pertumbuhan

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|----|--------|-------------------|---------------|-------------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| | | | | | A | 3 | | |
| B | 3 | 3.0000 | .70000 | .40415 | 1.2611 | 4.7389 | 2.30 | 3.70 |
| C | 3 | 4.5500 | .74666 | .43108 | 2.6952 | 6.4048 | 4.00 | 5.40 |
| D | 3 | 2.1567 | .16862 | .09735 | 1.7378 | 2.5755 | 2.04 | 2.35 |
| E | 3 | 7.0633 | 1.29624 | .74838 | 3.8433 | 10.2834 | 6.30 | 8.56 |
| F | 3 | 5.0667 | 2.50267 | 1.44491 | -1.1503 | 11.2836 | 2.50 | 7.50 |
| G | 3 | 2.5900 | .69936 | .40377 | .8527 | 4.3273 | 1.94 | 3.33 |
| H | 3 | 2.0500 | .21794 | .12583 | 1.5086 | 2.5914 | 1.90 | 2.30 |
| Total | 24 | 3.8479 | 1.90858 | .38959 | 3.0420 | 4.6538 | 1.90 | 8.56 |

Test of Homogeneity of Variances

Indeks Pertumbuhan

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 2.469 | 7 | 16 | .064 |

ANOVA

Indeks Pertumbuhan

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 62.765 | 7 | 8.966 | 6.826 | .001 |
| Within Groups | 21.016 | 16 | 1.314 | | |

| | | | | | |
|-------|--------|----|--|--|--|
| Total | 83.782 | 23 | | | |
|-------|--------|----|--|--|--|

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Indeks Pertumbuhan

| | (I) perlakuan | (J) perlakuan | Mean Difference (I- J) | Std. Error | Sig. | 95% Confidence Interval | | |
|-----|---------------|---------------|------------------------------|-----------------------|--------|-------------------------|-------------|--------|
| | | | | | | Lower Bound | Upper Bound | |
| LSD | A | B | 1.30667 | .93578 | .182 | -.6771 | 3.2904 | |
| | | C | -.24333 | .93578 | .798 | -2.2271 | 1.7404 | |
| | | D | 2.15000 [*] | .93578 | .035 | .1662 | 4.1338 | |
| | | E | -2.75667 [*] | .93578 | .009 | -4.7404 | -.7729 | |
| | | F | -.76000 | .93578 | .429 | -2.7438 | 1.2238 | |
| | | G | 1.71667 | .93578 | .085 | -.2671 | 3.7004 | |
| | | H | 2.25667 [*] | .93578 | .028 | .2729 | 4.2404 | |
| | | B | A | -1.30667 | .93578 | .182 | -3.2904 | .6771 |
| | B | C | -1.55000 | .93578 | .117 | -3.5338 | .4338 | |
| | | D | .84333 | .93578 | .381 | -1.1404 | 2.8271 | |
| | | E | -4.06333 [*] | .93578 | .001 | -6.0471 | -2.0796 | |
| | | F | -2.06667 [*] | .93578 | .042 | -4.0504 | -.0829 | |
| | | G | .41000 | .93578 | .667 | -1.5738 | 2.3938 | |
| | | H | .95000 | .93578 | .325 | -1.0338 | 2.9338 | |
| | | C | A | .24333 | .93578 | .798 | -1.7404 | 2.2271 |
| | | B | 1.55000 | .93578 | .117 | -.4338 | 3.5338 | |
| | C | D | 2.39333 [*] | .93578 | .021 | .4096 | 4.3771 | |
| | | E | -2.51333 [*] | .93578 | .016 | -4.4971 | -.5296 | |
| | | F | -.51667 | .93578 | .588 | -2.5004 | 1.4671 | |
| | | G | 1.96000 | .93578 | .052 | -.0238 | 3.9438 | |
| | | H | 2.50000 [*] | .93578 | .017 | .5162 | 4.4838 | |
| | | D | A | -2.15000 [*] | .93578 | .035 | -4.1338 | -.1662 |

| | | | | | | |
|---|---|-----------|--------|------|---------|---------|
| | B | -.84333 | .93578 | .381 | -2.8271 | 1.1404 |
| | C | -2.39333 | .93578 | .021 | -4.3771 | -.4096 |
| | E | -4.90667* | .93578 | .000 | -6.8904 | -2.9229 |
| | F | -2.91000* | .93578 | .007 | -4.8938 | -.9262 |
| | G | -.43333 | .93578 | .650 | -2.4171 | 1.5504 |
| | H | .10667 | .93578 | .911 | -1.8771 | 2.0904 |
| E | A | 2.75667* | .93578 | .009 | .7729 | 4.7404 |
| | B | 4.06333* | .93578 | .001 | 2.0796 | 6.0471 |
| | C | 2.51333* | .93578 | .016 | .5296 | 4.4971 |
| | D | 4.90667* | .93578 | .000 | 2.9229 | 6.8904 |
| | F | 1.99667* | .93578 | .049 | .0129 | 3.9804 |
| | G | 4.47333* | .93578 | .000 | 2.4896 | 6.4571 |
| | H | 5.01333* | .93578 | .000 | 3.0296 | 6.9971 |
| F | A | .76000 | .93578 | .429 | -1.2238 | 2.7438 |
| | B | 2.06667* | .93578 | .042 | .0829 | 4.0504 |
| | C | .51667 | .93578 | .588 | -1.4671 | 2.5004 |
| | D | 2.91000* | .93578 | .007 | .9262 | 4.8938 |
| | E | -1.99667* | .93578 | .049 | -3.9804 | -.0129 |
| | G | 2.47667* | .93578 | .018 | .4929 | 4.4604 |
| | H | 3.01667* | .93578 | .005 | 1.0329 | 5.0004 |
| G | A | -1.71667 | .93578 | .085 | -3.7004 | .2671 |
| | B | -.41000 | .93578 | .667 | -2.3938 | 1.5738 |
| | C | -1.96000 | .93578 | .052 | -3.9438 | .0238 |
| | D | .43333 | .93578 | .650 | -1.5504 | 2.4171 |
| | E | -4.47333* | .93578 | .000 | -6.4571 | -2.4896 |
| | F | -2.47667* | .93578 | .018 | -4.4604 | -.4929 |
| | H | .54000 | .93578 | .572 | -1.4438 | 2.5238 |
| H | A | -2.25667* | .93578 | .028 | -4.2404 | -.2729 |
| | B | -.95000 | .93578 | .325 | -2.9338 | 1.0338 |
| | C | -2.50000* | .93578 | .017 | -4.4838 | -.5162 |

| | | | | | | |
|--|---|----------|--------|------|---------|---------|
| | D | -.10667 | .93578 | .911 | -2.0904 | 1.8771 |
| | E | -5.01333 | .93578 | .000 | -6.9971 | -3.0296 |
| | F | -3.01667 | .93578 | .005 | -5.0004 | -1.0329 |
| | G | -.54000 | .93578 | .572 | -2.5238 | 1.4438 |

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Indeks Pertumbuhan




| | perlakuan | N | Subset for alpha = 0.05 | | | |
|---------------------|-----------|---|-------------------------|--------|--------|--------|
| | | | 1 | 2 | 3 | 4 |
| Duncan ^a | H | 3 | 2.0500 | | | |
| | D | 3 | 2.1567 | | | |
| | G | 3 | 2.5900 | 2.5900 | | |
| | B | 3 | 3.0000 | 3.0000 | 3.0000 | |
| | A | 3 | | 4.3067 | 4.3067 | |
| | C | 3 | | 4.5500 | 4.5500 | |
| | F | 3 | | | 5.0667 | |
| | E | 3 | | | | 7.0633 |
| | Sig. | | | .364 | .070 | .058 |

Means for groups in homogeneous subsets are displayed.



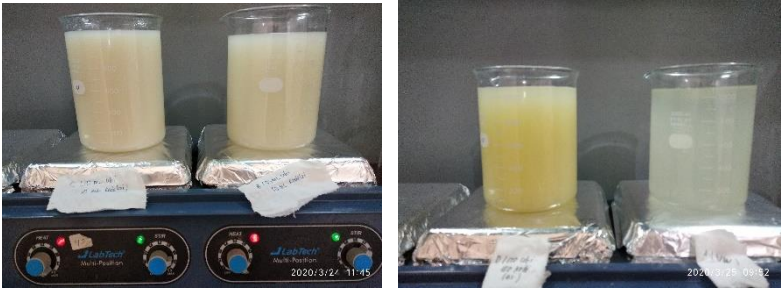
a. Uses Harmonic Mean Sample Size = 3.000.

LAMPIRAN 7





DOKUMENTASI PENELITIAN




| KEGIATAN | GAMBAR |
|---|--|
| Persipan eksplan anggrek bulan |  |
| Sterilisasi Botol dan cawan kultur |  |
| Penimbangan larutan stok hara makro dan mikro, vitamin hormone, sukrosa, dan agar |  |


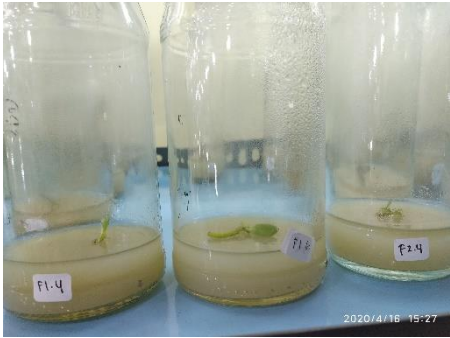

| | |
|--|--|
| <p>Pengenceran larutan stok, hormon, dan vitamin</p> |  |
| <p>Pembuatan sari ubi jalar</p> |  |
| <p>Pembuatan sari kedelai</p> |  |



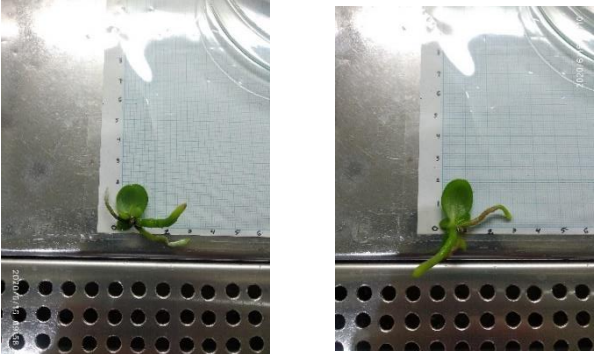
| | |
|--|--|
| <p>Proses penyaringan sari ubi kayu dan sari kedelai</p> |  |
| <p>Bahan-bahan yang dibutuhkan dalam pembuatan media VW dan Growmore</p> |  |
| <p>Pembuatan media VW</p> |  |

| | |
|---|--|
| <p>Pembuatan media growmore</p> |  |
| <p>Sterilisasi media</p> |  |
| <p>Media VW dan Growmore siap digunakan</p> |  |

| | |
|--|--|
| <p>Peralatan yang dibutuhkan untuk inokulasi sterilisasi ruang kerja dengan sinar UV</p> |  |
| <p>Inokulasi angrek bulan</p> |  |
| <p>Hasil penanaman di letakkan pada rak kultur dan simpan di ruang inkubasi</p> |  |
| <p>Hasil penanaman perlakuan Ulangan 1 (pertama)</p> |  |
| <p>Hasil penanaman perlakuan Ulangan 2 (kedua)</p> | |

| | |
|---|--|
| |  |
| <p>Hasil penanaman perlakuan ke 3 (ketiga)</p> |  |
| <p>Hasil penanaman perlakuan ke 4 (keempat)</p> |  |

| | |
|---|---|
| <p>Hasil penanaman perlakuan ke 5 (kelima)</p> |  <p>2020/4/16 15:27</p> |
| <p>Hasil penanaman perlakuan ke 6 (keenam)</p> |  <p>2020/4/16 15:27</p> |
| <p>Hasil penanaman perlakuan ke 7 (ketujuh)</p> |  <p>2020/4/16 15:27</p> |

| | |
|---|--|
| <p>Hasil penanaman perlakuan ke 8 (kedelapan)</p> |  |
| <p>Pengambilan data hasil inkubasi selama 60 hari</p> |  |
| <p>Pengukuran tinggi tanaman</p> |  |

Penghitungan jumlah daun
dan akar



Pengukuran berat massa





UNIVERSITAS PGRI ADI BUANA SURABAYA
FAKULTAS SAINS TEKNOLOGI

Badan Penyelenggara PPLP PT PGRI Surabaya
 Keputusan MENKUMHAM RI NO. AHU-0000485.AH.01.08.Tahun 2019
 Kampus Pusat: Jl. Dukuh Menanggal XII-4 Surabaya 60234 Telp. (031) 8281181
<http://www.unipasby.ac.id>

PERBAIKAN/REVISI UJIAN SKRIPSI

- 1 NAMA : Nia Ardyana
 2 NIM : 162500010
 3 PRODI : Biologi
 4 JUDUL : Perbedaan Pertumbuhan Planlet Angrek Bulan (*Phalaenopsis* sp.)
 Secara *In Vitro* dengan Penambahan Sari Ubi Kayu (*Monihot* sp.) dan Sari
 Kedelai (*Glycine max*) pada Media VW (*Vacint and Went*) dan
 Growmore (32:10:10).
 5 PEMBIMBING : Dra. Sulistyowati, M.Si

| Materi Perbaikan/ Revisi Skripsi | Tanda Tangan Dosen Penguji |
|----------------------------------|----------------------------|
| 1. Abstrak | |
| 2. Bab I dan II | |

Surabaya, 22 Juli 2020
 Pembimbing

Dra. Sulistyowati, M.Si



UNIVERSITAS PGRI ADI BUANA SURABAYA

FAKULTAS SAINS TEKNOLOGI

Badan Penyelenggara PPLP PT PGRI Surabaya

Keputusan MENKUMHAM RI NO. AHU-0000485.AH.01.08.Tahun 2019

Kampus Pusat: Jl. Dukuh Menanggal XII-4 Surabaya 60234 Telp. (031) 8281181

<http://www.unipasby.ac.id>

BERITA ACARA BIMBINGAN SKRIPSI

- 1 NAMA : Nia Ardyana
- 2 NIM : 162500010
- 3 PRODI : Biologi
- 4 JUDUL : Perbedaan Pertumbuhan Planlet Anggrek Bulan (*Phalaenopsis* sp.) Secara *In Vitro* dengan Penambahan Sari Ubi Kayu (*Monihot* sp.) dan Sari Kedelai (*Glycine max*) pada Media VW (*Vacint and Went*) dan Growmore (32:10:10)
- 5 TANGGAL PENGAJUAN: 03 oktober 2019
- 6 PEMBIMBING : Dra. Sulistyowati, M. Si
- 7 PERIODE : 2019-2020
- 8 BERLAKU SEMESTER: Genap
- 9 PELAKSANAAN KONSULTASI BIMBINGAN:

| NO. | TANGGAL | URAIAN KETERANGAN | PARAF |
|-----|------------------|--|-------------|
| 1 | 3 Oktober 2019 | Konsultasi judul | [Signature] |
| 2 | 6 November 2019 | BAB I Latar Belakang | [Signature] |
| 3 | 12 November 2019 | BAB II Tinjauan Pustaka | [Signature] |
| 4 | 28 November 2019 | BAB III Kerangka Pikiran dan hipotesis | [Signature] |
| 5 | 17 Desember 2019 | BAB IV Metodologi penelitian | [Signature] |
| 6 | 05 Maret 2020 | Penelitian | [Signature] |
| 7 | 23 juni 2020 | Penelitian | [Signature] |
| 8 | 5 juli 2020 | BAB V Hasil penelitian | [Signature] |
| 9 | 11 Juli 2020 | BAB VI Pembahasan | [Signature] |
| 10 | 12 Juli 2020 | BAB VII Simpulan dan saran | [Signature] |



Surabaya, 22 Juli 2020
Pembimbing

Dra. Sulistyowati, M. Si