

## LAMPIRAN

**Lampiran 1.1.** Data Oneway Anova Rerata Tinggi Tanaman, Jumlah Daun, Tinggi Tunas, dan Parameter Ketahanan Tanaman.

### Oneway Anova

<b>Descriptives</b>										
		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	
						Lower Bound	Upper Bound			
Tinggi Tanaman	P0	5	2.0233	.57718	.25812	1.3067	2.7400	1.38	2.73	
	P5	5	1.6233	.64416	.28808	.8235	2.4232	1.20	2.77	
	P10	5	1.6367	.63677	.28477	.8460	2.4273	1.22	2.77	
	P15	5	1.6233	.59821	.26753	.8806	2.3661	1.22	2.68	
	Total	20	1.7267	.59085	.13212	1.4501	2.0032	1.20	2.77	
Jumlah Daun	P0	5	1.6000	.76012	.33993	.6562	2.5438	.67	2.67	
	P5	5	1.8667	.98883	.44222	.6389	3.0945	.67	3.33	
	P10	5	2.1667	1.48137	.66249	.3273	4.0060	.83	4.67	
	P15	5	2.5000	1.84089	.82327	.2142	4.7858	.83	5.67	
	Total	20	2.0333	1.27344	.28475	1.4373	2.6293	.67	5.67	
Tinggi Tunas	P0	5	.5933	.18841	.08426	.3594	.8273	.38	.90	
	P5	5	.4200	.13561	.06064	.2516	.5884	.23	.58	
	P10	5	.3500	.10992	.04916	.2135	.4865	.23	.50	
	P15	5	.3467	.10435	.04667	.2171	.4762	.23	.48	
	Total	20	.4275	.16350	.03656	.3510	.5040	.23	.90	
Parameter Ketahanan Tanaman	P0	5	.4000	.14907	.06667	.2149	.5851	.17	.50	
	P5	5	.2000	.07454	.03333	.1075	.2925	.17	.33	
	P10	5	.2000	.07454	.03333	.1075	.2925	.17	.33	
	P15	5	.2000	.07454	.03333	.1075	.2925	.17	.33	
	Total	20	.2500	.12681	.02836	.1906	.3094	.17	.50	
<b>Tests of Homogeneity of Variances</b>										
						Levene Statistic	df1	df2	Sig.	
Tinggi Tanaman	Based on Mean						.016	3	16	.997
	Based on Median						.079	3	16	.970
	Based on Median and with adjusted df						.079	3	14.230	.970
	Based on trimmed mean						.030	3	16	.993

Jumlah Daun	Based on Mean	.665	3	16	.585
	Based on Median	.181	3	16	.908
	Based on Median and with adjusted df	.181	3	9.912	.907
	Based on trimmed mean	.513	3	16	.679
Tinggi Tunas	Based on Mean	.244	3	16	.865
	Based on Median	.115	3	16	.950
	Based on Median and with adjusted df	.115	3	10.857	.950
	Based on trimmed mean	.198	3	16	.896
Parameter Ketahanan Tanaman	Based on Mean	2.174	3	16	.131
	Based on Median	.571	3	16	.642
	Based on Median and with adjusted df	.571	3	10.316	.646
	Based on trimmed mean	1.934	3	16	.165

ANOVA						
		Sum of Squares	Df	Mean Square	F	Sig.
Tinggi Tanaman	Between Groups	.587	3	.196	.518	.676
	Within Groups	6.046	16	.378		
	Total	6.633	19			
Jumlah Daun	Between Groups	2.256	3	.752	.421	.740
	Within Groups	28.556	16	1.785		
	Total	30.811	19			
Tinggi Tunas	Between Groups	.200	3	.067	3.478	.041
	Within Groups	.307	16	.019		
	Total	.508	19			
Parameter Ketahanan Tanaman	Between Groups	.150	3	.050	5.143	.011
	Within Groups	.156	16	.010		
	Total	.306	19			

Multiple Comparisons								
Dependent Variable		(I) Perla kuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
							Lower Bound	Upper Bound
Tinggi Tanaman	Tukey HSD	P0	P5	.40000	.38877	.735	-.7123	1.5123
			P10	.38667	.38877	.755	-.7256	1.4989
			P15	.40000	.38877	.735	-.7123	1.5123

		P5	P0	-.40000	.38877	.735	-1.5123	.7123		
			P10	-.01333	.38877	1.000	-1.1256	1.0989		
			P15	.00000	.38877	1.000	-1.1123	1.1123		
		P10	P0	-.38667	.38877	.755	-1.4989	.7256		
			P5	.01333	.38877	1.000	-1.0989	1.1256		
			P15	.01333	.38877	1.000	-1.0989	1.1256		
		P15	P0	-.40000	.38877	.735	-1.5123	.7123		
			P5	.00000	.38877	1.000	-1.1123	1.1123		
			P10	-.01333	.38877	1.000	-1.1256	1.0989		
		LSD	P0	P5	.40000	.38877	.319	-.4242	1.2242	
				P10	.38667	.38877	.335	-.4375	1.2108	
				P15	.40000	.38877	.319	-.4242	1.2242	
	P5		P0	-.40000	.38877	.319	-1.2242	.4242		
			P10	-.01333	.38877	.973	-.8375	.8108		
			P15	.00000	.38877	1.000	-.8242	.8242		
	P10		P0	-.38667	.38877	.335	-1.2108	.4375		
			P5	.01333	.38877	.973	-.8108	.8375		
			P15	.01333	.38877	.973	-.8108	.8375		
	P15		P0	-.40000	.38877	.319	-1.2242	.4242		
			P5	.00000	.38877	1.000	-.8242	.8242		
			P10	-.01333	.38877	.973	-.8375	.8108		
	Jumlah Daun		Tukey HSD	P0	P5	-.26667	.84492	.989	-2.6840	2.1507
					P10	-.56667	.84492	.907	-2.9840	1.8507
					P15	-.90000	.84492	.715	-3.3173	1.5173
		P5		P0	.26667	.84492	.989	-2.1507	2.6840	
				P10	-.30000	.84492	.984	-2.7173	2.1173	
				P15	-.63333	.84492	.876	-3.0507	1.7840	
P10		P0		.56667	.84492	.907	-1.8507	2.9840		
		P5		.30000	.84492	.984	-2.1173	2.7173		
		P15		-.33333	.84492	.978	-2.7507	2.0840		
P15		P0		.90000	.84492	.715	-1.5173	3.3173		
		P5		.63333	.84492	.876	-1.7840	3.0507		
		P10		.33333	.84492	.978	-2.0840	2.7507		
LSD		P0		P5	-.26667	.84492	.756	-2.0578	1.5245	
				P10	-.56667	.84492	.512	-2.3578	1.2245	
				P15	-.90000	.84492	.303	-2.6911	.8911	
	P5	P0	.26667	.84492	.756	-1.5245	2.0578			
		P10	-.30000	.84492	.727	-2.0911	1.4911			
		P15	-.63333	.84492	.464	-2.4245	1.1578			
P10	P0	.56667	.84492	.512	-1.2245	2.3578				

Tinggi Tunas	Tukey HSD	P15	P5	.30000	.84492	.727	-1.4911	2.0911		
			P15	-.33333	.84492	.698	-2.1245	1.4578		
			P0	.90000	.84492	.303	-.8911	2.6911		
			P5	.63333	.84492	.464	-1.1578	2.4245		
			P10	.33333	.84492	.698	-1.4578	2.1245		
	Tinggi Tunas	Tukey HSD	P0	P5	.17333	.08767	.237	-.0775	.4242	
				P10	.24333	.08767	.059	-.0075	.4942	
				P15	.24667	.08767	.055	-.0042	.4975	
			P5	P0	-.17333	.08767	.237	-.4242	.0775	
				P10	.07000	.08767	.854	-1.808	.3208	
				P15	.07333	.08767	.836	-1.775	.3242	
			P10	P0	-.24333	.08767	.059	-.4942	.0075	
				P5	-.07000	.08767	.854	-.3208	.1808	
				P15	.00333	.08767	1.000	-.2475	.2542	
			P15	P0	-.24667	.08767	.055	-.4975	.0042	
P5				-.07333	.08767	.836	-.3242	.1775		
P10				-.00333	.08767	1.000	-.2542	.2475		
Tinggi Tunas			LSD	P0	P5	.17333	.08767	.066	-.0125	.3592
					P10	.24333*	.08767	.014	.0575	.4292
					P15	.24667*	.08767	.012	.0608	.4325
	P5	P0		-.17333	.08767	.066	-.3592	.0125		
		P10		.07000	.08767	.436	-1.159	.2559		
		P15		.07333	.08767	.415	-1.125	.2592		
	P10	P0		-.24333*	.08767	.014	-.4292	-.0575		
		P5		-.07000	.08767	.436	-.2559	.1159		
		P15		.00333	.08767	.970	-1.825	.1892		
	P15	P0		-.24667*	.08767	.012	-.4325	-.0608		
		P5		-.07333	.08767	.415	-.2592	.1125		
		P10		-.00333	.08767	.970	-1.892	.1825		
	Parameter Ketahanan Tanaman	Tukey HSD		P0	P5	.20000*	.06236	.025	.0216	.3784
					P10	.20000*	.06236	.025	.0216	.3784
					P15	.20000*	.06236	.025	.0216	.3784
P5			P0	-.20000*	.06236	.025	-.3784	-.0216		
			P10	.00000	.06236	1.000	-1.784	.1784		
			P15	.00000	.06236	1.000	-1.784	.1784		
P10			P0	-.20000*	.06236	.025	-.3784	-.0216		
			P5	.00000	.06236	1.000	-1.784	.1784		
			P15	.00000	.06236	1.000	-1.784	.1784		
P15			P0	-.20000*	.06236	.025	-.3784	-.0216		
			P5	.00000	.06236	1.000	-1.784	.1784		

			P10	.00000	.06236	1.000	-.1784	.1784
	LSD	P0	P5	.20000*	.06236	.005	.0678	.3322
			P10	.20000*	.06236	.005	.0678	.3322
			P15	.20000*	.06236	.005	.0678	.3322
		P5	P0	-.20000*	.06236	.005	-.3322	-.0678
			P10	.00000	.06236	1.000	-.1322	.1322
			P15	.00000	.06236	1.000	-.1322	.1322
		P10	P0	-.20000*	.06236	.005	-.3322	-.0678
			P5	.00000	.06236	1.000	-.1322	.1322
			P15	.00000	.06236	1.000	-.1322	.1322
		P15	P0	-.20000*	.06236	.005	-.3322	-.0678
			P5	.00000	.06236	1.000	-.1322	.1322
			P10	.00000	.06236	1.000	-.1322	.1322

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

Tinggi Tanaman			
	Perlakuan	N	Subset for alpha = 0.05
			1
Tukey HSD <sup>a</sup>	P15	5	1.6233
	P5	5	1.6233
	P10	5	1.6367
	P0	5	2.0233
	Sig.		.735
Duncan <sup>a</sup>	P15	5	1.6233
	P5	5	1.6233
	P10	5	1.6367
	P0	5	2.0233
	Sig.		.358
Means for groups in homogeneous subsets are displayed.			
a. Uses Harmonic Mean Sample Size = 5.000.			

Jumlah Daun			
	Perlakuan	N	Subset for alpha = 0.05
			1
Tukey HSD <sup>a</sup>	P0	5	1.6000
	P5	5	1.8667
	P10	5	2.1667
	P15	5	2.5000

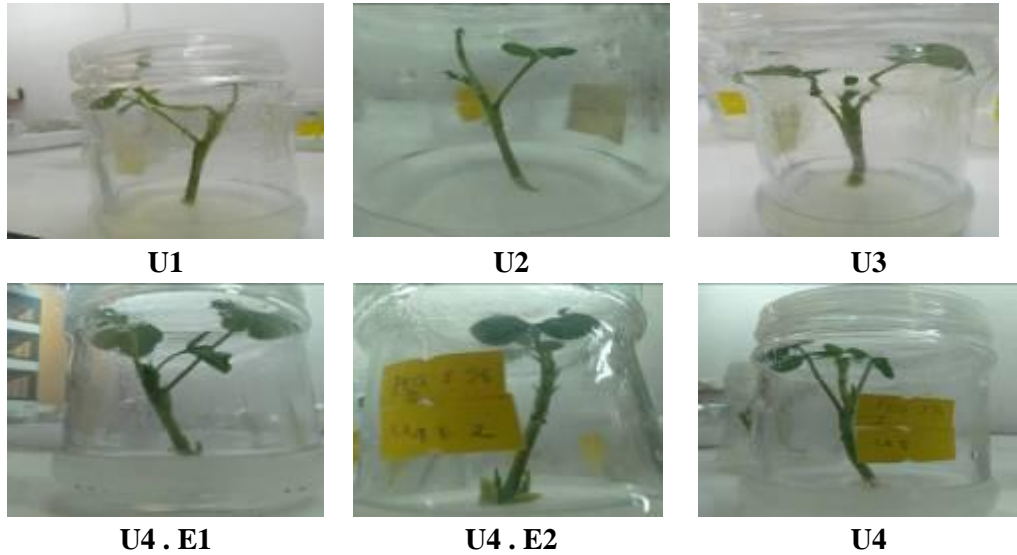
	Sig.		.715
Duncan <sup>a</sup>	P0	5	1.6000
	P5	5	1.8667
	P10	5	2.1667
	P15	5	2.5000
	Sig.		.342
Means for groups in homogeneous subsets are displayed.			
a. Uses Harmonic Mean Sample Size = 5.000.			

<b>Tinggi Tunas</b>				
	Perlakuan	N	Subset for alpha = 0.05	
			1	2
Tukey HSD <sup>a</sup>	P15	5	.3467	
	P10	5	.3500	
	P5	5	.4200	
	P0	5	.5933	
	Sig.		.055	
Duncan <sup>a</sup>	P15	5	.3467	
	P10	5	.3500	
	P5	5	.4200	.4200
	P0	5		.5933
	Sig.		.440	.066
Means for groups in homogeneous subsets are displayed.				
a. Uses Harmonic Mean Sample Size = 5.000.				

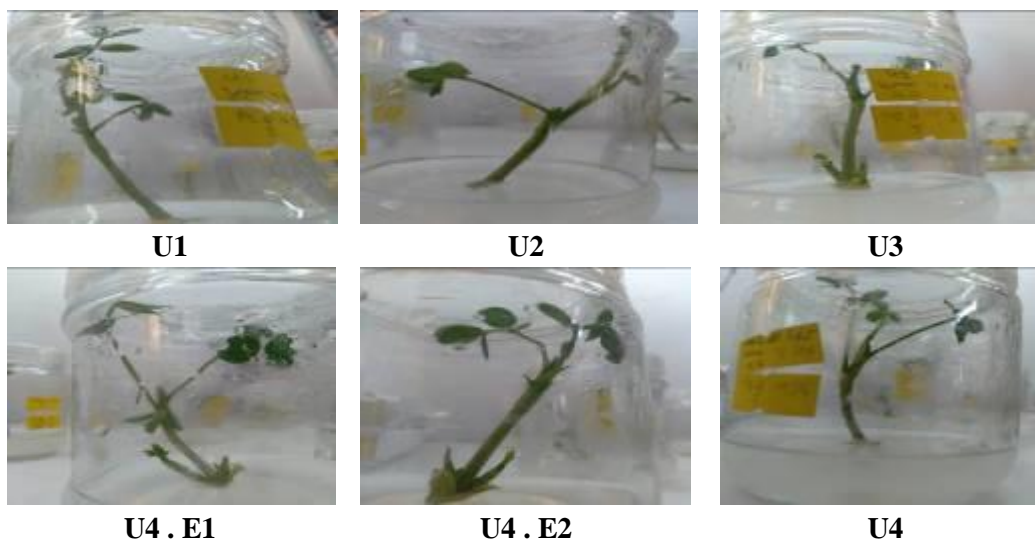
<b>Parameter Ketahanan Tanaman</b>				
	Perlakuan	N	Subset for alpha = 0.05	
			1	2
Tukey HSD <sup>a</sup>	P5	5	.2000	
	P10	5	.2000	
	P15	5	.2000	
	P0	5		.4000
	Sig.		1.000	1.000
Duncan <sup>a</sup>	P5	5	.2000	
	P10	5	.2000	
	P15	5	.2000	
	P0	5		.4000
	Sig.		1.000	1.000
Means for groups in homogeneous subsets are displayed.				

a. Uses Harmonic Mean Sample Size = 5.000.

**Lampiran 1.2.** Hasil seleksi cekaman kekeringan secara *in vitro* terhadap eksplan kacang tanah (*Arachis hypogaea* L.) dengan menggunakan PEG.

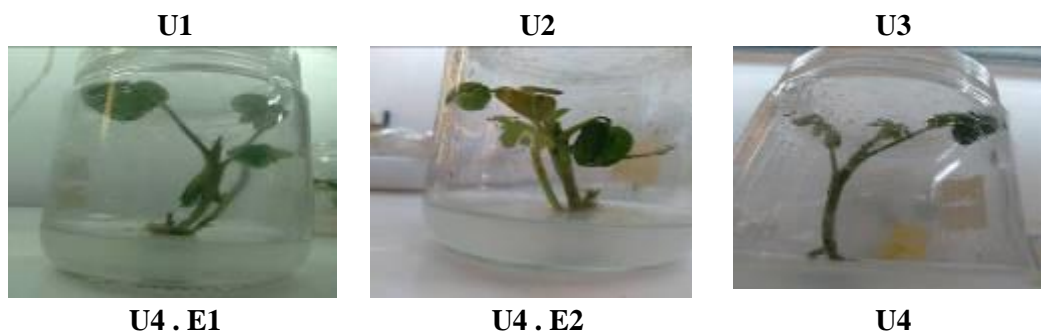


Gambar 1. Hasil seleksi eksplan kacang tanah (*Arachis hypogaea* L.) menggunakan PEG 5%.



Gambar 2. Hasil seleksi eksplan kacang tanah (*Arachis hypogaea* L.) menggunakan PEG 10%.





**U4 . E1**                      **U4 . E2**                      **U4**  
Gambar 3. Hasil seleksi eksplan kacang tanah (*Arachis hypogaea* L.)  
menggunakan PEG 15%



## Lampiran 1.3. surat izin penelitian



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI  
UNIVERSITAS TIMOR  
FAKULTAS ILMU PENDIDIKAN  
Jln.Km.09 Kelurahan Sasi-Kefamenanu  
Laman : unimor.ac.id e-mail: [universitastimor@yahoo.co.id](mailto:universitastimor@yahoo.co.id)

Nomor : 446/UN60.3.1/PP/2022  
Lampiran : -  
Perihal : Surat Izin Penelitian

Kefamenanu, 01 Agustus 2022

Yth. Kepala Laboratorium Pendidikan Biologi Universitas Timor

Di –

Tempat

Dengan hormat,

Sesuai perihal surat diatas, maka bersama ini kami mohon untuk diberikan ijin kepada mahasiswa kami dari Program Studi Pendidikan Biologi Fakultas Ilmu Pendidikan Universitas Timor atas nama Christina Ignasia Tangi, NPM: 33180012 untuk melaksanakan penelitian yang bertempat/berlokasi di Unit Bapak/Ibu Pimpin. Penelitian ini dimkasudkan untuk memenuhi persyaratan dalam penyelesaian Skripsi atau Tugas Akhir mahasiswa tersebut. Judul penelitian tertera sebagai berikut : **“Identifikasi Pertumbuhan Dan Ketahanan Kalus Embriogenik Kacang Tanah (*Arachis hypogaea* L.) Yang Tahan Terhadap Cekaman Kekeringan Secara *In Vitro* Dari Kabupaten Malaka”**.

Demikian permohonan ini kami sampaikan. atas perhatian dan kerjasamanya kami mengucapkan terima kasih.

Wakil Dekan Bidang Akademik &  
Kemahasiswaan FIP,  
  
E. Kristanti, S.Psi., M.A.  
NIP. 196509142005012001

**Lampiran 1.4.** Surat keterangan selesai penelitian

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI  
UNIVERSITAS TIMOR (UNIMOR)  
FAKULTAS ILMU PENDIDIKAN  
LABORATORIUM BIOLOGI  
Jalan Km 09 Kelurahan Sasi, Kefamenanu  
Laman : Unimor.ac.id, e-mail : [universitastimor@yahoo.co.id](mailto:universitastimor@yahoo.co.id)

**SURAT KETERANGAN SELESAI PENELITIAN****Nomor : 12/UN60.3.8/LL-II/2022**

Yang bertanda tangan di bawah ini,  
Nama : Kamaluddin, S.Si., M.Si  
NIP : 19900404 201903 1 021  
Jabatan : Kepala Laboratorium Biologi

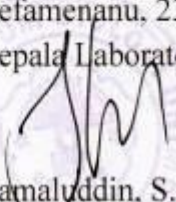
Menerangkan bahwa mahasiswa tersebut di bawah ini :  
Nama : Christina Ignasia Tangi  
NPM : 33180012  
Semester : IX (sembilan)  
Fakultas : Ilmu Pendidikan  
Prodi : Pendidikan Biologi

Telah selesai melakukan penelitian di Laboratorium Biologi, terhitung mulai tanggal 01 September 2022 sampai dengan tanggal 24 September 2022, untuk memperoleh data dalam rangka penyusunan skripsi yang berjudul :

**" IDENTIFIKASI PERTUMBUHAN DAN KETAHANAN ESPLAN KACANG TANAH (ARACHIS HYPOGAEA L.) YANG TAHAN TERHADAP CEKAMAN KEKERINGAN SECARA IN VITRO DARI KABUPATEN MALAKA".**

Demikian surat keterangan ini dibuat dan diberikan kepada yang bersangkutan untuk dipergunakan seperlunya.

Kefamenanu, 23 November 2022  
Kepala Laboratorium Biologi

  
Kamaluddin, S.Si., M.Si