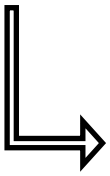
LAMPIRAN

Lampiran 1. *Lay out* percobaan di Laboratorium Kultur *In vitro*, UMY

EN10%-5’ (1)	EN5%-5’ (2)	EN5%-5’ (1)
EM5%-5’ (3)	EN5%-10’ (2)	EN5%-5’ (3)
EN5%-10’ (3)	EM5%-10’ (3)	EN10%-5’ (3)
EM10%-5’ (1)	EN10%-5’ (2)	EM10%-10’ (2)
EN10%-5’ (1)	EM10%-10’ (3)	EM5%-5’ (1)
EM10%-5’ (3)	EN5%-10’ (1)	EM10%-10’ (1)
EN10%-10’ (3)	EM5%-10’ (2)	EM5%-5’ (2)
EN10%-10’ (2)	EM10%-5’ (2)	EM5%-10’ (1)



EN10%-10’ (2) 1
EN10%-10’ (2) 2
EN10%-10’ (2) 3

Keterangan :

EN5%-5’ = Eksplan Endosperm disterilisasi NaOCl 5% selama 5 menit
EN5%-10’ = Eksplan Endosperm disterilisasi NaOCl 5% selama 10 menit
EN10%-5’ = Eksplan Endosperm disterilisasi NaOCl 10% selama 5 menit
EN10%-10’ = Eksplan Endosperm disterilisasi NaOCl 10% selama 10 menit
EM5%-5’ = Eksplan Embrio disterilisasi NaOCl 5% selama 5 menit
EM5%-10’ = Eksplan Embrio disterilisasi NaOCl 5% selama 10 menit
EM10%-5’ = Eksplan Embrio disterilisasi NaOCl 10% selama 5 menit
EM10%-10’ = Eksplan Embrio disterilisasi NaOCl 10% selama 10 menit
(2) 1 = Ulangan 2, sampel 1

Lampiran 2. Tabel Pembuatan Stok medium *Murashige and Skoog* + ZPT.

Stok	**Bahan**	**Konsentrasi medium (g/l)**	**Stok 10 X (g)**	**Vol larutan stok (ml)**	**Pengambilan untuk buat media (ml/l)**
Makro	KNO_3	1,9	19	500	50
	NH_4NO_3	1,65	16,5	500	50
	$CaCl_2.2H_2O$	0,44	4,4	500	50
	$MgSO_4.7H_2O$	0,37	3,7	500	50
	KH_4PO_4	0,17	1,7	500	50
Mikro	$MnSO_4.4H_2O$	0,0223	0,223	100	10
	$ZnSO_4.2H_2O$	0,0086	0,086	100	10
	H_3BO_3	0,0062	0,062	100	10
	KI	0,00083	0,0083	100	10
	$CuSO_4.5H_2O$	0,00025	0,0025	100	10
	$Na_2Mo_4.2H_2O$	0,000025	0,00025	100	10
	$CoCl_2.6H_2O$	0,000094	0,00094	100	10
	$FeSO_4.7H_2O$	0,0278	0,278	100	10
	Na_2 EDTA. $2H_2O$	0,0373	0,373	100	10
Vitamin	*Thiamin HCl*	0,0001	0,001	100	10
	Nichotinic Acid	0,0005	0,005	100	10
	Phyridoxin HCl	0,0005	0,005	100	10
	Glicine	0,002	0,02	100	10
Mio-Inositol	*Myo- Inositol*	0,1	1	100	10
BAP	BAP	0,001	0,01	100	10
2,4-D	2,4 D	0,001	0,01	100	10

Bahan tambahan

Bahan	**Jumlah**
Agar	7 g/l
Sukrosa	30 g/l
Ppm	0,5 ml/l

Lampiran 3. Bagan sterlisasi eksplan Biji kepel

Biji kepel

↓

Dicuci dengan air mengalir

↓

Direndam dalam larutan detergen 2 g/l selama 10 menit

↓

Dibilas dengan air mengalir

↓

Direndam dalam larutan bakterisida dan fungisida 2 g/l selama 60 menit

↓

Biji kepel dibawa ke LAF

↓

Dibilas dengan aquades steril 3 kali

↓

Direndam dalam alkohol 70% selama 1 menit

↓

Ditiriskan pada kertas saring

↓

Dipisahkan antara embrio dengan endosperm

↓

Eksplan direndam dalam larutan NaOCl 5% selama 5 dan 10 menit, 10% selama 5 dan 10 menit

↓

Dibilas dengan aquades steril 3 kali

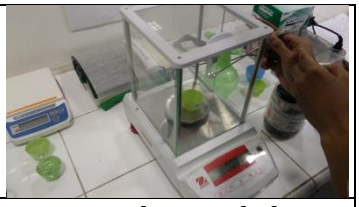
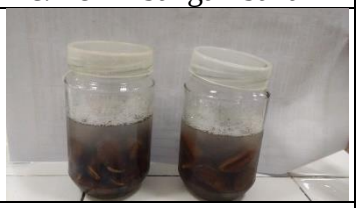
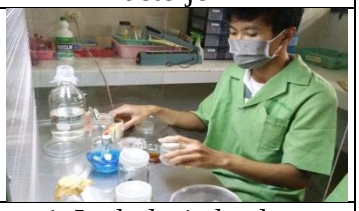
↓

Direndam dalam larutan betadin sambil dibelah

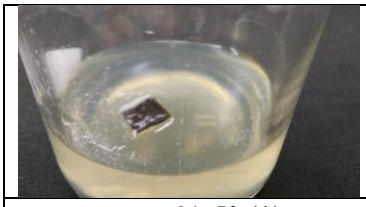
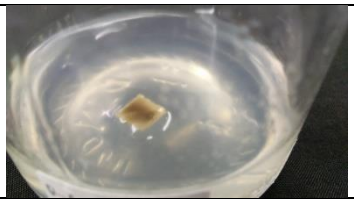
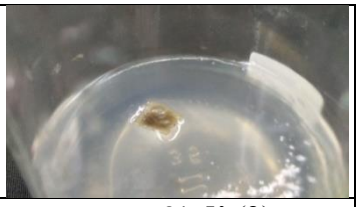
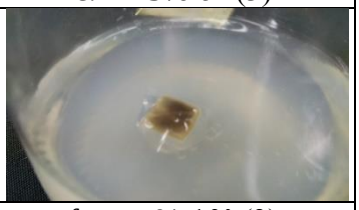
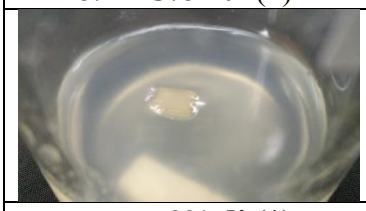
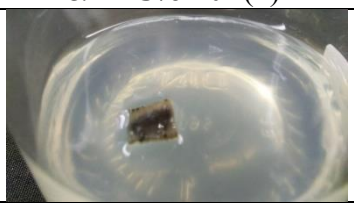
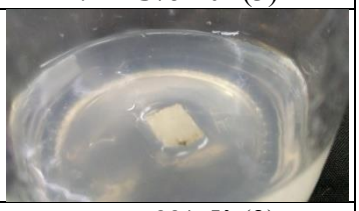
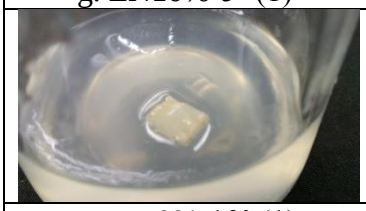
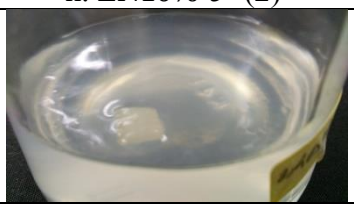
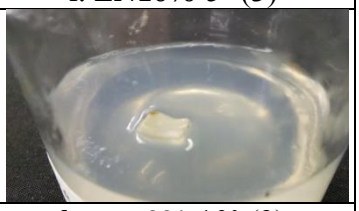
↓

Eksplan siap ditanam pada medium MS + 2,4-D 2 ppm/l dan BAP 0,5 ppm/l.

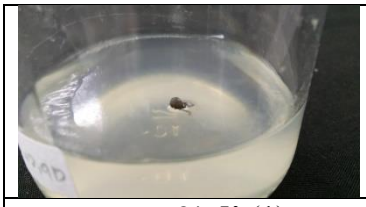
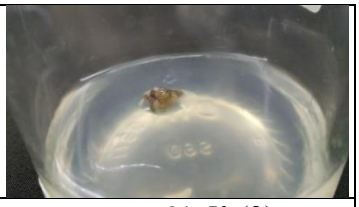
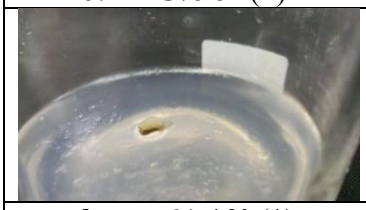
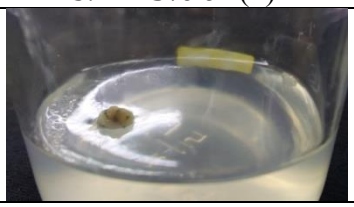
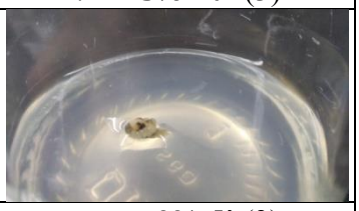
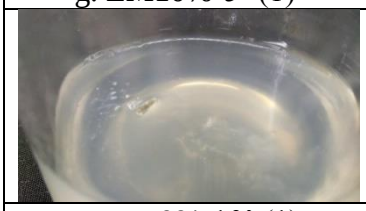
Lampiran 4. Foto Kegiatan Penelitian: Tata Cara Penelitian

		
a. Perendaman botol	b. Sterilisasi alat	c. Penimbangan bahan
		
d. Pengambilan laurtan stok	e. Pembuatan medium	f. Sterilisasi biji menggunakan larutan deterjen
		
g. Sterilisasi biji menggunakan larutan bakterisida dan fungisida	h. Sterilisasi eksplan menggunakan larutan NaOCl	i. Inokulasi eksplan

Lampiran 5. Eksplan endosperm kepel pada berbagai perlakuan umur 60 hst

		
a. EN5%-5’ (1)	b. EN5%-5’ (2)	c. EN5%-5’ (3)
		
d. EN5%-10’ (1)	e. EN5%-10’ (2)	f. EN5%-10’ (3)
		
g. EN10%-5’ (1)	h. EN10%-5’ (2)	i. EN10%-5’ (3)
		
j. EN10%-10’ (1)	k. EN10%-10’ (2)	l. EN10%-10’ (3)

Lampiran 6. Eksplan embrio kepel pada berbagai perlakuan umur 60 hst

		
a. EM5%-5’ (1)	b. EM5%-5’ (2)	c. EM5%-5’ (3)
		
d. EM5%-10’ (1)	e. EM5%-10’ (2)	f. EM5%-10’ (3)
		
g. EM10%-5’ (1)	h. EM10%-5’ (2)	i. EM10%-5’ (3)
		
j. EM10%-10’ (1)	k. EM10%-10’ (2)	l. EM10%-10’ (3)

Lampiran 7. Hasil Sidik Ragam Persentase Eksplan Hidup dan Persentase *browning*

a. Persentase Eksplan Hidup

Sumber	Db	JK	KT	F. Hitung	Pr >
Model	7	26482,79636	3783,25662	8,17	0,0003s
Perlakuan	7	26482,79636	3783,25662	8,17	0,0003s
Galat	16	7407,48153	462,6760		
Total	23	33890,27790			
R^2 = 0,781428	KV = 36,88600				

Keterangan : s = signifkan

b. Persentase *Browning*

Sumber	Db	JK	KT	F. Hitung	Pr >
Model	7	26482,79636	3783,25662	8,17	0,0003s
Perlakuan	7	26482,79636	3783,25662	8,17	0,0003s
Galat	16	7407,48153	462,96760		
Total	23	33890,27790			
R^2 = 0,781428	KV = 51,63952				

Keterangan : s = signifikan