

LAMPIRAN

LAMPIRAN 1. Surat Kelaikan Etik



**LAMPIRAN 2. Hasil Perhitungan Indikator Nekrosis Jaringan Luka Hiperglikemi**

Debris Sel		PMN		Plasma Sel	
1	16	1	64	1	30
1	11	1	47	1	28
1	13	1	39	1	27
1	19	1	45	1	30
2	30	2	55	2	23
2	28	2	59	2	26
2	28	2	50	2	21
2	24	2	64	2	22
3	17	3	38	3	22
3	16	3	40	3	20
3	14	3	38	3	17
3	17	3	43	3	20
4	27	4	40	4	25
4	29	4	54	4	21
4	25	4	37	4	26
4	26	4	42	4	25
5	21	5	34	5	25
5	29	5	40	5	29
5	30	5	36	5	28
5	22	5	29	5	26
6	27	6	63	6	20
6	23	6	44	6	14
6	23	6	52	6	16
6	29	6	43	6	18

- 1 = Kontrol + (Tikus sehat perawatan menggunakan NS)
- 2 = Kontrol - 1 (Tikus hiperglikemi perawatan menggunakan NS)
- 3 = Perlakuan 1 (Tikus hiperglikemi perawatan menggunakan basis Hidrogel)
- 4 = Perlakuan 2 (Hidrogel Binahong 2,5%)
- 5 = perlakuan 3 (Hidrogel Binahong 5%)
- 6 = Perlakuan 4 (Hidrogel Binahong 7,5%)

**LAMPIRAN 3. Hasil Pengecekan Gula Darah Tikus Penelitian**

1. Selasa, 02 Juli 2013: Sebelum penginduksian STZ

K+1. 1: 110 mg/dl	K-1. 1: 95 mg/dl	P1. 1: 96 mg/dl
K+1. 2: 103 mg/dl	K-1. 2: 98 mg/dl	P1. 2: 120 mg/dl
K+1. 3: 110 mg/dl	K-1. 3: 110 mg/dl	P1. 3: 111 mg/dl
K+1. 4: 97 mg/dl	K-1. 4: 73 mg/dl	P1. 4: 103 mg/dl
K+1. 5: 95 mg/dl	K-1. 5: 115 mg/dl	P1. 5: 110 mg/dl
P2. 1: 107 mg/dl	P3. 1: 103 mg/dl	P4. 1: 127 mg/dl
P2. 2: 120 mg/dl	P3. 2: 115 mg/dl	P4. 2: 105 mg/dl
P2. 3: 115 mg/dl	P3. 3: 111 mg/dl	P4. 3: 100 mg/dl
P2. 4: 130 mg/dl	P3. 4: 111 mg/dl	P4. 4: 111 mg/dl
P2. 5: 174 mg/dl	P3. 5: 75 mg/dl	P4. 5: 147 mg/dl

2. Minggu, 07 Juli 2013: Post induksi STZ (Hari ke-5)

K+1. 1: 103 mg/dl	K-1. 1: 315 mg/dl	P1. 1: 247 mg/dl
K+1. 2: 120 mg/dl	K-1. 2: 324 mg/dl	P1. 2: 207 mg/dl
K+1. 3: 119 mg/dl	K-1. 3: 215 mg/dl	P1. 3: 337 mg/dl
K+1. 4: 115 mg/dl	K-1. 4: 273 mg/dl	P1. 4: 203 mg/dl
K+1. 5: 120 mg/dl	K-1. 5: 215 mg/dl	P1. 5: 210 mg/dl
P2. 1: 220 mg/dl	P3. 1: 359 mg/dl	P4. 1: 441 mg/dl
P2. 2: 340 mg/dl	P3. 2: 441 mg/dl	P4. 2: 400 mg/dl
P2. 3: 214 mg/dl	P3. 3: 220 mg/dl	P4. 3: 236 mg/dl
P2. 4: 230 mg/dl	P3. 4: 222 mg/dl	P4. 4: 211 mg/dl
P2. 5: 273 mg/dl	P3. 5: 275 mg/dl	P4. 5: 247 mg/dl

3. Sabtu, 13 Juli 2013: Post induksi STZ (Hari ke-11)

K+1. 1: 103 mg/dl	K-1. 1: 315 mg/dl	P1. 1: 247 mg/dl
K+1. 2: 120 mg/dl	K-1. 2: 324 mg/dl	P1. 2: 207 mg/dl
K+1. 3: 119 mg/dl	K-1. 3: 215 mg/dl	P1. 3: 337 mg/dl
K+1. 4: 111 mg/dl	K-1. 4: 273 mg/dl	P1. 4: 203 mg/dl
K+1. 5: 120 mg/dl	K-1. 5: 215 mg/dl	P1. 5: 210 mg/dl
P2. 1: 220 mg/dl	P3. 1: 359 mg/dl	P4. 1: 441 mg/dl
P2. 2: 340 mg/dl	P3. 2: 441 mg/dl	P4. 2: 400 mg/dl
P2. 3: 214 mg/dl	P3. 3: 220 mg/dl	P4. 3: 236 mg/dl
P2. 4: 230 mg/dl	P3. 4: 222 mg/dl	P4. 4: 211 mg/dl
P2. 5: 273 mg/dl	P3. 5: 275 mg/dl	P4. 5: 247 mg/dl

**LAMPIRAN 4. Analisa Data dengan IBM® SPSS® Statistics 20**

**a. Jenis Perlakuan Terhadap Rata-Rata Debris Sel**

**One-Sample Kolmogorov-Smirnov Test**

		Debris_Sel
N		24
Normal Parameters <sup>a,b</sup>	Mean	22.6667
	Std. Deviation	5.95393
	Absolute	.142
Most Extreme Differences	Positive	.121
	Negative	-.142
Kolmogorov-Smirnov Z		.694
Asymp. Sig. (2-tailed)		.721

a. Test distribution is Normal.

b. Calculated from data.

**Uji Homogenitas**

**Test of Homogeneity of Variance**

		Levene Statistic	df1	df2	Sig.
Debris_Sel	Based on Mean	4.287	5	18	.010
	Based on Median	3.382	5	18	.025
	Based on Median and with adjusted df	3.382	5	11.748	.040
	Based on trimmed mean	4.218	5	18	.010

**Uji Kruskal-Wallis Test**

**Ranks**

		Treatment	N	Mean Rank
Debris_Sel	Kontrol +		4	3.88
	Kontrol -		4	18.38
	P1		4	5.13
	P2		4	16.63
	P3		4	15.88
	P4		4	15.13
	Total		24	

**Test Statistics<sup>a,b</sup>**

		Debris_Sel
Chi-Square		15.957
df		5
Asymp. Sig.		.007

a. Kruskal Wallis Test

b. Grouping Variable:

Treatment

### Uji Perbandingan Tukey's

#### Multiple Comparisons

Dependent Variable: Debris\_Sel  
Tukey HSD

(I) Treatment	(J) Treatment	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol +	Kontrol -	-12.75000*	2.12459	.000	-19.5020	-5.9980
	P1	-1.25000	2.12459	.991	-8.0020	5.5020
	P2	-12.00000*	2.12459	.000	-18.7520	-5.2480
	P3	-10.75000*	2.12459	.001	-17.5020	-3.9980
Kontrol -	P4	-10.75000*	2.12459	.001	-17.5020	-3.9980
	Kontrol +	12.75000*	2.12459	.000	5.9980	19.5020
	P1	11.50000*	2.12459	.000	4.7480	18.2520
	P2	.75000	2.12459	.999	-6.0020	7.5020
P1	P3	2.00000	2.12459	.930	-4.7520	8.7520
	P4	2.00000	2.12459	.930	-4.7520	8.7520
	Kontrol +	1.25000	2.12459	.991	-5.5020	8.0020
	Kontrol -	-11.50000*	2.12459	.000	-18.2520	-4.7480
P2	P2	-10.75000*	2.12459	.001	-17.5020	-3.9980
	P3	-9.50000*	2.12459	.003	-16.2520	-2.7480
	P4	-9.50000*	2.12459	.003	-16.2520	-2.7480
	Kontrol +	12.00000*	2.12459	.000	5.2480	18.7520
P3	Kontrol -	-.75000	2.12459	.999	-7.5020	6.0020
	P1	10.75000*	2.12459	.001	3.9980	17.5020
	P3	1.25000	2.12459	.991	-5.5020	8.0020
	P4	1.25000	2.12459	.991	-5.5020	8.0020
P4	Kontrol +	10.75000*	2.12459	.001	3.9980	17.5020
	Kontrol -	-2.00000	2.12459	.930	-8.7520	4.7520
	P1	9.50000*	2.12459	.003	2.7480	16.2520
	P2	-1.25000	2.12459	.991	-8.0020	5.5020
P4	P4	.00000	2.12459	1.000	-6.7520	6.7520
	Kontrol +	10.75000*	2.12459	.001	3.9980	17.5020
	Kontrol -	-2.00000	2.12459	.930	-8.7520	4.7520
	P1	9.50000*	2.12459	.003	2.7480	16.2520
P4	P2	-1.25000	2.12459	.991	-8.0020	5.5020
	P3	.00000	2.12459	1.000	-6.7520	6.7520

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

### Homogeneous Subsets

Debris\_Sel

Tukey HSD

Treatment	N	Subset for alpha = 0.05	
		1	2
Kontrol +	4	14.7500	
P1	4	16.0000	
P3	4		25.5000
P4	4		25.5000

P2	4		26.7500
Kontrol -	4		27.5000
Sig.		.991	.930

Means for groups in homogeneous subsets are displayed.  
 a. Uses Harmonic Mean Sample Size = 4.000.

**b. Jenis Perlakuan Terhadap PMN**

**One-Sample Kolmogorov-Smirnov Test**

		PMN
N		24
Normal Parameters <sup>a,b</sup>	Mean	45.6667
	Std. Deviation	9.86723
Most Extreme Differences	Absolute	.152
	Positive	.152
	Negative	-.086
Kolmogorov-Smirnov Z		.744
Asymp. Sig. (2-tailed)		.637

a. Test distribution is Normal.  
 b. Calculated from data.

**Uji Homogenitas**

**Test of Homogeneity of Variance**

	Levene Statistic	df1	df2	Sig.
Based on Mean	1.305	5	18	.306
Based on Median	.684	5	18	.641
PMN Based on Median and with adjusted df	.684	5	9.990	.646
Based on trimmed mean	1.190	5	18	.353

**Analisis Ragam (ANOVA)**

**ANOVA**

PMN	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1285.333	5	257.067	4.850	.006
Within Groups	954.000	18	53.000		
Total	2239.333	23			

**Uji Tukey's**

**Multiple Comparisons**

Dependent Variable: PMN  
 Tukey HSD

(I) Treatment	(J) Treatment	Mean Difference	Std. Error	Sig.	95% Confidence Interval
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		(I-J)			Lower Bound	Upper Bound
Kontrol +	Kontrol -	-8.25000	5.14782	.607	-24.6099	8.1099
	P1	9.00000	5.14782	.520	-7.3599	25.3599
	P2	5.50000	5.14782	.887	-10.8599	21.8599
	P3	14.00000	5.14782	.119	-2.3599	30.3599
Kontrol -	P4	-1.75000	5.14782	.999	-18.1099	14.6099
	Kontrol +	8.25000	5.14782	.607	-8.1099	24.6099
	P1	17.25000	5.14782	.035	.8901	33.6099
	P2	13.75000	5.14782	.130	-2.6099	30.1099
P1	P3	22.25000	5.14782	.005	5.8901	38.6099
	P4	6.50000	5.14782	.801	-9.8599	22.8599
	Kontrol +	-9.00000	5.14782	.520	-25.3599	7.3599
	Kontrol -	-17.25000	5.14782	.035	-33.6099	-.8901
P2	P2	-3.50000	5.14782	.982	-19.8599	12.8599
	P3	5.00000	5.14782	.921	-11.3599	21.3599
	P4	-10.75000	5.14782	.336	-27.1099	5.6099
	Kontrol +	-5.50000	5.14782	.887	-21.8599	10.8599
P3	Kontrol -	-13.75000	5.14782	.130	-30.1099	2.6099
	P1	3.50000	5.14782	.982	-12.8599	19.8599
	P3	8.50000	5.14782	.578	-7.8599	24.8599
	P4	-7.25000	5.14782	.722	-23.6099	9.1099
P4	Kontrol +	-14.00000	5.14782	.119	-30.3599	2.3599
	Kontrol -	-22.25000	5.14782	.005	-38.6099	-5.8901
	P1	-5.00000	5.14782	.921	-21.3599	11.3599
	P2	-8.50000	5.14782	.578	-24.8599	7.8599
P4	P4	-15.75000	5.14782	.063	-32.1099	.6099
	Kontrol +	1.75000	5.14782	.999	-14.6099	18.1099
	Kontrol -	-6.50000	5.14782	.801	-22.8599	9.8599
	P1	10.75000	5.14782	.336	-5.6099	27.1099
P4	P2	7.25000	5.14782	.722	-9.1099	23.6099
	P3	15.75000	5.14782	.063	-6.6099	32.1099

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

### Homogeneous Subsets

PMN			
Tukey HSD			
Treatment	N	Subset for alpha = 0.05	
		1	2
P3	4	34.7500	
P1	4	39.7500	
P2	4	43.2500	43.2500
Kontrol +	4	48.7500	48.7500
P4	4	50.5000	50.5000
Kontrol -	4		57.0000
Sig.		.063	.130

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.

**c. Jenis Perlakuan Terhadap Plasma Sel**

**One-Sample Kolmogorov-Smirnov Test**

		Plasma_Sel
N		24
Normal Parameters <sup>a,b</sup>	Mean	23.2917
	Std. Deviation	4.49617
	Absolute	.148
Most Extreme Differences	Positive	.071
	Negative	-.148
Kolmogorov-Smirnov Z		.725
Asymp. Sig. (2-tailed)		.669

a. Test distribution is Normal.

b. Calculated from data.

**Uji Homogenitas**

**Test of Homogeneity of Variance**

		Levene Statistic	df1	df2	Sig.
Plasma_Sel	Based on Mean	.242	5	18	.939
	Based on Median	.210	5	18	.954
	Based on Median and with adjusted df	.210	5	11.955	.952
	Based on trimmed mean	.232	5	18	.943

**Analisis Ragam (ANOVA)**

**ANOVA**

Plasma_Sel					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	386.708	5	77.342	17.791	.000
Within Groups	78.250	18	4.347		
Total	464.958	23			

**Uji Tukey's**

**Multiple Comparisons**

Dependent Variable: Plasma\_Sel

Tukey HSD

(I) Treatment	(J) Treatment	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol +	Kontrol -	5.75000 <sup>*</sup>	1.47432	.011	1.0646	10.4354
	P1	9.00000 <sup>*</sup>	1.47432	.000	4.3146	13.6854
	P2	4.50000	1.47432	.064	-.1854	9.1854
	P3	1.75000	1.47432	.837	-2.9354	6.4354
Kontrol -	P4	11.75000 <sup>*</sup>	1.47432	.000	7.0646	16.4354
	Kontrol +	-5.75000 <sup>*</sup>	1.47432	.011	-10.4354	-1.0646
	P1	3.25000	1.47432	.283	-1.4354	7.9354



P1	P2	-1.25000	1.47432	.954	-5.9354	3.4354
	P3	-4.00000	1.47432	.121	-8.6854	.6854
	P4	6.00000	1.47432	.008	1.3146	10.6854
	Kontrol +	-9.00000	1.47432	.000	-13.6854	-4.3146
P2	Kontrol -	-3.25000	1.47432	.283	-7.9354	1.4354
	P2	-4.50000	1.47432	.064	-9.1854	.1854
	P3	-7.25000	1.47432	.001	-11.9354	-2.5646
	P4	2.75000	1.47432	.453	-1.9354	7.4354
P3	Kontrol +	-4.50000	1.47432	.064	-9.1854	.1854
	Kontrol -	1.25000	1.47432	.954	-3.4354	5.9354
	P1	4.50000	1.47432	.064	-.1854	9.1854
	P3	-2.75000	1.47432	.453	-7.4354	1.9354
P4	P4	7.25000	1.47432	.001	2.5646	11.9354
	Kontrol +	-1.75000	1.47432	.837	-6.4354	2.9354
	Kontrol -	4.00000	1.47432	.121	-.6854	8.6854
	P1	7.25000	1.47432	.001	2.5646	11.9354
P4	P2	2.75000	1.47432	.453	-1.9354	7.4354
	P4	10.00000	1.47432	.000	5.3146	14.6854
	Kontrol +	-11.75000	1.47432	.000	-16.4354	-7.0646
	Kontrol -	-6.00000	1.47432	.008	-10.6854	-1.3146
P4	P1	-2.75000	1.47432	.453	-7.4354	1.9354
	P2	-7.25000	1.47432	.001	-11.9354	-2.5646
	P3	-10.00000	1.47432	.000	-14.6854	-5.3146

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

### Homogeneous Subsets

Plasma\_Sel

Tukey HSD

Treatment	N	Subset for alpha = 0.05			
		1	2	3	4
P4	4	17.0000			
P1	4	19.7500	19.7500		
Kontrol -	4		23.0000	23.0000	
P2	4		24.2500	24.2500	24.2500
P3	4			27.0000	27.0000
Kontrol +	4				28.7500
Sig.		.453	.064	.121	.064

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.

**LAMPIRAN 5. Pernyataan Keaslian Tulisan****PERNYATAAN KEASLIAN TULISAN**

Saya yang bertanda tangan di bawah ini:

Nama : M Taufik Bachtiar  
NIM : 105070200131008  
Jurusan : Ilmu Keperawatan  
Fakultas Kedokteran Universitas Brawijaya

menyatakan dengan sebenarnya bahwa Tugas Akhir yang saya tulis ini benar-benar hasil karya saya sendiri, bukan merupakan pengambilalihan tulisan atau pikiran orang lain yang saya akui sebagai tulisan atau pikiran saya sendiri. Apabila di kemudian hari dapat dibuktikan bahwa Tugas Akhir ini adalah hasil jiplakan, maka saya bersedia menerima sanksi atas perbuatan tersebut.

Malang, 14 Mei 2014

Yang membuat pernyataan,

M Taufik Bachtiar  
NIM. 105070200131008

### Lampiran 6. Dokumentasi Penelitian



Gambar 1. Penyuntikan Ketamin



Gambar 2. Pembuatan batas luka



Gambar 3. Pembuatan luka eksisi



Gambar 4. Euthanasia tikus



Gambar 5. Benetuk balutan luka pada tikus



Gambar 6. Penimbangan berat badan tikus



**Gambar 7. Tikus studi pendahuluan**



**Gambar 8. Autoclaf set rawat luka steril**



**Gambar 9. Penyuntikan STZ**



**Gambar 10. Pencukuran bulu tikus sebelum diambil jaringan lukanya**



Gambar 11. Pengambilan jaringan luka setelah 12 hari perawatan luka



Gambar 12. setiap kandang 1 tikus



Gambar 13. Penimbangan makanan tikus penelitian



Gambar 14. Bahan makanan tikus penelitian



Gambar 15. Hidrogel Binahong dengan konsentrasi 2,5%, 5%, 7,5%



Gambar 16. Pengukuran gula darah tikus penelitian

## CURRICULUM VITAE

### M Taufik Bachtiar



#### Alamat Asal:

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**Date of birth:** May 23<sup>th</sup>, 1992

**Sex:** Male

Employment # (NIM): 105070200131008

Hobby: Olah Raga (Futsal, Sepak Bola), Travelling, Reading.

**Motto:** "Bismillah, Hari Ini Harus Lebih Baik Dari Kemarin"

### Riwayat Pendidikan

1996 - 1998	TK Ria, Gumukmas, Jember
1998 - 2004	SDNU Bagorejo III, Karang anyar, Jember
2004 - 2007	SMPN 1 Kencong, Kencong, Jember
2007 - 2010	SMAN 4 Jember
2010 - Sekarang	Department of Nursing Study Medical Faculty – Brawijaya University

### Pengalaman Organisasi

2010 - 2011	LSIM FKUB (Lembaga Study Ilmiah Mahasiswa) <b>Anggota</b> LAKESMA FKUB (Lembaga Kesehatan Mahasiswa) <b>Anggota</b> BMFC FKUB (Brawijaya Medical Foot Ball Club) <b>Anggota dan Bendahara</b>
2011 - 2012	PRD LSIM FKUB (Public Relation) <b>Staff</b>
2012 - 2013	PRD LSIM FKUB (Public Relation) <b>Kepala Department</b>
2013 - 2014	DPP LSIM FKUB (Dewan Pengawasan dan Pertimbangan Organisasi) <b>Anggota</b>

### Karya Yang Penah Dibuat

- |    |   |                          |      |
|----|---|--------------------------|------|
| 1. | Lektin pada Pisang sebagai Imunostimulator Virus HIV pada Tubuh Manusia   | PKM-GT MABA              | 2010 |
| 2. | “BETE’ CRUNCH” :Sereal SULE MANIS<br>Nutrisi Tepat Guna Obesitas Berbasis Bekatul, Teh, Susu Kedelai, Madu dan Kayu Manis   | PKM-GT                   | 2011 |
| 3. | CoT(CYCLE OF TRASH) Dengan Memberdayakan Pemulung Sebagai Solusi Mengatasi Limbah Padat Rumah Sakit Yang Terlupakan   | Esai Medical Fiesta 2011 | 2011 |
| 4. | DASUDU (Daya Guna Susu Duwet) Sebagai Langkah Tingkatkan Kreativitas Peternak Terhadap Produktivitas Hasil Peternakan di Desa Duwet, Kecamatan Tumpang, Kabupaten Malang.   | PKMM                     | 2011 |
| 6. | “Mac-G” (MYOPIA COMPLEMENTARY THERAPY GLASSES PROGRAM): Program Kacamata Terapi Uuntuk Miopi Berbasis Terapi Komplementer   | PKMKC                    | 2011 |
| 7. | NEUREC (NEURODEGENERATIVE CURED BY HSCs): Inovasi Terapi Alternatif Regenerasi Sel Saraf Pada Alzheimer Disease Berbasis  | PKMP                     | 2012 |
| 8. | Mobilisasi Hematopoietic Stem Cells<br>Efektifitas Hidrogel Binahong ( <i>Anredera cordifolia</i> (Ten.) Steenis.) Terhadap Percepatan penyembuhan Luka Pada Ulkus Derajat II Dengan Model Tikus Wistar Jantan Diabetes                   | LIPI                     | 2012 |
| 9. | Moeslem Worship Device Practical : Inovasi Usaha Perangkat Ibadah Praktis Umat Muslim   | PKMK                     | 2012 |
| 10 | POTENSI <i>Proanthocyanidin</i> PADA EKSTRAK BIJI ANGGUR MERAH PROBOLINGGO ( <i>Vitis vinifera</i> ) SEBAGAI PENCEGAHAN TERHADAP KEPARAHAN KERUSAKAN STRUKTUR JANTUNG PADA IKAN ZEBRA DEWASA ( <i>Danio Rerio</i> ) DENGAN INFARK MIOKARD | Penelitian Mandiri       | 2013 |
| 11 | LUTIO <sup>tab</sup> (Luteolin <i>Apium graveolens</i> Extract-in-Mucoadhesive Polymer Tablet): Antioksidan Poten Neurophathy Tikus Putih ( <i>Rattus norvegicus</i> ) Galur Wistar Model DM II   | PKMP                     | 2013 |
| 12 | <i>Case Analyzes Program with Three Evaluation Nodes</i> (CAPTEN): Inovasi Aplikatif Model Pembelajaran Pendidikan Karakter Hidup Sehat di Sekolah Dasar Negeri Merjosari 4 Malan   | PKMM                     | 2013 |
| 13 | Co-OSICA (Combination of <i>Ocimum Basilicum</i> and <i>Punica Granatum</i> ): Inovasi Terapi Penyakit Paru Obstruksi Kronis (PPOK) Menggunakan Pendekatan Kombinasi Terapi Anti-Inflammatory, Anti-Bacterial, dan Anti-Oxidant           | ATMA CORDIS              | 2013 |
| 14 | INOVASI <i>Saccharomyces cerevisiae</i> DALAM KULTUR MOLASE SEBAGAI TERAPI ALTERNATIF REGENERASI SEL PADA SIROSIS HEPAR BERBASIS MOBILISASI STEM CELLS  | MAJESTY                  | 2013 |