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LAMPIRAN

Lampiran 1. Komposisi Media Maturasi Secara *In Vitro*

| No | Nama Bahan | Volume |
|----|---|--------------|
| 1 | TCM-199 | 1800 μ l |
| 2 | Serum FBS (fetal bovine serum) | 200 μ l |
| 3 | PMSG (pregnant mare serum gonadotropin) | 20 μ l |
| 4 | hCG (human chorionic gonadotropin) | 20 μ l |
| 5 | Gentamycin | 4 μ l |

Lampiran 2. Komposisi Media Fertilisasi Secara *In Vitro*

| No | Nama Bahan | Volume |
|----|---|-------------|
| 1 | Ultra pure water | 50 ml |
| 2 | NaCl (natrium/sodium chloride) | 0,2629 gram |
| 3 | KCL (kalium chloride) | 0,0447 gram |
| 4 | NaHCO ₃ (natrium bicarbonate) | 0,1050 gram |
| 5 | NaH ₂ PO ₄ (natrium dihydrogen phosphate monohydrate) | 0,0030 gram |
| 6 | MgSO ₄ 7H ₂ O (magnesium sulfat-heptahydrate) | 0,0061 gram |
| 7 | Sodium lactate 60% syrup | 0,095 ml |
| 8 | Hepes | 0,1191 gram |
| 9 | CaCl ₂ 2H ₂ O (calcium chloride dihydrate) | 0,0588 gram |
| 10 | Sodium pyruvate | 0,0110 gram |
| 11 | Caffeine anhydrous | 0,0194 gram |
| 12 | BSA (fatty acid free) fraksi V | 0,2500 gram |
| 13 | Gentamycin | 10 μ l |

Lampiran 3 Data Transformasi Penelitian

| Perlakuan | Ulangan | GV | GVBD | MI | MII | FERTILISASI |
|-----------|---------|-------|-------|-------|-------|-------------|
| 1 | 1 | 0 | 0 | 42,42 | 47,58 | 0 |
| 1 | 2 | 30 | 0 | 16,74 | 54,76 | 24,12 |
| 1 | 3 | 0 | 0 | 17,56 | 72,44 | 31,76 |
| 1 | 4 | 0 | 0 | 0 | 90 | 45 |
| 1 | 5 | 15,79 | 0 | 15,45 | 67,78 | 36,69 |
| 2 | 1 | 26,56 | 50,77 | 26,56 | 0 | 0 |
| 2 | 2 | 29 | 29 | 29 | 32,83 | 14,06 |
| 2 | 3 | 35,24 | 15 | 31,11 | 35,24 | 0 |
| 2 | 4 | 28,11 | 19,46 | 35,24 | 35,24 | 0 |
| 2 | 5 | 22,22 | 32,33 | 32,33 | 32,33 | 22,22 |
| 3 | 1 | 37,76 | 20,7 | 30 | 30 | 0 |
| 3 | 2 | 33,71 | 23,11 | 23,11 | 38,35 | 23,03 |
| 3 | 3 | 24,12 | 24,12 | 24,12 | 45 | 24,12 |
| 3 | 4 | 35,24 | 24,12 | 30 | 30 | 0 |
| 3 | 5 | 58,5 | 17,56 | 25,25 | 0 | 0 |
| 4 | 1 | 39,23 | 26,56 | 18,44 | 33,21 | 18,44 |
| 4 | 2 | 26,56 | 33,21 | 26,56 | 33,21 | 18,44 |
| 4 | 3 | 20,7 | 37,76 | 37,76 | 20,7 | 207 |
| 4 | 4 | 45 | 24,04 | 24,04 | 24,04 | 24,04 |
| 4 | 5 | 62,44 | 15,45 | 15,45 | 15,45 | 0 |

Lampiran 4. Hasil Uji Statistik Tingkat Pematangan Inti

GV

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|----|---------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| 1 | 5 | 9.1580 | 13.50906 | 6.04144 | -7.6157 | 25.9317 | .00 | 30.00 |
| 2 | 5 | 28.2260 | 4.70787 | 2.10543 | 22.3804 | 34.0716 | 22.22 | 35.24 |
| 3 | 5 | 37.8660 | 12.63818 | 5.65196 | 22.1736 | 53.5584 | 24.12 | 58.50 |
| 4 | 5 | 38.7860 | 16.39284 | 7.33110 | 18.4316 | 59.1404 | 20.70 | 62.44 |
| Total | 20 | 28.5090 | 16.81320 | 3.75955 | 20.6402 | 36.3778 | .00 | 62.44 |

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 2838.557 | 3 | 946.186 | 5.978 | .006 |
| Within Groups | 2532.431 | 16 | 158.277 | | |
| Total | 5370.988 | 19 | | | |

GV
LSD

| (I) Perlakuan | (J) Perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|------------------|------------------|--------------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| 1 | 2 | -19.06800* | 7.95681 | .029 | -35.9357 | -2.2003 |
| | 3 | -28.70800* | 7.95681 | .002 | -45.5757 | -11.8403 |
| | 4 | -29.62800* | 7.95681 | .002 | -46.4957 | -12.7603 |
| 2 | 1 | 19.06800* | 7.95681 | .029 | 2.2003 | 35.9357 |
| | 3 | -9.64000 | 7.95681 | .243 | -26.5077 | 7.2277 |
| | 4 | -10.56000 | 7.95681 | .203 | -27.4277 | 6.3077 |
| 3 | 1 | 28.70800* | 7.95681 | .002 | 11.8403 | 45.5757 |
| | 2 | 9.64000 | 7.95681 | .243 | -7.2277 | 26.5077 |
| | 4 | -.92000 | 7.95681 | .909 | -17.7877 | 15.9477 |
| 4 | 1 | 29.62800* | 7.95681 | .002 | 12.7603 | 46.4957 |
| | 2 | 10.56000 | 7.95681 | .203 | -6.3077 | 27.4277 |
| | 3 | .92000 | 7.95681 | .909 | -15.9477 | 17.7877 |

Descriptives

GVBD

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|----|---------|-------------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| 1 | 5 | .0000 | .00000 | .00000 | .0000 | .0000 | .00 | .00 |
| 2 | 5 | 29.3120 | 13.88836 | 6.21107 | 12.0673 | 46.5567 | 15.00 | 50.77 |
| 3 | 5 | 21.9220 | 2.81043 | 1.25686 | 18.4324 | 25.4116 | 17.56 | 24.12 |
| 4 | 5 | 27.4040 | 8.60063 | 3.84632 | 16.7249 | 38.0831 | 15.45 | 37.76 |
| Total | 20 | 19.6595 | 14.18457 | 3.17177 | 13.0209 | 26.2981 | .00 | 50.77 |

ANOVA GVBD

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|-------------------|----|-------------|--------|------|
| Between Groups | 2723.814 | 3 | 907.938 | 13.218 | .000 |
| Within Groups | 1099.024 | 16 | 68.689 | | |
| Total | 3822.838 | 19 | | | |

GVBD

LSD

| (I) Perlakuan | (J) Perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|------------------|------------------|--------------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| 1 | 2 | -29.31200* | 5.24172 | .000 | -40.4239 | -18.2001 |
| | 3 | -21.92200* | 5.24172 | .001 | -33.0339 | -10.8101 |
| | 4 | -27.40400* | 5.24172 | .000 | -38.5159 | -16.2921 |
| 2 | 1 | 29.31200* | 5.24172 | .000 | 18.2001 | 40.4239 |
| | 3 | 7.39000 | 5.24172 | .178 | -3.7219 | 18.5019 |
| | 4 | 1.90800 | 5.24172 | .721 | -9.2039 | 13.0199 |
| 3 | 1 | 21.92200* | 5.24172 | .001 | 10.8101 | 33.0339 |
| | 2 | -7.39000 | 5.24172 | .178 | -18.5019 | 3.7219 |
| | 4 | -5.48200 | 5.24172 | .311 | -16.5939 | 5.6299 |
| 4 | 1 | 27.40400* | 5.24172 | .000 | 16.2921 | 38.5159 |
| | 2 | -1.90800 | 5.24172 | .721 | -13.0199 | 9.2039 |
| | 3 | 5.48200 | 5.24172 | .311 | -5.6299 | 16.5939 |

Descriptives

| MI | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|----|---------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| | | | | | 1 | 5 | | |
| 2 | 5 | 30.8480 | 3.29229 | 1.47236 | 26.7601 | 34.9359 | 26.56 | 35.24 |
| 3 | 5 | 26.4960 | 3.28705 | 1.47002 | 22.4146 | 30.5774 | 23.11 | 30.00 |
| 4 | 5 | 24.4500 | 8.64431 | 3.86585 | 13.7167 | 35.1833 | 15.45 | 37.76 |
| Total | 20 | 25.0570 | 9.49334 | 2.12277 | 20.6140 | 29.5000 | .00 | 42.42 |

ANOVA

| MI | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 399.195 | 3 | 133.065 | 1.621 | .224 |
| Within Groups | 1313.150 | 16 | 82.072 | | |
| Total | 1712.345 | 19 | | | |

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | | |
|-------|----|---------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | Minimum | Maximum |
| 1 | 5 | 66.5120 | 16.46941 | 7.36534 | 46.0625 | 86.9615 | 47.58 | 90.00 |
| 2 | 5 | 27.1280 | 15.22425 | 6.80849 | 8.2246 | 46.0314 | .00 | 35.24 |
| 3 | 5 | 28.6700 | 17.21829 | 7.70025 | 7.2907 | 50.0493 | .00 | 45.00 |
| 4 | 5 | 25.3220 | 7.82470 | 3.49931 | 15.6063 | 35.0377 | 15.45 | 33.21 |
| Total | 20 | 36.9080 | 22.14020 | 4.95070 | 26.5461 | 47.2699 | .00 | 90.00 |

Anova

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 5870.726 | 3 | 1956.909 | 9.094 | .001 |
| Within Groups | 3442.858 | 16 | 215.179 | | |
| Total | 9313.585 | 19 | | | |

MII

LSD

| (I) | (J) | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|-----|-----|------------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| 1 | 2 | 39.38400 [*] | 9.27747 | .001 | 19.7166 | 59.0514 |
| | 3 | 37.84200 [*] | 9.27747 | .001 | 18.1746 | 57.5094 |
| | 4 | 41.19000 [*] | 9.27747 | .000 | 21.5226 | 60.8574 |
| 2 | 1 | -39.38400 [*] | 9.27747 | .001 | -59.0514 | -19.7166 |
| | 3 | -1.54200 | 9.27747 | .870 | -21.2094 | 18.1254 |
| | 4 | 1.80600 | 9.27747 | .848 | -17.8614 | 21.4734 |
| 3 | 1 | -37.84200 [*] | 9.27747 | .001 | -57.5094 | -18.1746 |
| | 2 | 1.54200 | 9.27747 | .870 | -18.1254 | 21.2094 |
| | 4 | 3.34800 | 9.27747 | .723 | -16.3194 | 23.0154 |
| 4 | 1 | -41.19000 [*] | 9.27747 | .000 | -60.8574 | -21.5226 |
| | 2 | -1.80600 | 9.27747 | .848 | -21.4734 | 17.8614 |
| | 3 | -3.34800 | 9.27747 | .723 | -23.0154 | 16.3194 |

Lampiran 5. Hasil Uji Statistik Tingkat Fertilisasi

Descriptives

FERTILISA

SI

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|----|---------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| 1 | 5 | 27.5140 | 17.15027 | 7.66983 | 6.2191 | 48.8089 | .00 | 45.00 |
| 2 | 5 | 7.2560 | 10.34607 | 4.62690 | -5.5903 | 20.1023 | .00 | 22.22 |
| 3 | 5 | 9.4300 | 12.91831 | 5.77724 | -6.6102 | 25.4702 | .00 | 24.12 |
| 4 | 5 | 16.3240 | 9.40896 | 4.20781 | 4.6412 | 28.0068 | .00 | 24.04 |
| Total | 20 | 15.1310 | 14.27683 | 3.19240 | 8.4492 | 21.8128 | .00 | 45.00 |

| ANOVA | | | | | |
|----------------|----------------|----|-------------|-------|------|
| FERTILISASI | | | | | |
| | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | 1246.395 | 3 | 415.465 | 2.531 | .094 |
| Within Groups | 2626.336 | 16 | 164.146 | | |
| Total | 3872.731 | 19 | | | |

Lampiran 6. Dokumentasi Penelitian



Pengambilan Ovarium di RPH



Pencacahan Ovarium



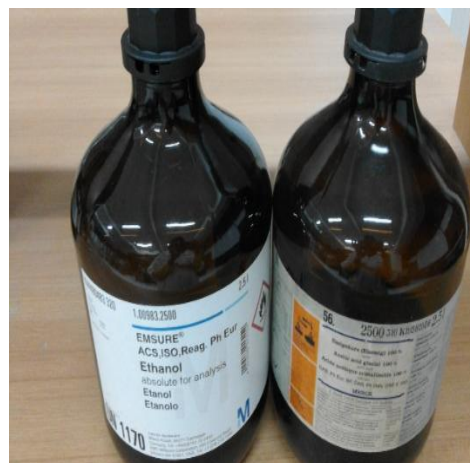
Inkubator



Fiksasi Oosit



Bahan Maturasi



Bahan Fiksasi



Disk Maturasi dan Fertlisasi



Mikropipet dan Tip



Stirrer



Bahan Fertlisasi



Bunsen



Pewarnaan Oosit



Proses Pengamatan Oosit



Proses Pembuatan Larutan Fiksasi

RIWAYAT HIDUP



Nurul Ahmad Ridwan DM, lahir di Makassar pada tanggal 26 Mei 1997. Anak ke tiga dari tiga bersaudara dari pasangan, Ridwan Badullah dan Sitti Rabiah. Penulis pernah bersekolah di SD inpres Puncak. Setelah itu penulis lanjut di sekolah menengah pertama Mts Negeri Binanga Mamuju, kemudian penulis melanjutkan sekolah ke jenjang yang lebih tinggi yaitu di SMA Negeri 1 Mamuju sampai pada tahun 2015. Kemudian penulis melanjutkan studinya pada tahun 2015 sebagai salah satu mahasiswa di Fakultas Peternakan Universitas Hasanuddin, Makassar. Selama mahasiswa, penulis aktif mengikuti kegiatan ekstra kampus, seperti Karate Black Panther dan mengikuti salah satu komunitas sepeda Makassar Maraunder.