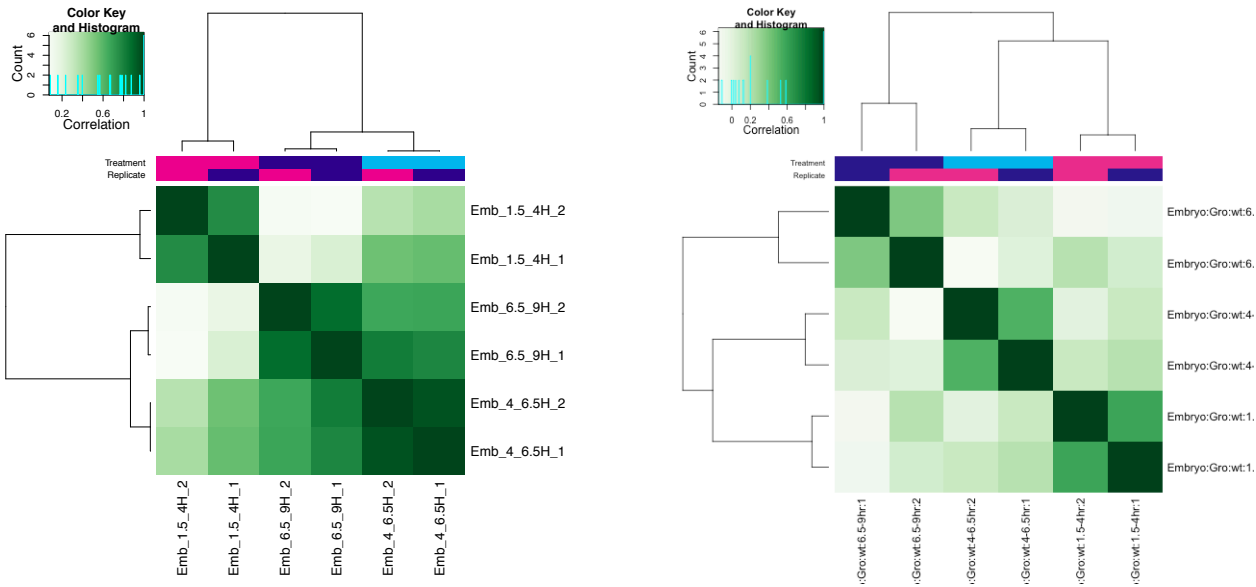


Fig. 2-a

A

| Timepoint | Replicate | Total Reads | Uniquely Aligned | Multiply Aligned | Total Aligned | Overall Alignment Rate |
|------------|-----------|-------------|------------------|------------------|---------------|------------------------|
| Input | A | 26,804,524 | 19,349,084 | 4,859,241 | 24,208,325 | 90% |
| Input | B | 22,770,618 | 16,367,817 | 4,175,412 | 20,543,229 | 90% |
| 1.5 - 4 hr | A | 22,276,144 | 8,242,625 | 2,487,432 | 10,730,057 | 48% |
| 1.5 - 4 hr | B | 23,743,733 | 5,992,455 | 1,974,028 | 7,966,483 | 34% |
| 4 - 6.5 hr | A | 19,973,255 | 7,925,951 | 2,463,045 | 10,388,996 | 52% |
| 4 - 6.5 hr | B | 17,755,470 | 8,440,270 | 2,461,968 | 10,902,238 | 61% |
| 6.5 - 9 hr | A | 18,066,141 | 7,979,752 | 2,324,797 | 10,304,549 | 57% |
| 6.5 - 9 hr | B | 22,367,998 | 8,179,454 | 2,740,544 | 10,919,998 | 49% |

B



C

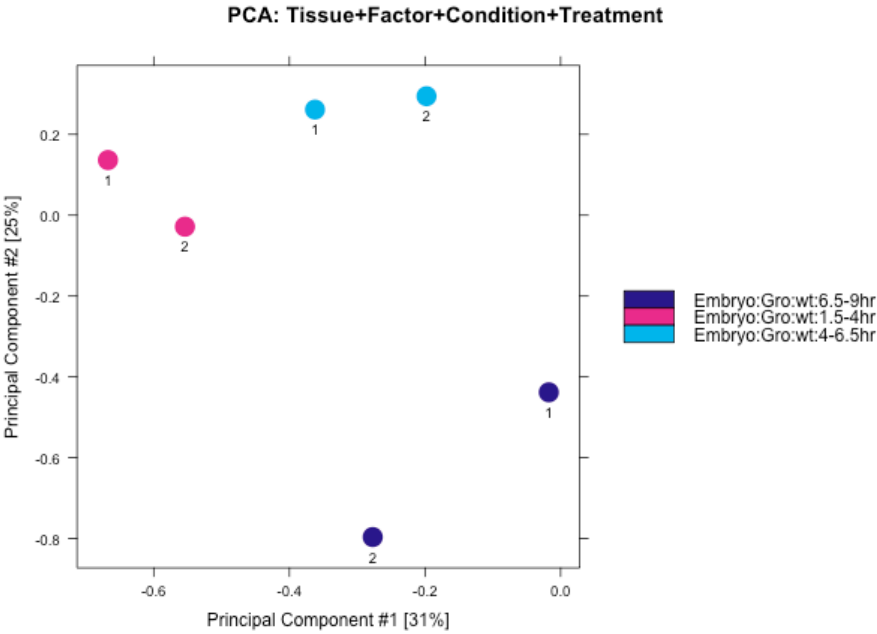


Fig. 2-b

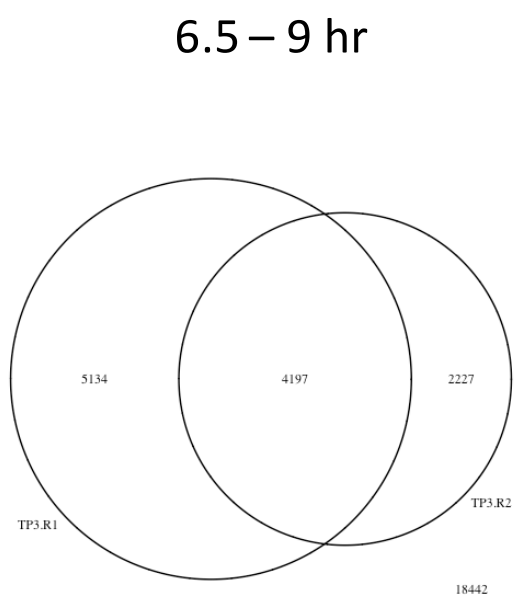
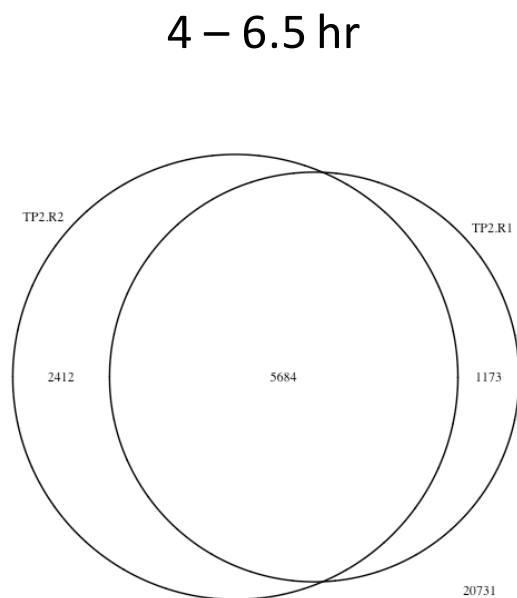
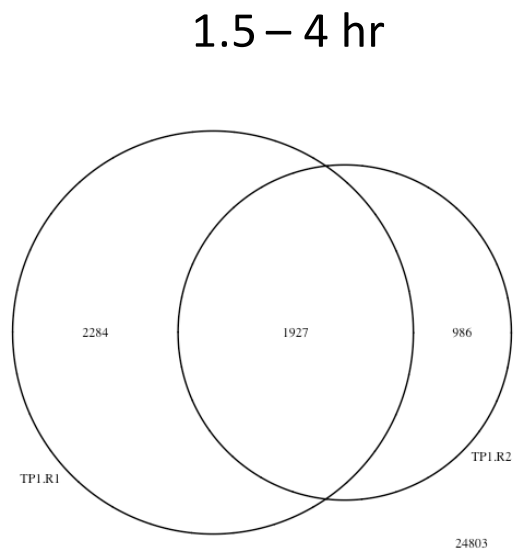
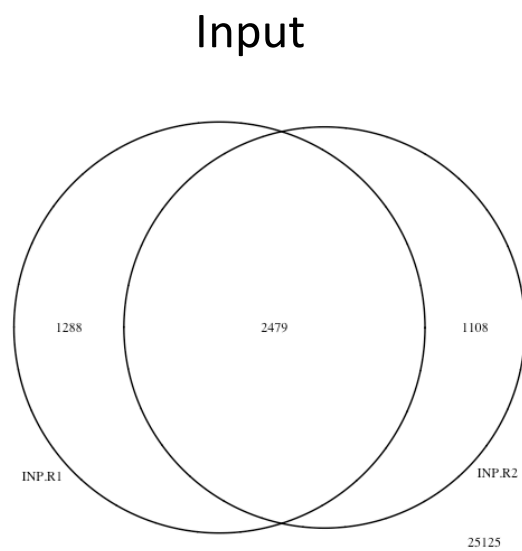
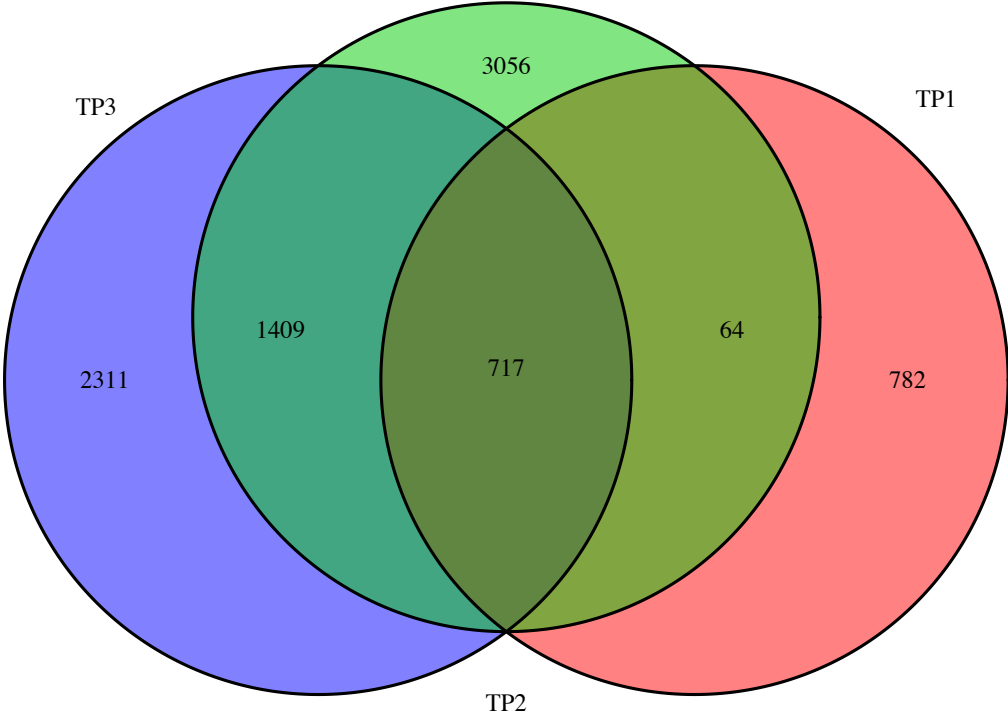


Fig. 2-c

A



B

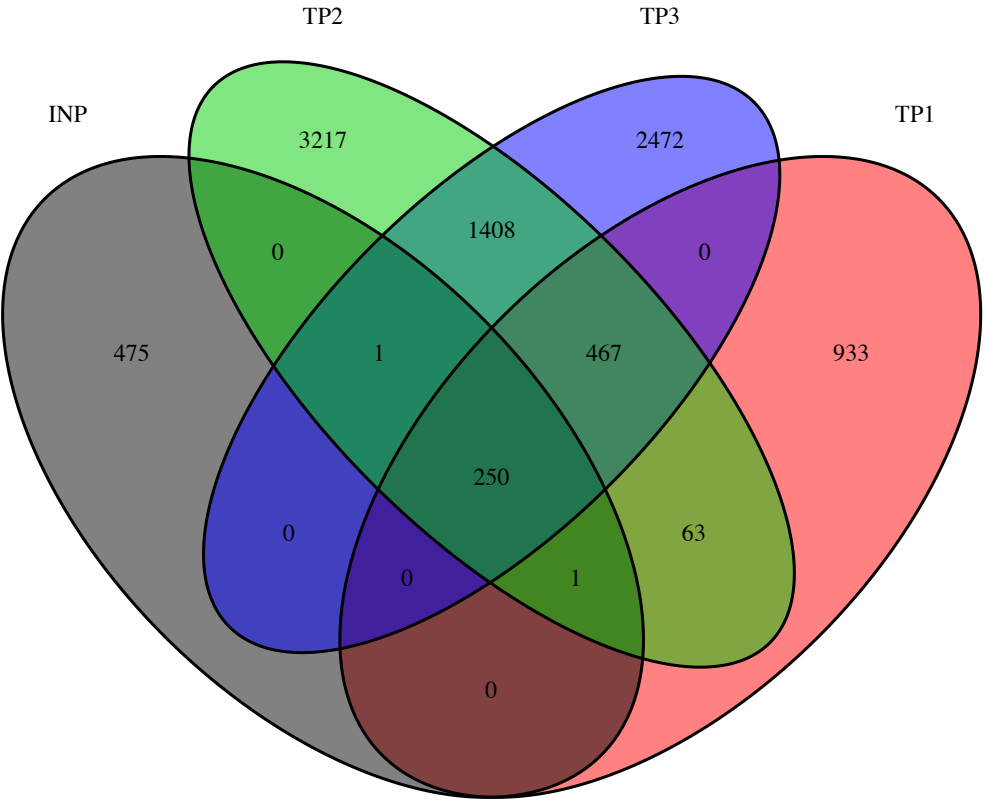


Fig. 2-d

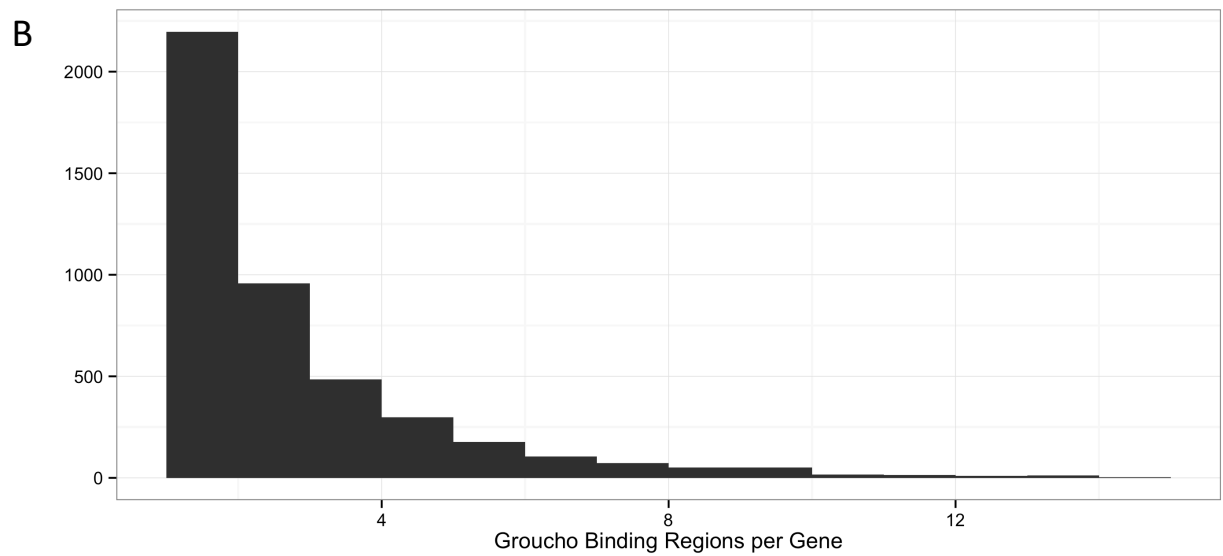
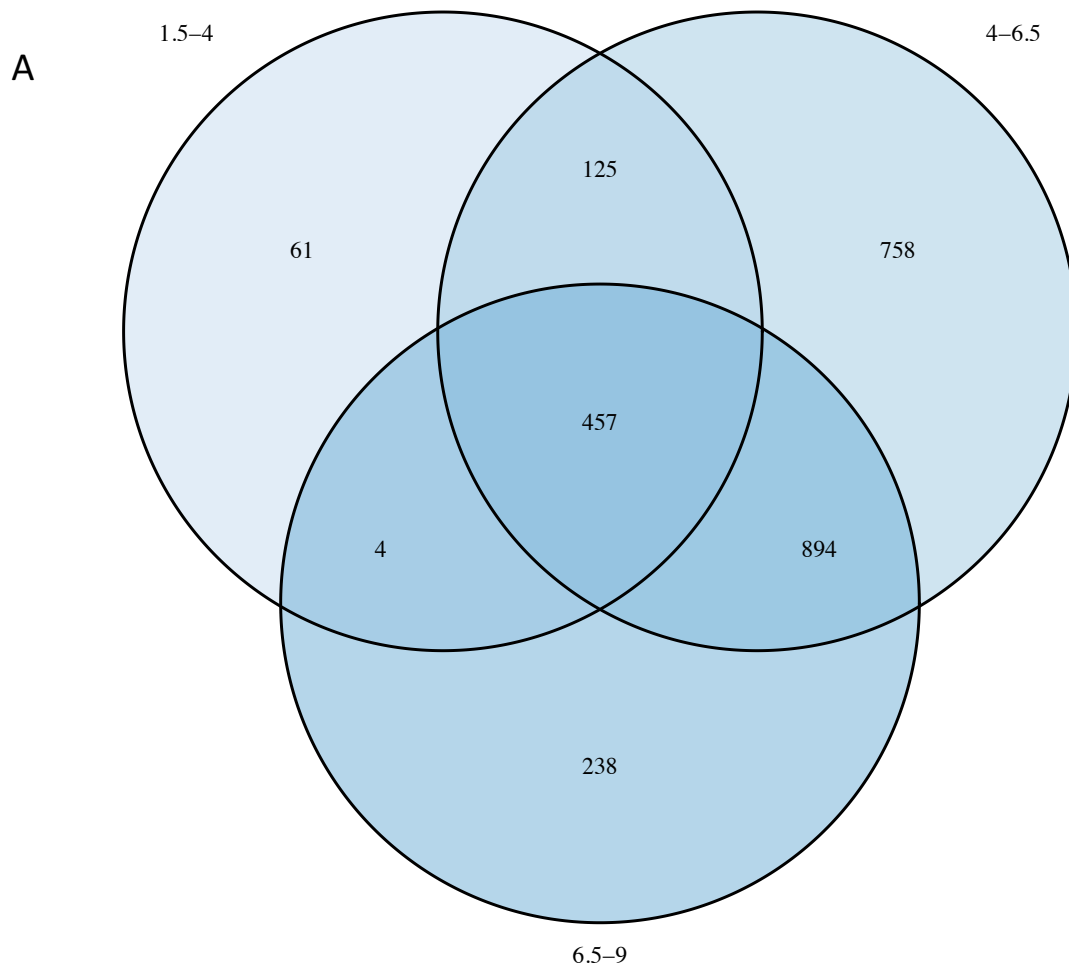


Fig. 2-h

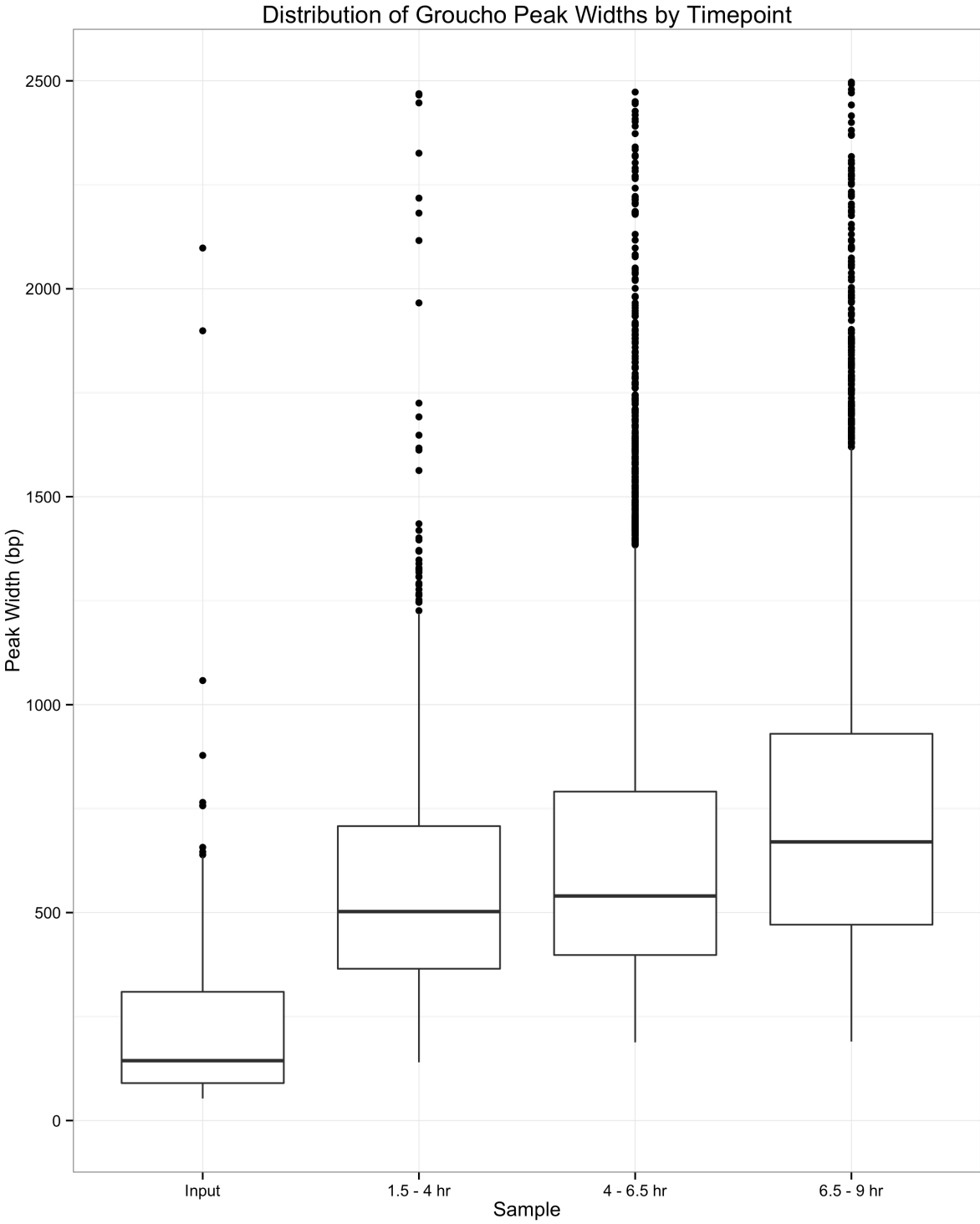
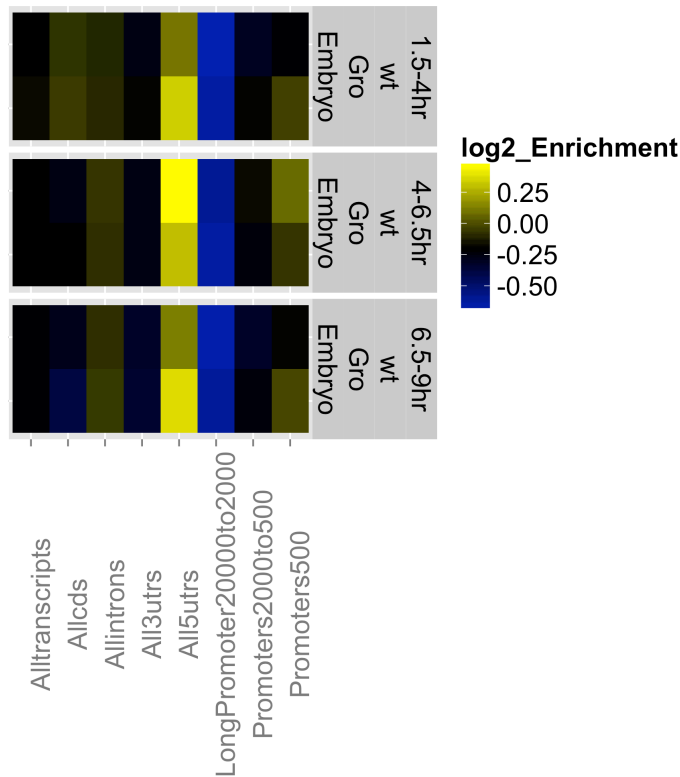


Fig. 2-e

A



B

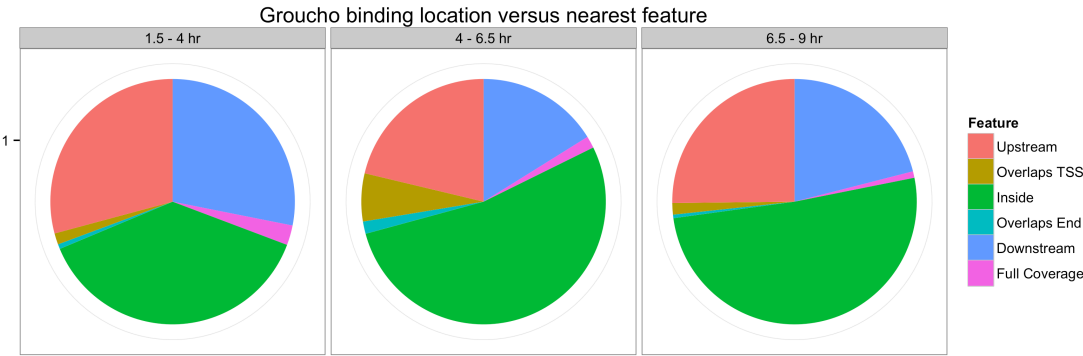


Fig. 2-f

Groucho binding location versus nearest feature

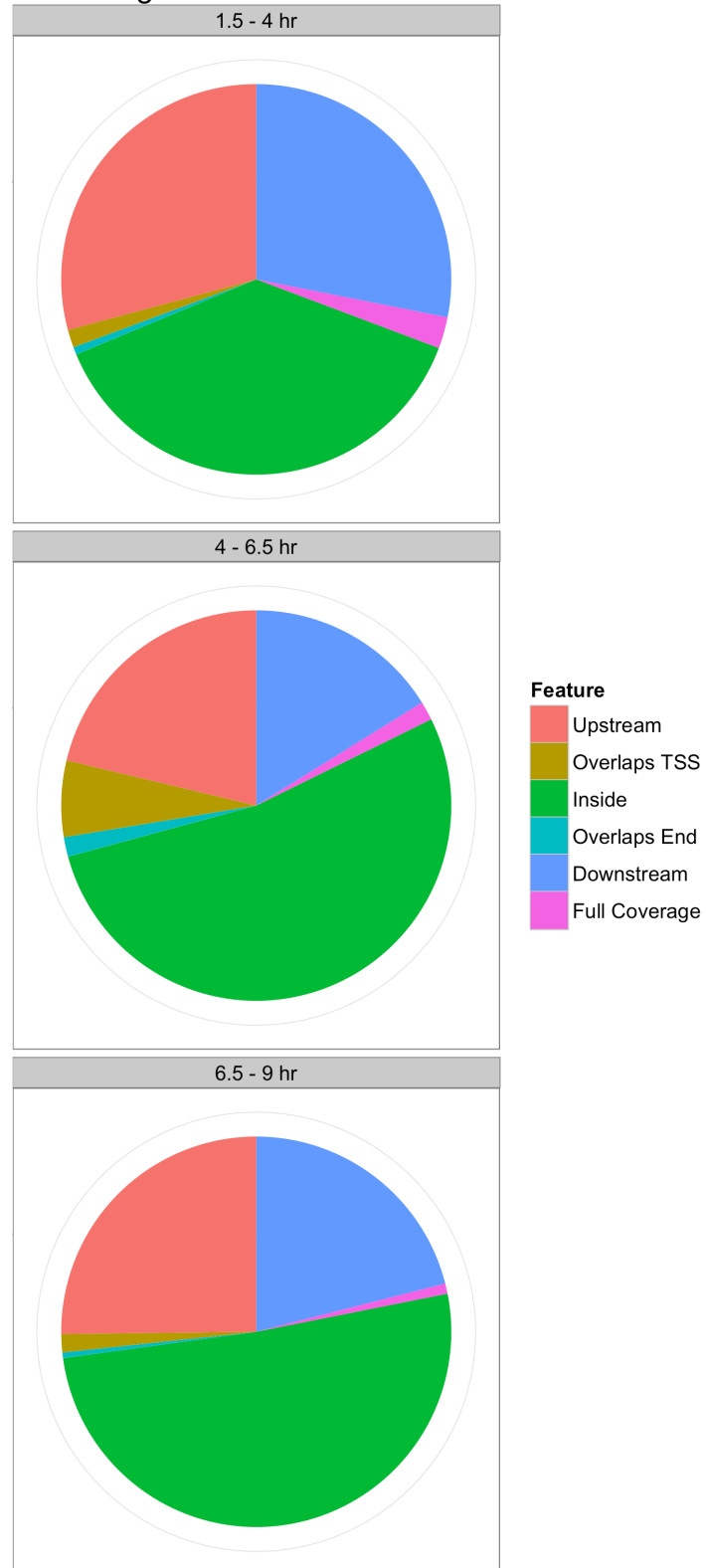
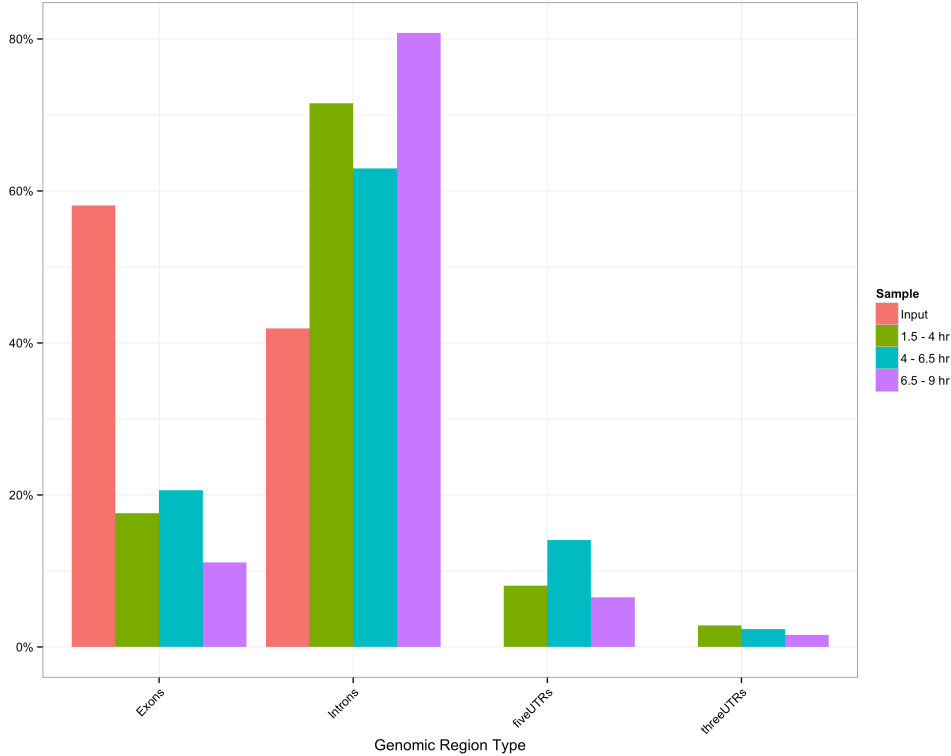


Fig. 2-g

A



B

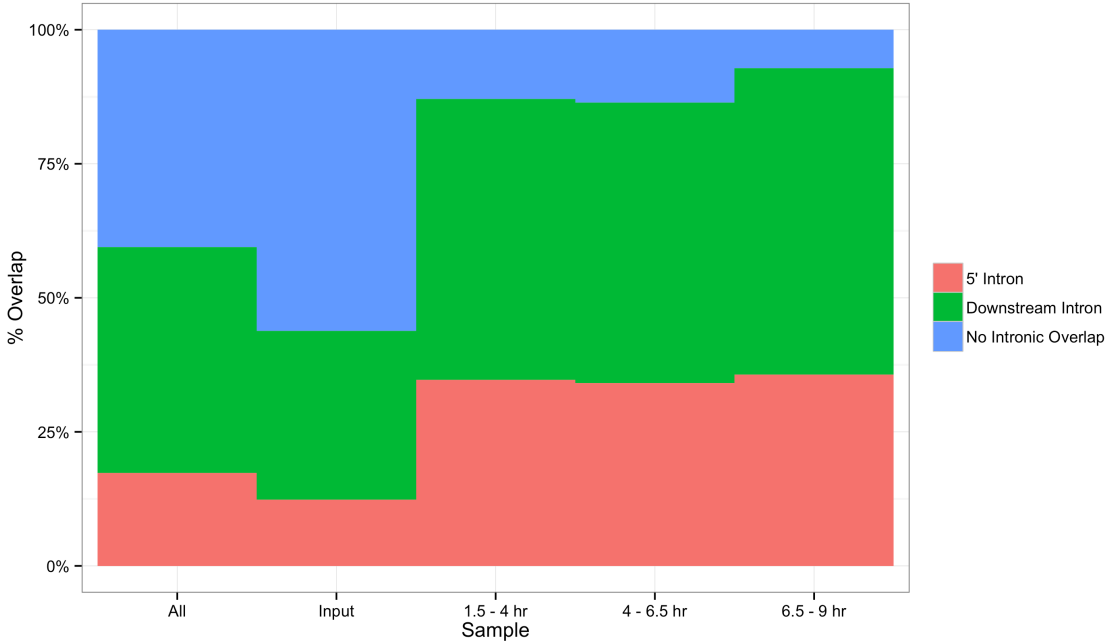


Fig. 2-j

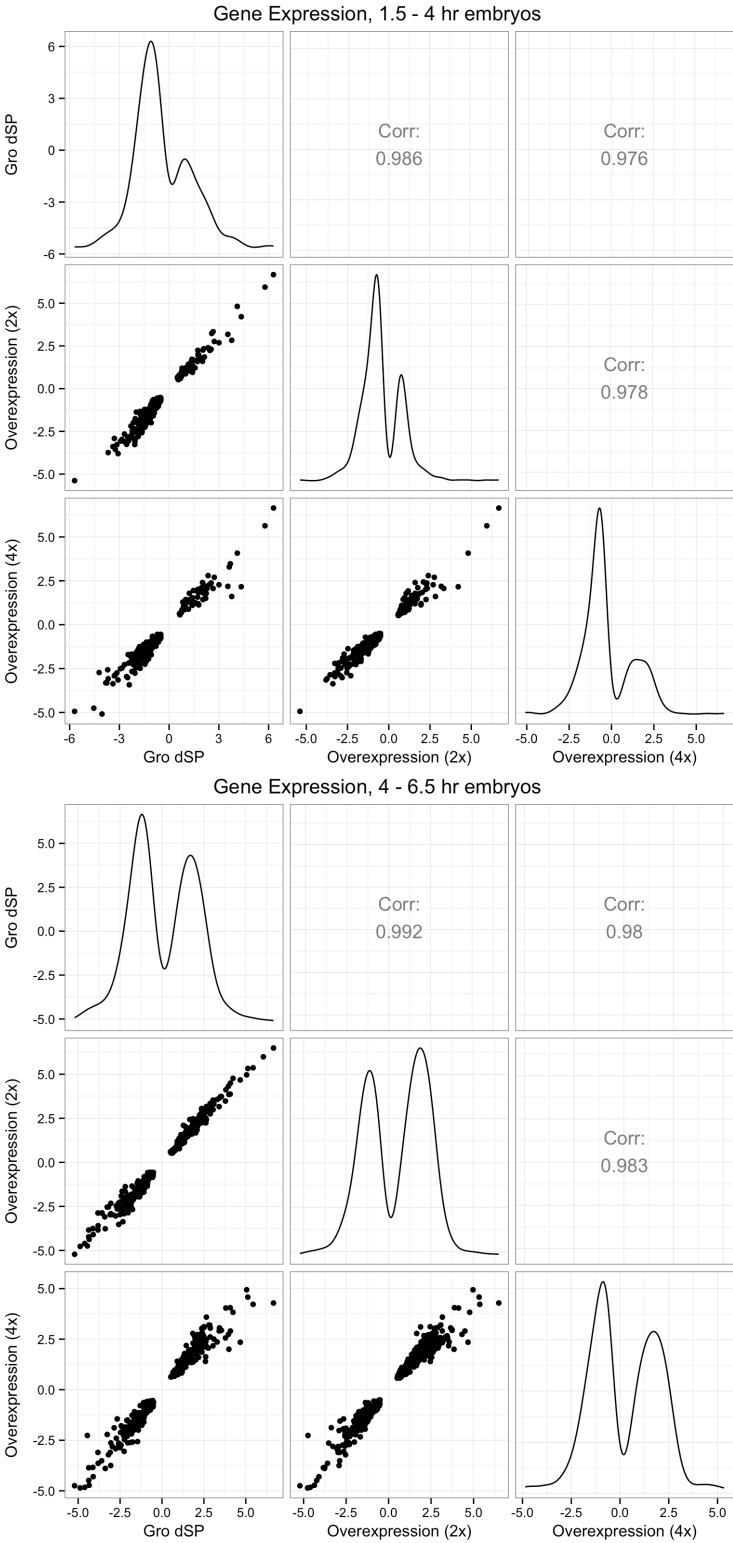


Fig. 2-j (continued)

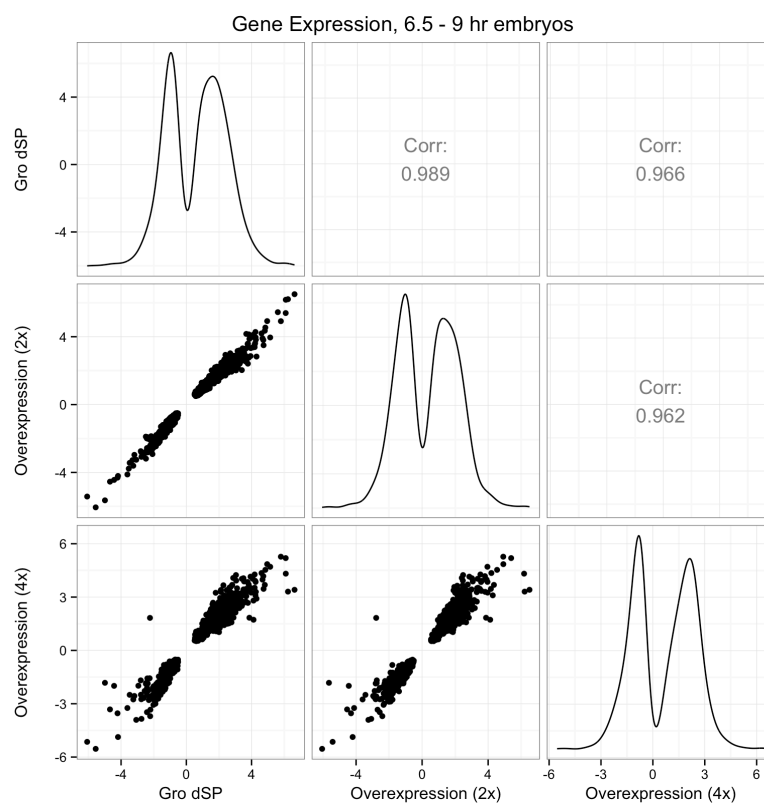


Fig. 2-k

| | | 1.5 - 4 hr | 4 - 6.5 hr | 6.5 - 9 hr |
|---------------------|------|------------|------------|------------|
| Gro LoF | Down | 1459 | 2253 | 2043 |
| Gro LoF | Up | 1437 | 1837 | 1632 |
| GroΔSP | Down | 241 | 284 | 500 |
| GroΔSP | Up | 100 | 230 | 616 |
| Overexpression (2x) | Down | 698 | 566 | 463 |
| Overexpression (2x) | Up | 244 | 599 | 496 |
| Overexpression (4x) | Down | 674 | 655 | 1171 |
| Overexpression (4x) | Up | 219 | 490 | 1204 |

Fig. 2-i

| | | Percentage of genes with internal Grouch binding | | | | | | | | |
|-------------------|------------|--|-----------|-----|------|-----------|----|--------|-----------|-----|
| | | Whole Gene | | | Exon | | | Intron | | |
| | | Down | No Change | Up | Down | No Change | Up | Down | No Change | Up |
| Gro LoF | 1.5 - 4 hr | 4% | 2% | 5% | 2% | 1% | 2% | 3% | 2% | 4% |
| | 4 - 6.5 hr | 11% | 9% | 14% | 8% | 6% | 7% | 8% | 6% | 12% |
| | 6.5 - 9 hr | 11% | 6% | 6% | 5% | 3% | 3% | 10% | 4% | 5% |
| 2x Overexpression | 1.5 - 4 hr | 15% | 2% | 2% | 7% | 1% | 1% | 11% | 1% | 1% |
| | 4 - 6.5 hr | 43% | 9% | 6% | 30% | 6% | 2% | 32% | 6% | 4% |
| | 6.5 - 9 hr | 23% | 6% | 5% | 9% | 3% | 2% | 21% | 5% | 4% |
| 4x Overexpression | 1.5 - 4 hr | 14% | 2% | 2% | 8% | 1% | 0% | 10% | 2% | 2% |
| | 4 - 6.5 hr | 42% | 9% | 6% | 30% | 6% | 3% | 32% | 6% | 3% |
| | 6.5 - 9 hr | 22% | 5% | 5% | 9% | 3% | 2% | 20% | 4% | 4% |