

Supplemental data file 1: RNAseq results

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**Sex specificity of pancreatic cancer cachexia phenotypes,
mechanisms, and treatment in mice and humans – role of Activin**

JCSM 2022

Motivation

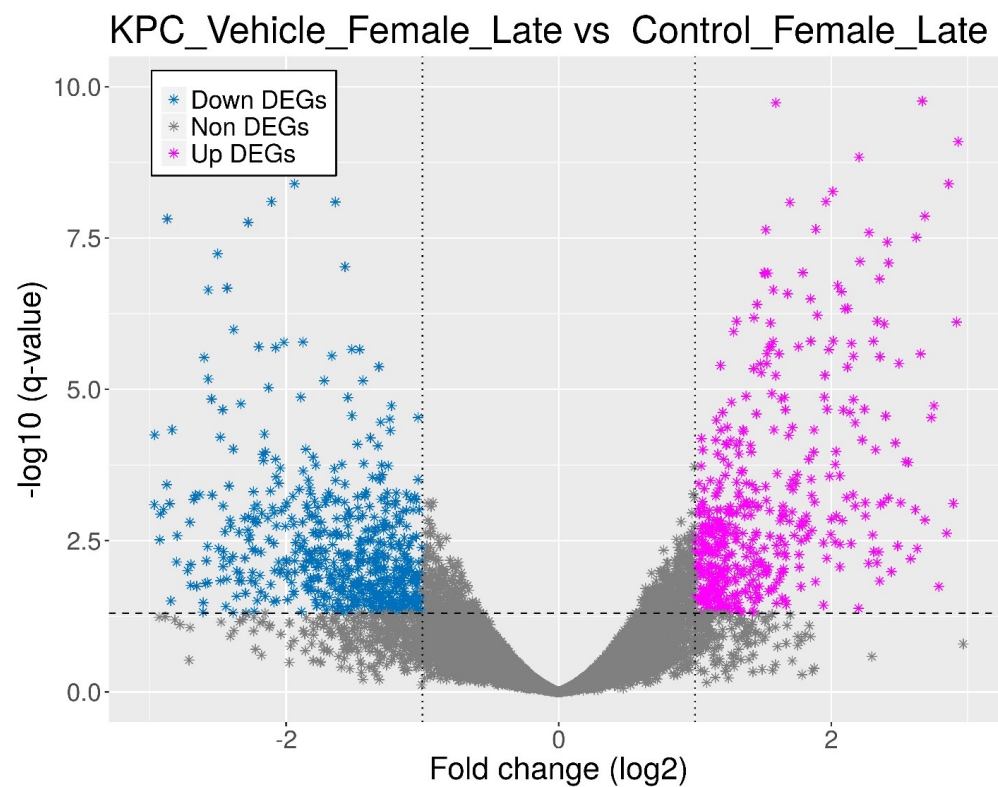
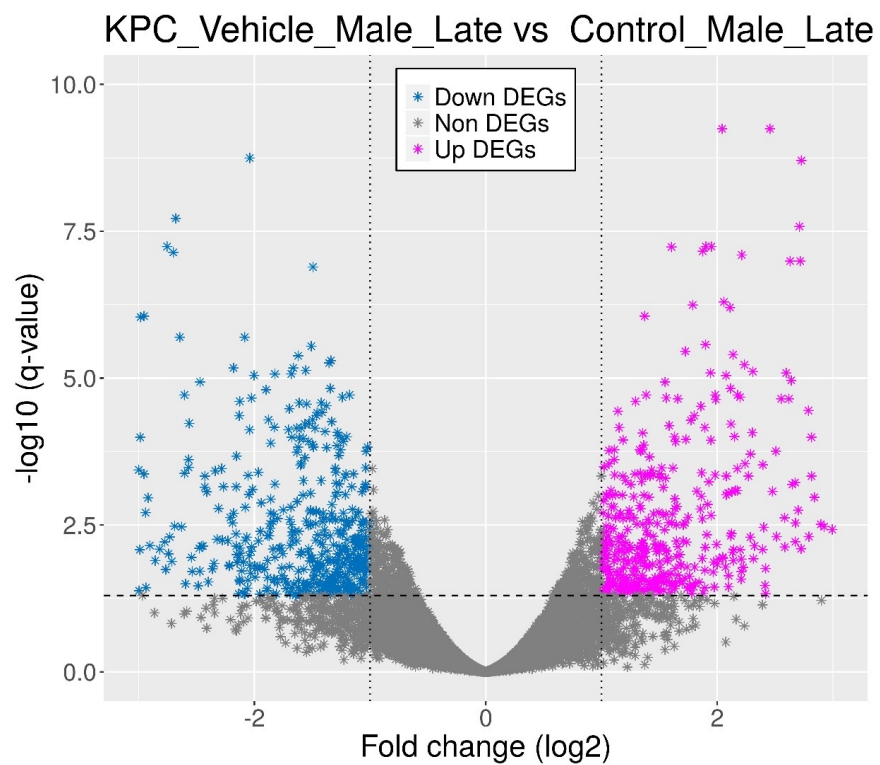
- Detect differential genes between conditions

| | | | |
|---------------|-------------------------|----|-------------------------|
| Comparison 1 | KPC_Vehicle_Male_Late | vs | Control_Male_Late |
| Comparison 2 | KPC_Vehicle_Female_Late | vs | Control_Female_Late |
| Comparison 3 | KPC_Male_Early | vs | Control_Male_Early |
| Comparison 4 | KPC_Female_Early | vs | Control_Female_Early |
| Comparison 5 | KPC_sACTR_Male_Late | vs | KPC_Vehicle_Male_Late |
| Comparison 6 | KPC_sACTR_Female_Late | vs | KPC_Vehicle_Female_Late |
| Comparison 7 | KPC_sACTR_Male_Late | vs | Control_Male_Late |
| Comparison 8 | KPC_sACTR_Female_Late | vs | Control_Female_Late |
| Comparison 9 | KPC_Vehicle_Male_Late | vs | KPC_Vehicle_Female_Late |
| Comparison 10 | KPC_Male_Early | vs | KPC_Female_Early |
| Comparison 11 | KPC_sACTR_Male_Late | vs | KPC_sACTR_Female_Late |
| Comparison 12 | Control_Male_Late | vs | Control_Female_Late |
| Comparison 13 | Control_Male_Early | vs | Control_Female_Early |

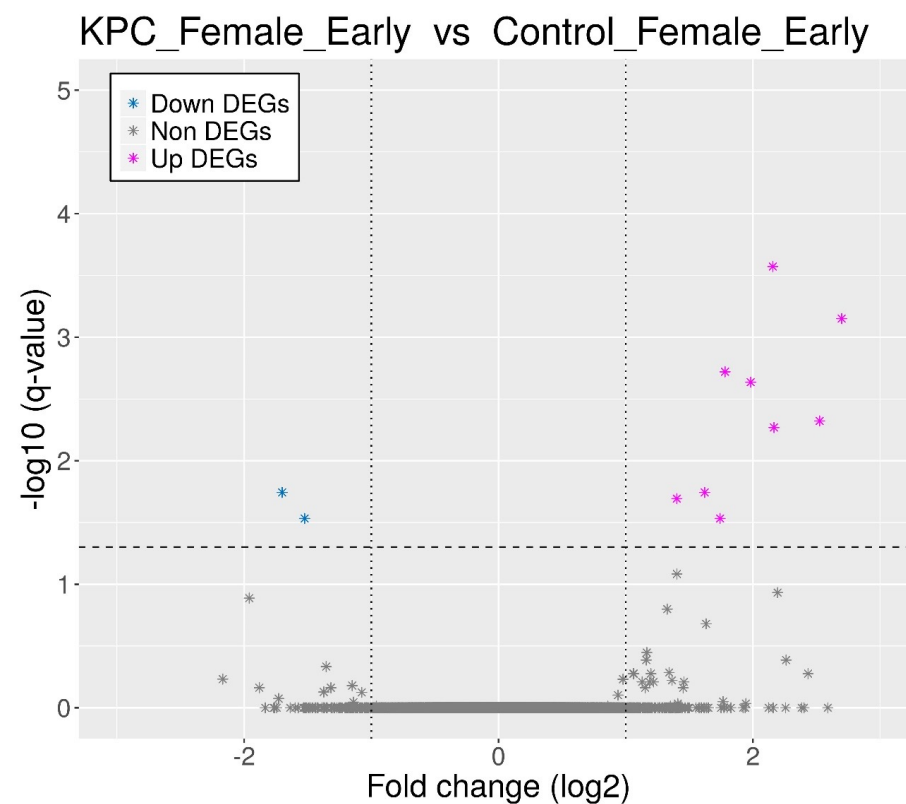
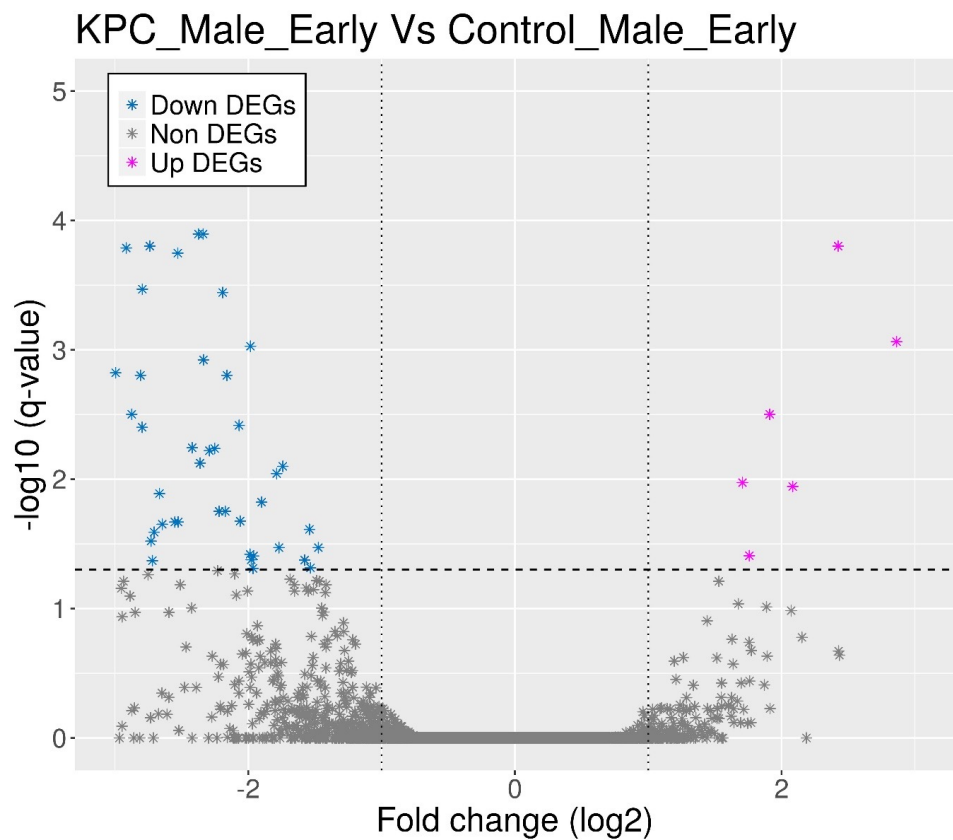
DE analysis

| | Human | FDR/P value cut off | log2FC | # of up genes | # of down genes |
|---------------|--|---------------------|----------|---------------|-----------------|
| Comparison 1 | KPC_Vehicle_Male_Late vs Control_Male_Late | FDR < 0.05 | >log2(2) | 416 | 499 |
| Comparison 2 | KPC_Vehicle_Female_Late vs Control_Female_Late | FDR < 0.05 | >log2(2) | 486 | 614 |
| Comparison 3 | KPC_Male_Early vs Control_Male_Early | FDR < 0.05 | >log2(2) | 6 | 60 |
| Comparison 4 | KPC_Female_Early vs Control_Female_Early | FDR < 0.05 | >log2(2) | 11 | 2 |
| Comparison 5 | KPC_sACTR_Male_Late vs KPC_Vehicle_Male_Late | FDR < 0.05 | >log2(2) | 49 | 67 |
| Comparison 6 | KPC_sACTR_Female_Late vs KPC_Vehicle_Female_Late | FDR < 0.05 | >log2(2) | 1 | 1 |
| Comparison 7 | KPC_sACTR_Male_Late vs Control_Male_Late | FDR < 0.05 | >log2(2) | 257 | 322 |
| Comparison 8 | KPC_sACTR_Female_Late vs Control_Female_Late | FDR < 0.05 | >log2(2) | 333 | 356 |
| Comparison 9 | KPC_Vehicle_Male_Late vs KPC_Vehicle_Female_Late | FDR < 0.05 | >log2(2) | 11 | 10 |
| Comparison 10 | KPC_Male_Early vs KPC_Female_Early | FDR < 0.05 | >log2(2) | 94 | 40 |
| Comparison 11 | KPC_sACTR_Male_Late vs KPC_sACTR_Female_Late | FDR < 0.05 | >log2(2) | 29 | 11 |
| Comparison 12 | Control_Male_Late vs Control_Female_Late | FDR < 0.05 | >log2(2) | 87 | 76 |
| Comparison 13 | Control_Male_Early vs Control_Female_Early | FDR < 0.05 | >log2(2) | 53 | 28 |

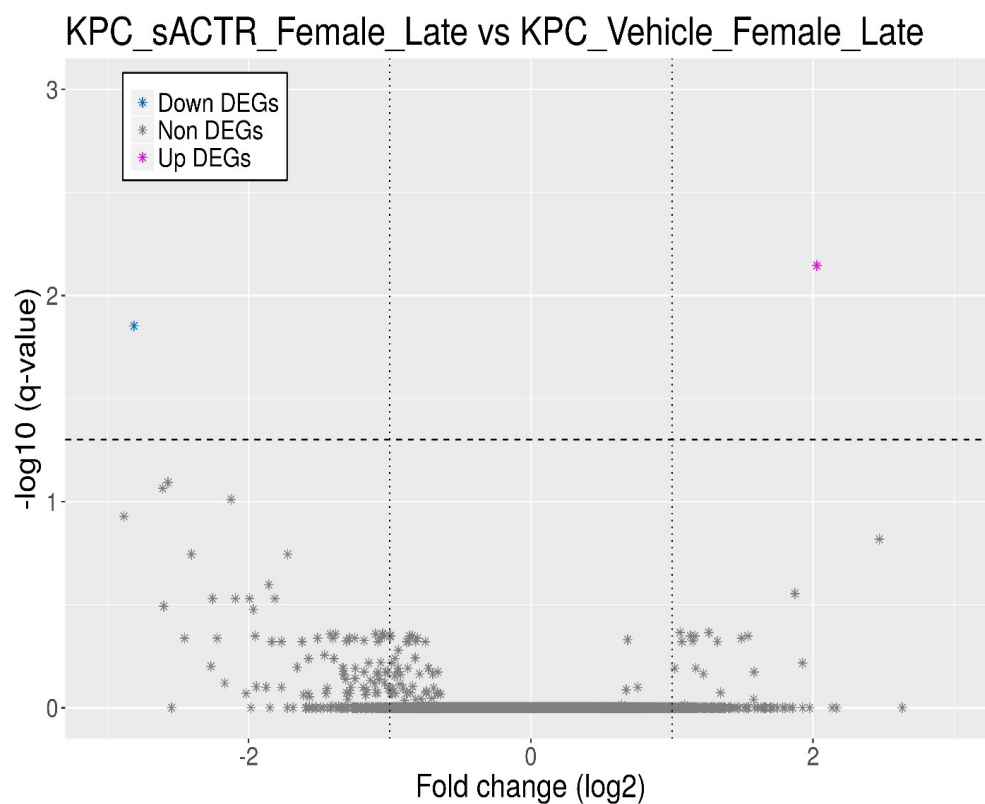
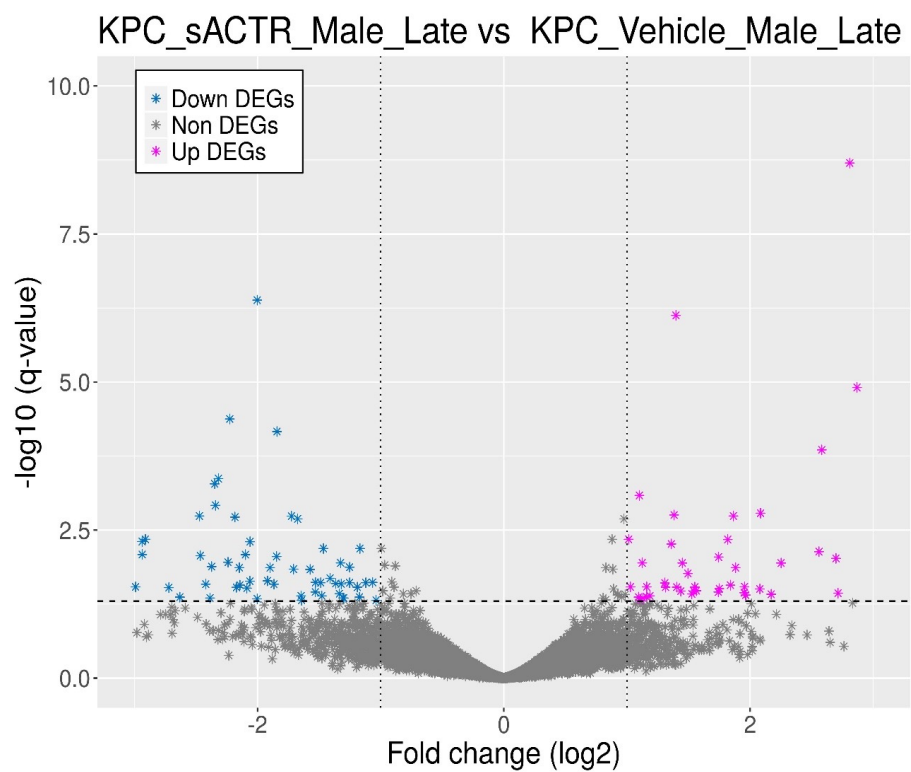
Volcano plot – comparison 1 and 2



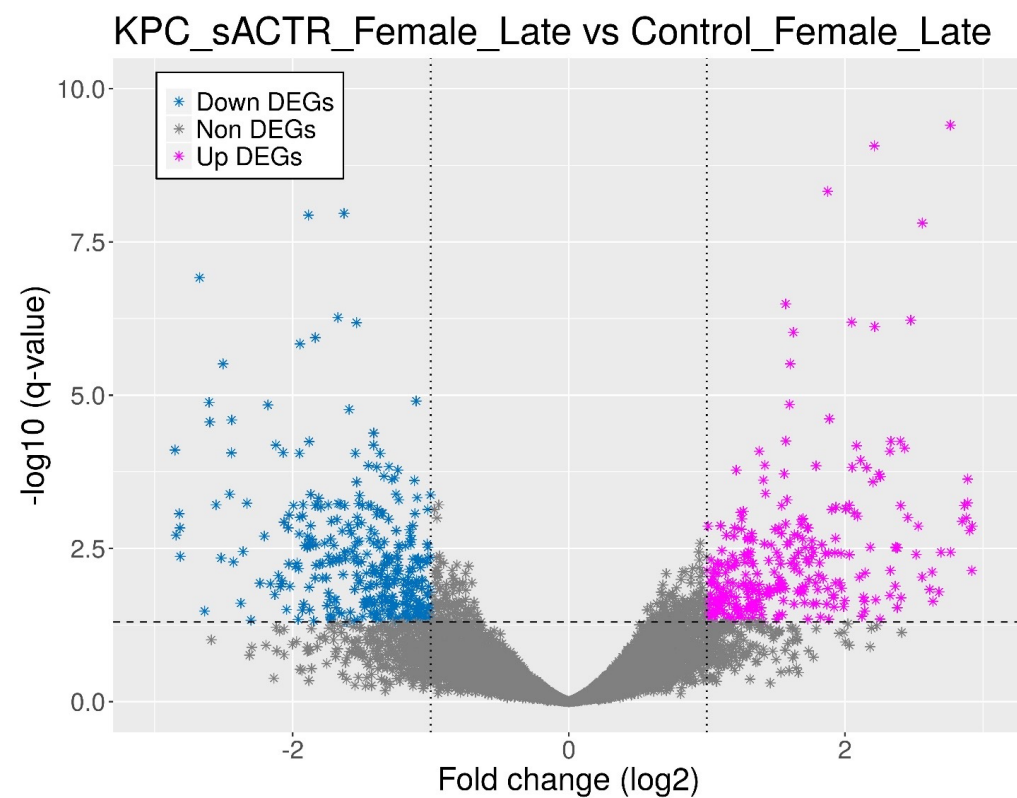
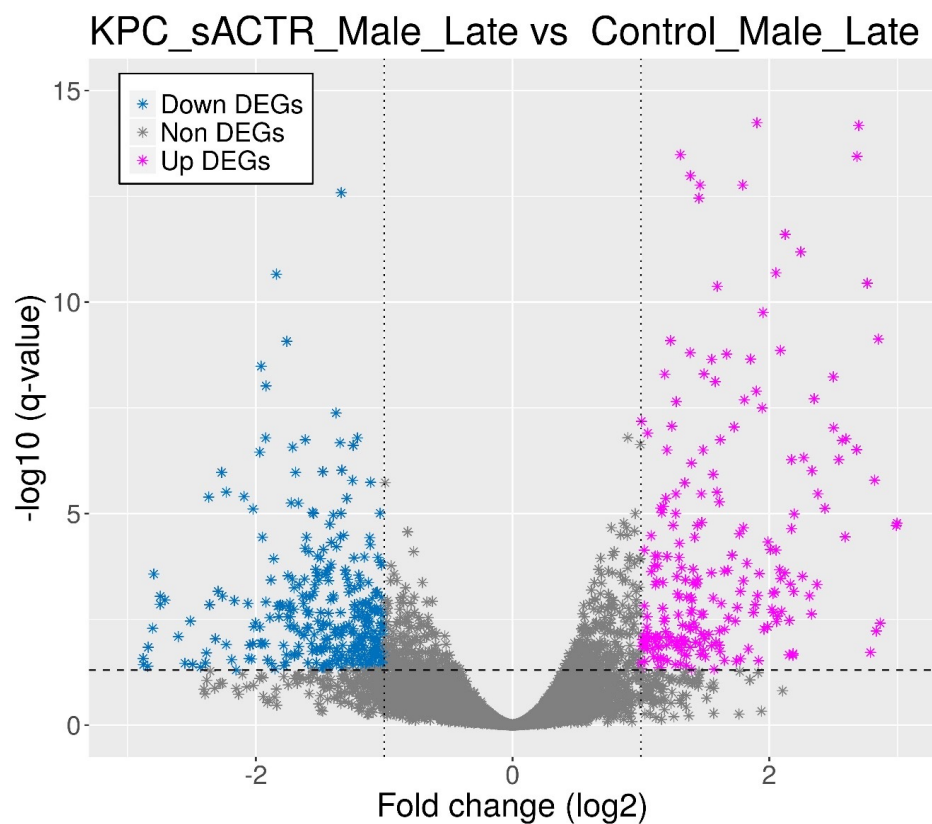
Volcano plot – comparison 3 and 4



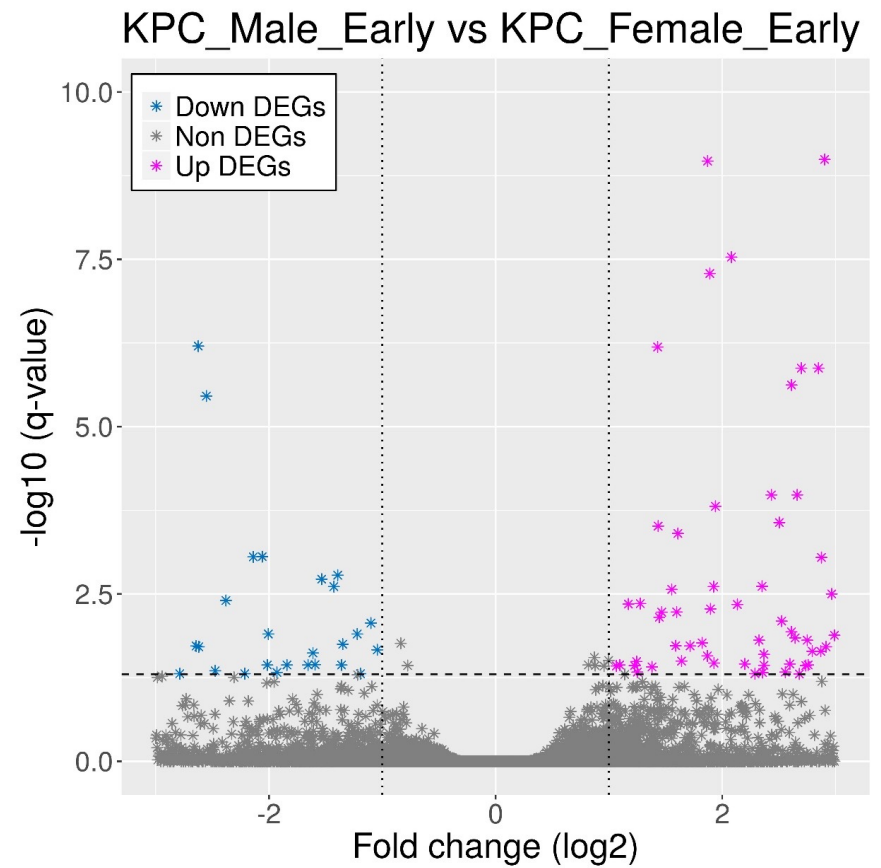
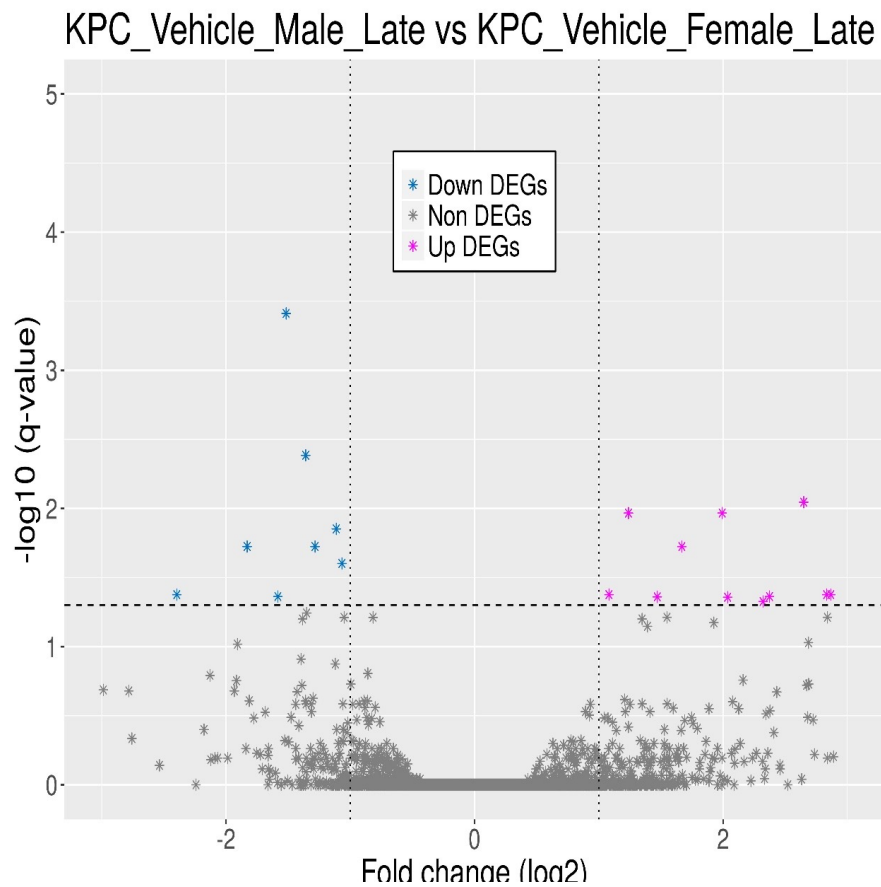
Volcano plot – comparison 5 and 6



Volcano plot – comparison 7 and 8

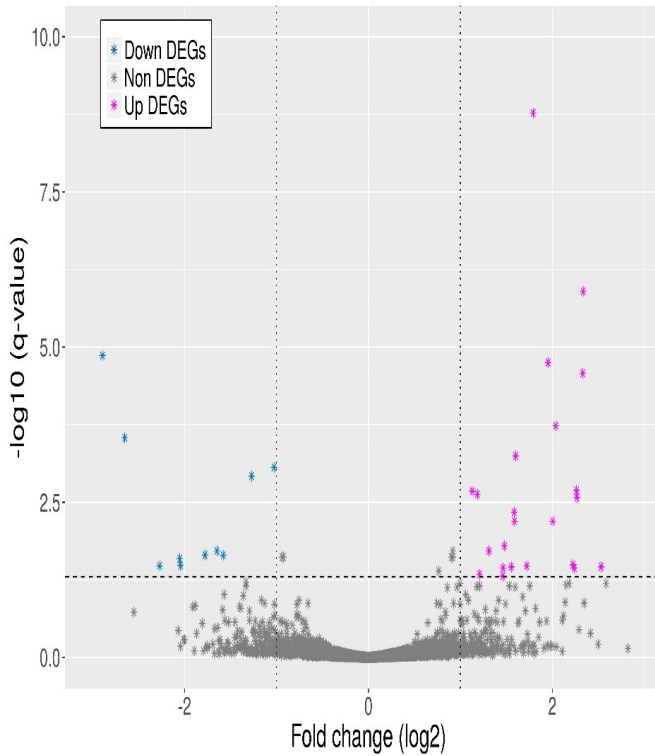


Volcano plot – comparison 9 and 10

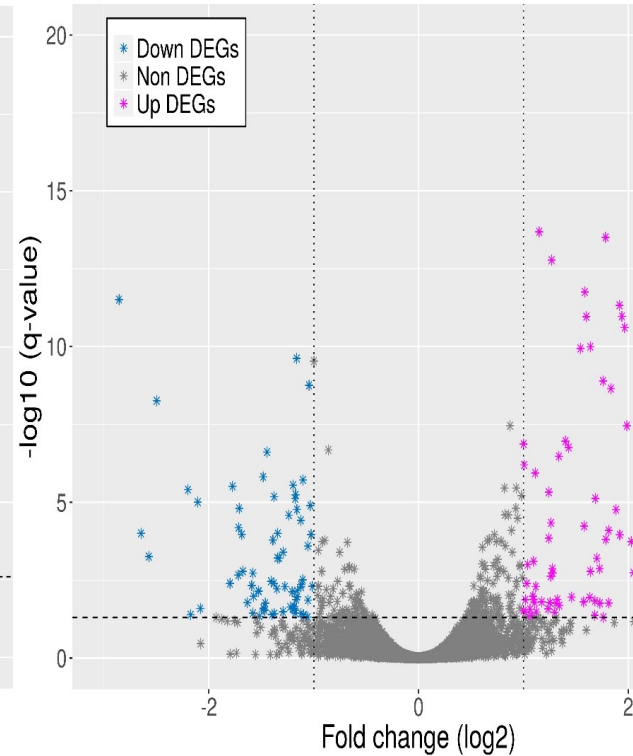


Volcano plot – comparison 11, 12, and 13

KPC_sACTR_Male_Late vs KPC_sACTR_Female_Late



Control_Male_Late vs Control_Female_Late



Control_Male_Early vs Control_Female_Early

