Hayden-812FinalProject

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BIOL 812 Final Project Hayden's Contributions

1. import data and re-arrange it done by Regan

```
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
       filter, lag
##
##
  The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
##
library(reshape2)
## Warning: package 'reshape2' was built under R version 3.6.3
library(ggplot2)
library (knitr)
## Warning: package 'knitr' was built under R version 3.6.2
The following is a copy of the data wrangling completed by Regan Cross and the rest of our group.
/line /line
making a new line
making another new line
making another new line
one more new line to make the table line up on its own page
```

Table 1. Top three genes experiencing the greatest change in expression within the head, gut and fat tissue of *Manduca sexta* between the 5th instar and adult life stage. Positive values under Change in Expression Level indicate an increase in expression level in the adult stage while negative values indicate a decrease in expression level.

Gene ID	Tissue Type	Expresssion Level (5th Instar) (FPKN)	Expression Level (Adult) (FPKN)	Change in Expression Level (FPKN)
$\overline{\mathrm{Msex}2.07524}$	Head	74964.413	439.172	-74525.241
Msex 2.15420	Head	3602.613	75574.228	71971.615
Msex 2.14343	Head	43171.260	2205.552	-40965.708
Msex 2.04431	Gut	118.138	82120.42	82002.282
Msex 2.15420	Gut	17344.096	62948.05	45603.954
Msex 2.14343	Gut	43268.046	3490.07	-39777.976
Msex 2.15420	Fat	68477.053	237523.435	169046.382
Msex 2.01694	Fat	68823.610	26.090	-68797.520
Msex2.10735	Fat	27176.113	9.570	-27166.543