Hayden-812FinalProject

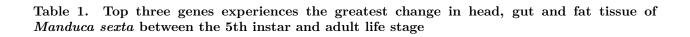## Hayden Wainwright

3/19/2020

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 foloowing is a copy of the data wrangling completed by Regan Cross and the rest of our group.

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Table 1. Top three genes experiences the greatest change in head, gut and fat tissue of *Manduca sexta* between the 5th instar and adult life stage

Gene ID	Tissue Type	Expresssion Level (5th Instar) (FPKN)	Expression Level (Adult) (FPKN)	Change in Expression Level (FPKN)
Msex2.07524	Head	74964.413	439.172	74525.241
Msex2.15420	Head	3602.613	75574.228	-71971.615
Msex2.14343	Head	43171.260	2205.552	-40965.708
Msex2.04431	Gut	118.138	82120.42	82002.282
Msex2.15420	Gut	17344.096	62948.05	45603.954
Msex2.14343	Gut	43268.046	3490.07	-39777.976
Msex2.15420	Fat	68477.053	237523.435	169046.382
Msex2.01694	Fat	68823.610	26.090	-68797.520
Msex2.10735	Fat	27176.113	9.570	-27166.543