**DESeq2 Project**

**Learning Credits – Bioinformagician YT channel** <https://www.youtube.com/watch?v=OzNzO8qwwp0&list=PLJefJsd1yfhbIhblS-85alaFsPdU00DaA&index=7>

**Standard Workflow Vignette:** <https://bioconductor.org/packages/release/bioc/vignettes/DESeq2/inst/doc/DESeq2.html#standard-workflow>

﻿﻿**Data:** Human Airway Smooth Muscle Transcriptome Changes in Response to Asthma Medications (GSE52778)

**Study Design :**

* ﻿RNA-sequencing performed on 4 primary human airway smooth muscle cell lines treated with 1 micromolar dexamethasone for 18 hours.
* ﻿﻿For each of the 4 cell lines, study has a treated and untreated sample.
* **Goal:** To understand the transcriptional changes occurring due to treatment with dexamethasone