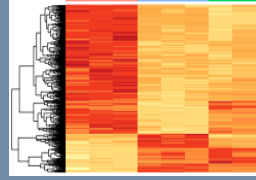# Harvard Chan Bioinformatics Core
presents:

Introduction to Differential Gene Expression and Functional Analysis

*For **Harvard researchers** affiliated with **Harvard Medical School labs on the Quad, Dana-Farber/Harvard Cancer Center (DF/HCC) or Harvard Center for AIDS Research***

This **online** workshop will introduce participants to **statistical methods and considerations** utilized to perform differential gene expression (DGE) analysis with **DESeq2** on **bulk RNA-seq** data.

Participants will learn how to:

- Evaluate **PCA** & **correlation heatmaps** for QC
- Incorporate theory of **DGE analysis steps** into hands-on workflow
- Visually explore DGE results with **expression heatmaps** & **volcano plots**
- Perform **functional analysis** of the DGE results

The Introduction to R workshop is a pre-requisite!

Please check link below for eligibility requirements.

April 30th, May 3rd, 7th & 10th, 2024
(10 AM - 12 PM, all days)

More information & registration link at **https://tinyurl.com/HBC-IntroToDGE**

Registration fee: $65

Workshop Location: **Online (Zoom)**

Sponsored by Harvard Medical School's Foundry, Dana-Farber/Harvard Cancer Center (DF/HCC) & Harvard Center for AIDS Research (CFAR)