Group Exercise

Reproducible and FAIR Bioinformatics
Analysis of Omics Data

July 13, 2024

Data Source

AMERICAN JOURNAL OF PHYSIOLOGY

american physiological society®

LUNG CELLULAR AND MOLECULAR PHYSIOLOGY®

RESEARCH ARTICLE

Extracellular Vesicles in Lung Health, Disease, and Therapy
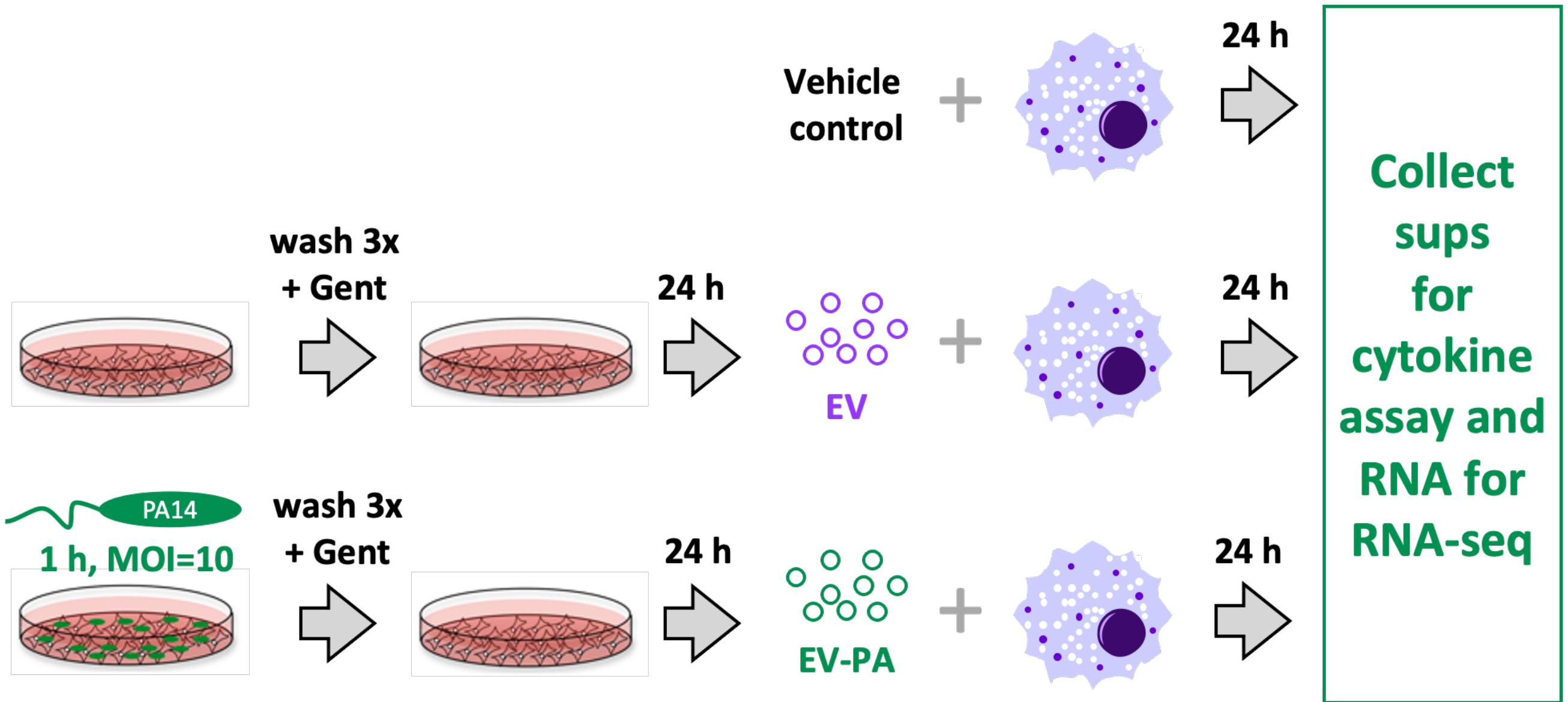
CF monocyte-derived macrophages have an attenuated response to extracellular vesicles secreted by airway epithelial cells
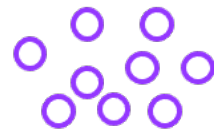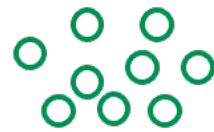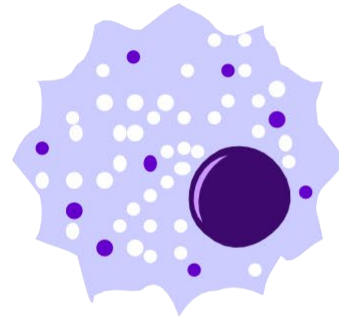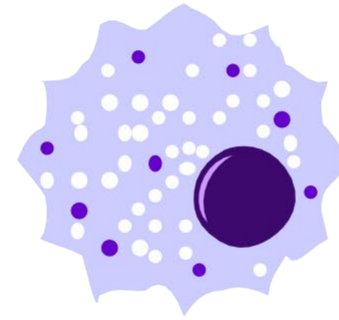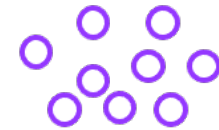
Katja Koeppen,[1] Amanda Nymon,[1] Roxanna Barnaby,[1] Zhongyou Li,[1] Thomas H. Hampton,[1] Alix Ashare,[1,2] and Bruce A. Stanton[1]

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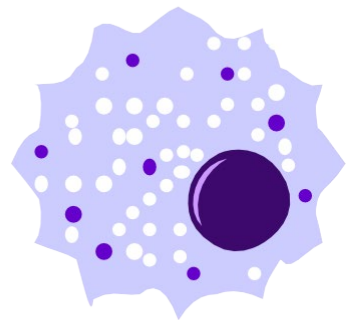
Experimental Design

Group Subsets
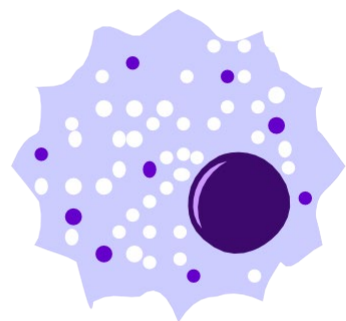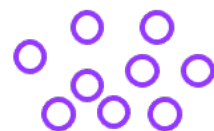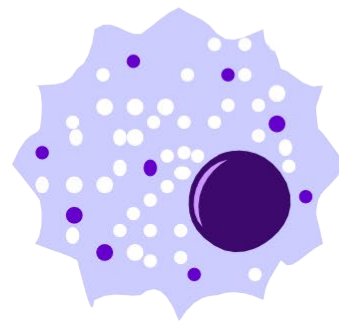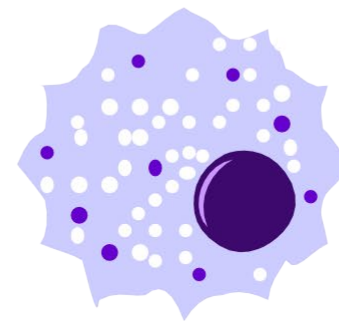
Instructions

1. You will be randomly assigned to one of the 4 groups.

2. Download the ZIP file for your group and follow the instructions in the included document.

3. You will be performing exploratory analysis, differential gene expression analysis and (if time allows) pathway analysis on your subset of the data.

4. Each group will present a short (10 min) summary of their findings starting at **4 PM**.