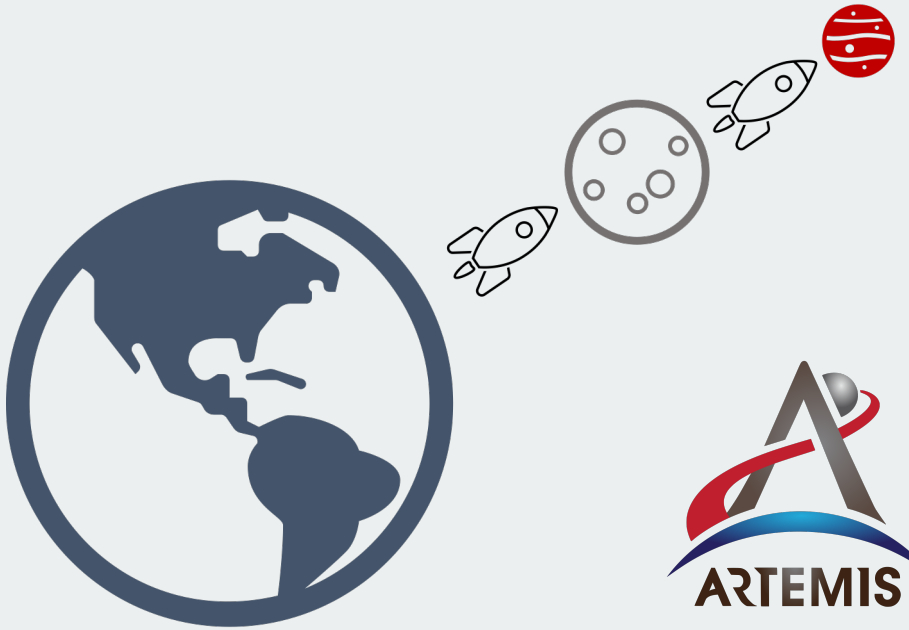
ALTERED IMMUNE DIFFERENTIALS BETWEEN MALE AND FEMALE MICE INDEPENDENT OF IONIZING IRRADIATION

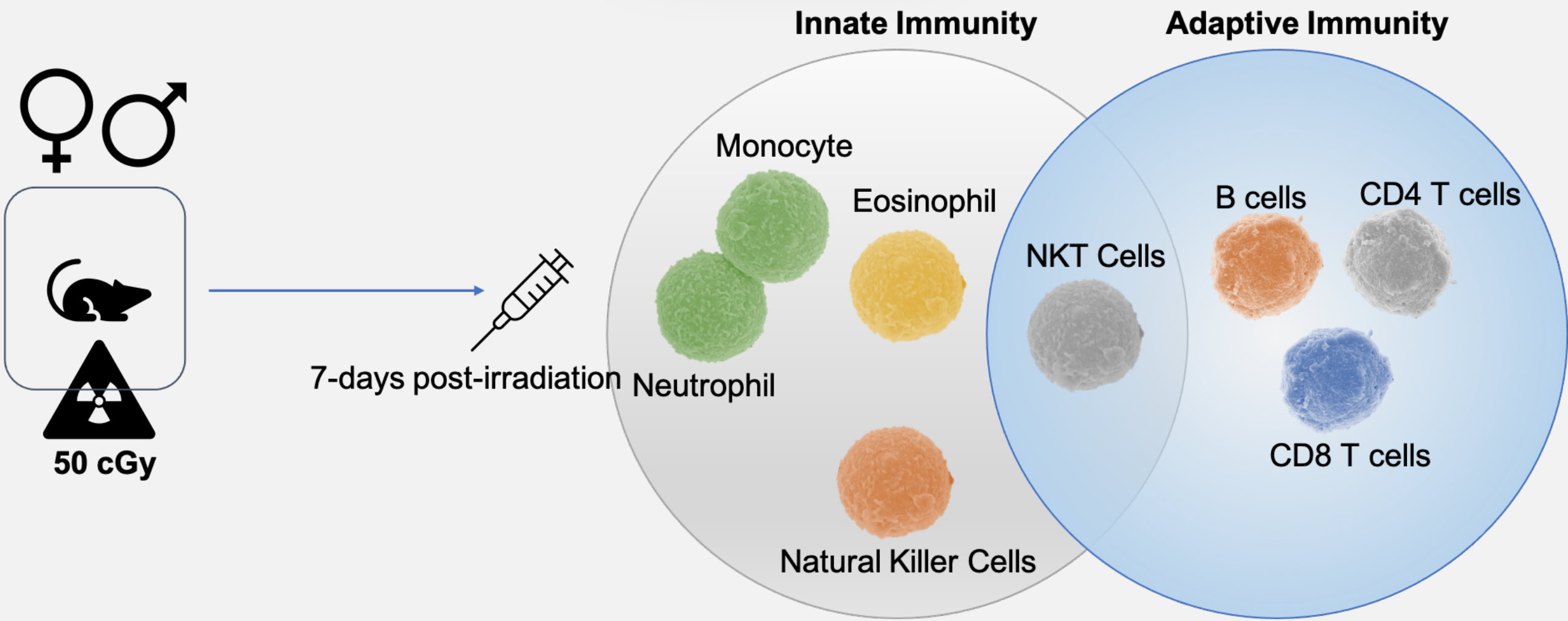
Amber M. Paul, Linda Rubinstein, Siddhita D. Mhatre, Janani Iyer, Kelly Wong, Moniece Lowe, Metadel Abegaz, Nathan O'Neil, Candice G.T. Tahimic, Josh Alwood, Ruth K. Globus, and April E. Ronca

Amber M. Paul, PhD
Postdoctoral Fellow, NASA ARC

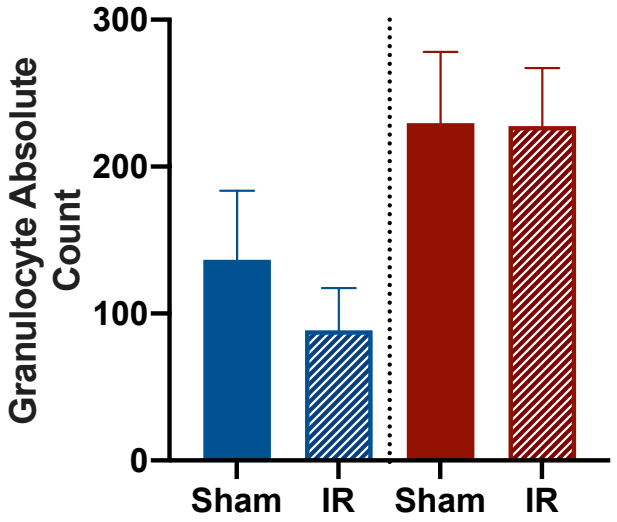


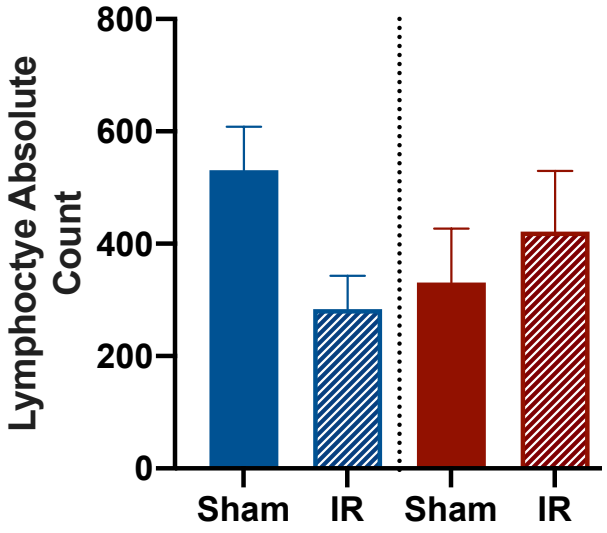
HRP-IWS Virtual, 2021

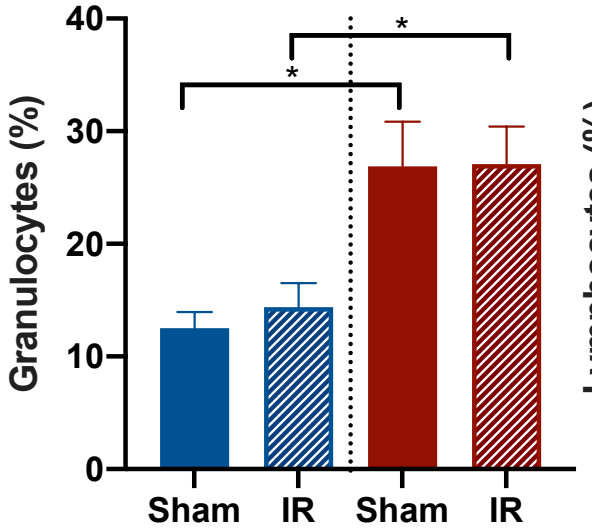
Methods

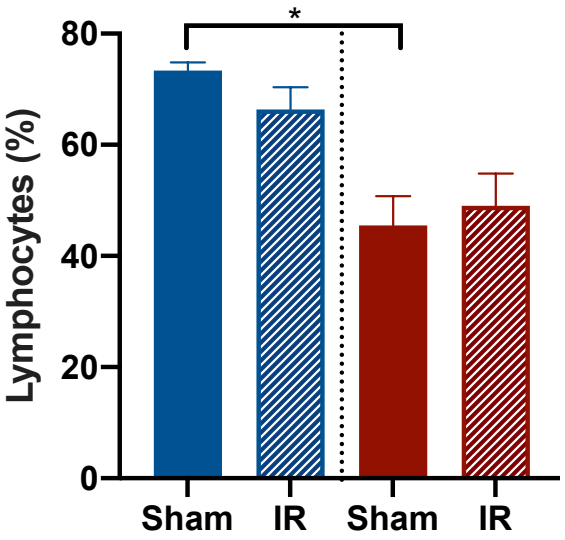

50 cGy
7-days post-irradiation
Innate Immunity
Adaptive Immunity
Monocyte
Eosinophil
Neutrophil
Natural Killer Cells
NKT Cells
B cells
CD4 T cells
CD8 T cells

Males Females

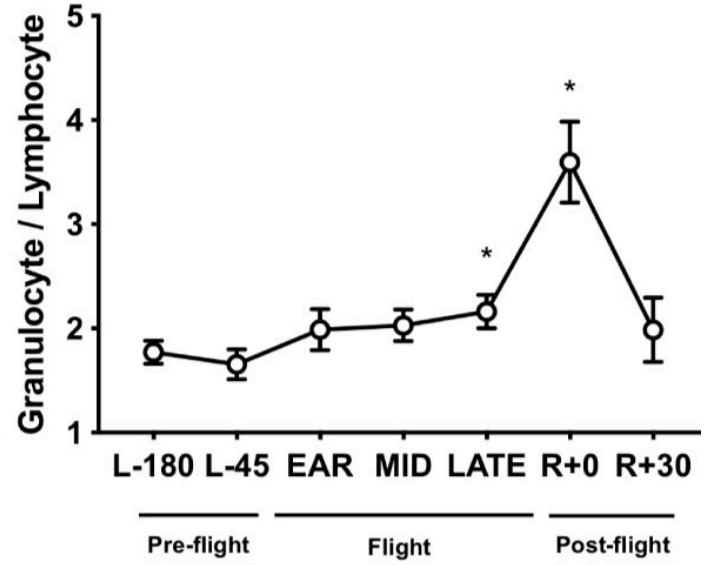


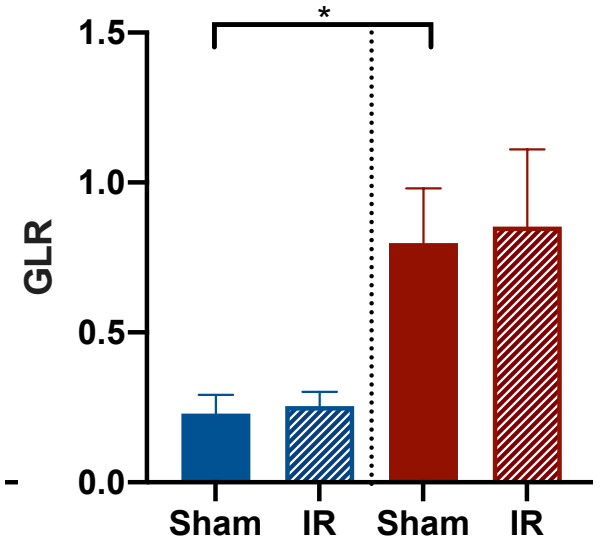




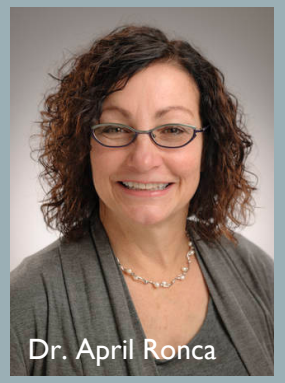


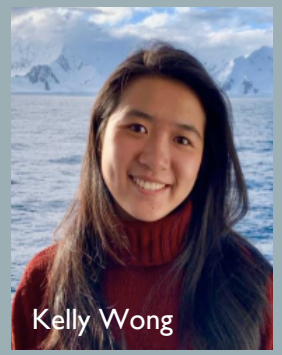
Granulocyte-to-Lymphocyte ratio (GLR >2.24) *(Wulaningsih et al., 2016)* ***is used as prognostic measures in clinical settings and increased in multiple inflammatory diseases, ie. advanced cancers*** *(Ozyurek et al., 2017)*, ***diabetes*** *(Khandare et al., 2017)*, ***IBD*** *(Acarturk et al., 2015).*

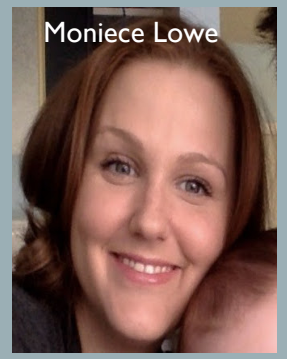




Aknowledgments







NASA

HUMAN RESEARCH PROGRAM

USRA

NASA
POSTDOCTORAL PROGRAM

SPACE BIOSCIENCES
NASA AMES RESEARCH CENTER

NASA Space Biology Program

NASA Life Sciences Data Archive (LSDA)