# Manuscript Title

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## In Brief

## Highlights

## Summary

## Keywords

## Introduction

## Results

## Discussion

## Acknowledgments

## Author Contributions

| Author | Contributions |
|---|---|
| John Doe | |
| Jane Roe | |

## Declarations of Interest

# Figure Titles and Legends

# Table Titles and Legends

# STAR METHODS

## RESOURCE AVAILABILITY

### Lead contact

Requests for access to OpenPedCan raw data and/or specimens may be directed to, and will be fulfilled by Jo Lynne Rokita (rokita@chop.edu).

### Materials availability

### Data and code availability

## METHOD DETAILS

### Biospecimen Collection

### Nucleic acids extraction and library preparation

### Data generation

### DNA WGS Alignment

### Quality Control of Sequencing Data

### Germline Variant Calling

#### SNP calling for B-allele Frequency (BAF) generation

### Somatic Mutation Calling

#### SNV and indel calling

#### VCF annotation and MAF creation

#### Gather SNV and INDEL Hotspots

#### Consensus SNV Calling

### Somatic Copy Number Variant Calling (WGS samples only)

#### Consensus CNV Calling

### Somatic Structural Variant Calling (WGS samples only)

### Gene Expression

**Abundance Estimation**

**Gene Expression Matrices with Unique HUGO Symbols**

**Gene fusion detection**

## QUANTIFICATION AND STATISTICAL ANALYSIS

**Focal Copy Number Calling (`focal-cn-file-preparation` analysis module)**

**Gene Set Variation Analysis (`gene-set-enrichment-analysis` analysis module)**

**Fusion prioritization (`fusion_filtering` analysis module)**

**Mutational Signatures (`mutational-signatures` analysis module)**

## Tumor Mutation Burden (`snv-callers` analysis module)

## Clinical Data Harmonization

**WHO Classification of Disease Types**

**Molecular Subtyping**

**TP53 Alteration Annotation (`tp53_nf1_score` analysis module)**

**Prediction of participants' genetic sex**

**Selection of independent samples (`independent-samples` analysis module)**

## KEY RESOURCES TABLE

## Supplemental Information Titles and Legends

## Consortia

## References