# Curated TCGA Data

A MultiAssayExperiment Teaser

# Hello!

## I am Lucas Schiffer

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# 1.

# **Introduction**

An overview of the TCGA data

# > 2,500,000

Gigabytes of data

# 11,000

Patients

# 33

Cancer types

**International Collaboration**

**Somatic Mutations**

**Expression Quantification**

**Between 20 Institutions**

**Gene Expression**

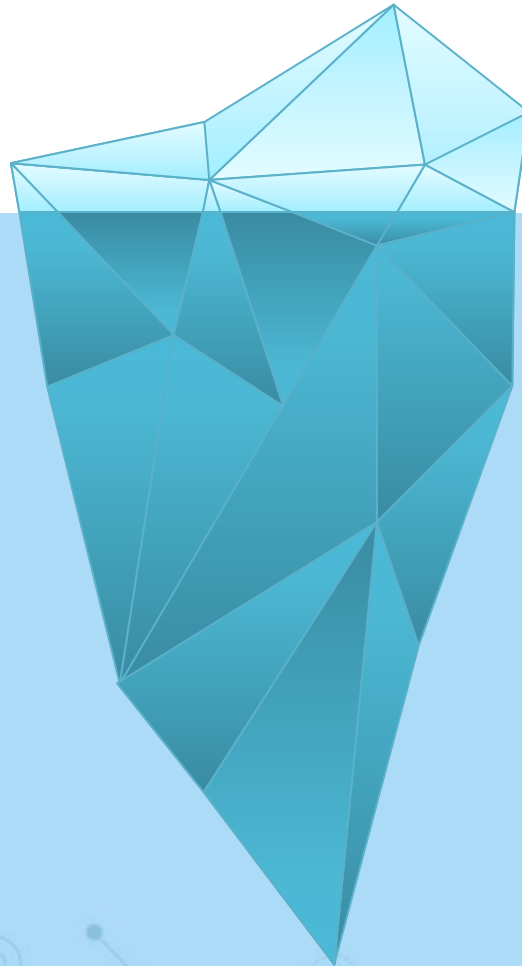**Biospecimen Supplement**

**Aligned Reads**

**Copy Number**

**Clinical Supplement**

# 2.

# Objectives

Curation and the
MultiAssayExperiment class

## The Curation

Clinical data were merged across all TCGA cohorts and cancer subtypes were obtained from all publication supplements. The curated clinical and subtype data are currently being incorporated into MultiAssayExperiment objects, to be published shortly.
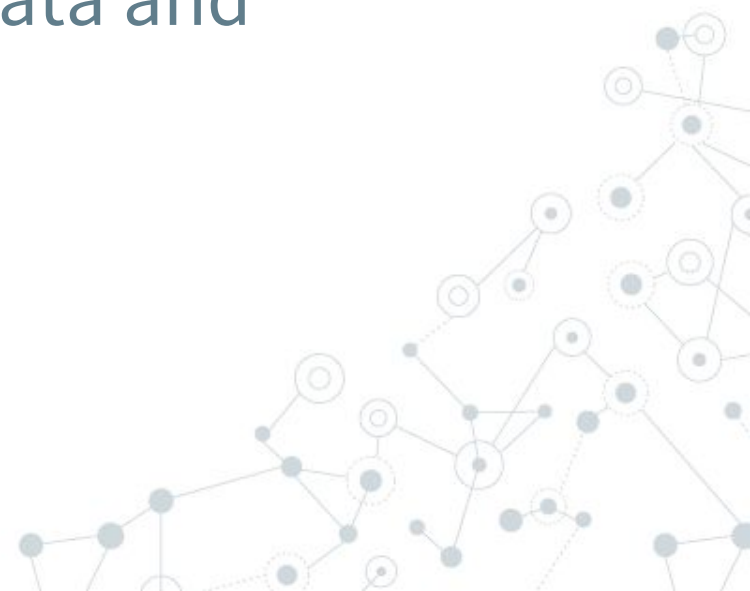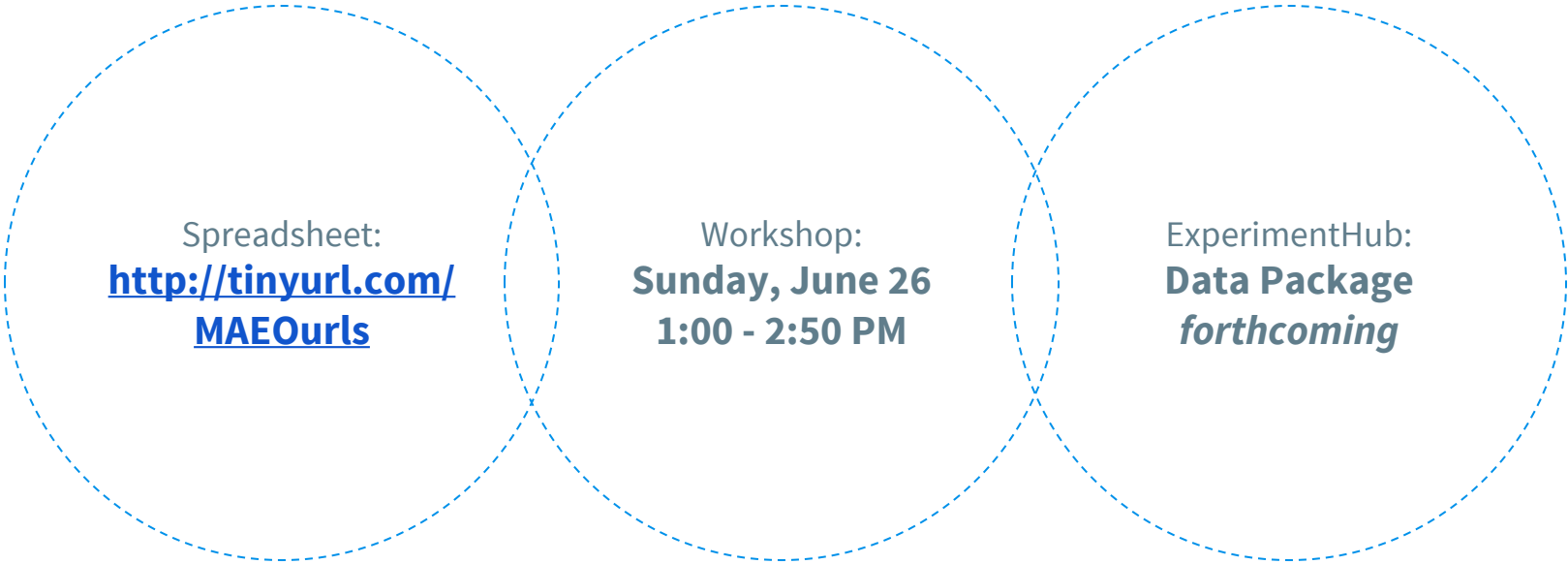
## The Class

A new Bioconductor class, MultiAssayExperiment, was created to link gene-based and range-based omics data with clinical and subtype data. It is both subsetable and comprehensive, allowing for a unified representation of the complex data.

Tiffany Chan, Rimsha Azhar, Hanish Kodali, Jamie Wood

# 3.
# Results

Experiences with TCGA data and MultiAssayExperiment

Spreadsheet:
**http://tinyurl.com/
MAEOurls**

Workshop:
**Sunday, June 26
1:00 - 2:50 PM**

ExperimentHub:
**Data Package**
*forthcoming*

# Thanks!

## Acknowledgements

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- ★ Vincent Carey, PhD
- ★ MultiAssayExperiment Interest Group
- ★ WaldronLab

## References

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Font-Awesome-SVG-PNG. Damian Kaczmarek, Dominykas Blyžė. http://github.com/encharm/Font-Awesome-SVG-PNG. Accessed June 22, 2016.

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Genomic Data Commons Data Portal. National Cancer Institute. http://gdc-portal.nci.nih.gov. Accessed June 22, 2016.

## Links for More Info

This Presentation:

https://tinyurl.com/MAEOpres

Downloadable Objects:

https://tinyurl.com/MAEOurls

Interest Group:

https://tinyurl.com/MAEOgroup

WaldronLab:

http://www.waldronlab.org/

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