

TCGA Lung Phenotype Research Group

Summary

The Cancer Genome Atlas (TCGA) Lung Phenotype Research Group is part of the [Cancer Imaging Program TCGA Radiology Initiative](#) focused on analyzing images from the [TCGA- Lung Adenocarcinoma \(LUAD\)](#) collection. Multiple modalities of images which correlate to the lung tissue data in [TCGA's Data Portal](#) are being gathered for submission to The Cancer Imaging Archive ([TCIA](#)).

According to the [TCGA page on LUAD](#), researchers hope to make the following types of discoveries about LUAD and lung squamous cell carcinoma (LUSC):

- Pinpoint gene changes that divide squamous and adenocarcinoma tumors into molecular subgroups.
- Distinguish patterns of gene changes between LUAD and LUSC.
- Distinguish genomic changes between smokers and non-smokers.

Research and Publications

Per TCGA and TCIA Guidelines, formal permission requests are still required to submit publications using TCGA-LUAD data. Please see the following links for more information about the freedom-to-publish criteria for these data sets:

Data Source	Status
TCGA Data Portal Publication Guidelines	No restrictions; all data available without limitations.
TCIA Data Usage Policies and Restrictions	Projects have not reached 100 imaging cases; please check with help@cancerimagingarchive.net prior to any publication.

Please contact us at help@cancerimagingarchive.net if you have any questions about these policies.

TCGA Lung Marker Paper and Image Source Sites (ISS)

Imaging Source Site (ISS) Groups will be populated and governed by participants from institutions that have provided imaging data to the archive for a given cancer type. Modeled after TCGA analysis groups, ISS groups are given the opportunity to publish a marker paper for a given cancer type per the guidelines in the table above. This opportunity will generate increased participation in building these multi-institutional data sets as they become an open community resource. Current TCGA-LUAD source sites include:

- Washington University in St. Louis
- UPMC

This group has not yet been established. We will provide a point of contact for the group from the ISS site(s) as soon as possible to address scientific questions or requests to collaborate with their group.

References

The following links contain publications from the main TCGA project as well as their posted publication guidelines:

- [TCGA Publications](#)
- [TCGA Publication Guidelines](#)

TCGA 2nd Annual Symposium

- Comprehensive Analysis of Lung Adenocarcinoma, Matthew Meyerson, MD, Dana-Farber Cancer Institute. [Video](#) | [Slides](#)