

TCIA Analysis Results

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To enhance the value of TCIA collections we encourage the research community to [publish their analyses](#) of existing [TCIA image collections](#). Examples of this kind of data includes radiologist or pathologist annotations, image classifications, segmentations, radiomics features, or derived /reprocessed images. Similar to submitting new image collections, these data are reviewed by the TCIA Advisory Group for relevance and curated using our normal processes to assure data are de-identified. However, TCIA does not certify the quality of the analyses themselves (e.g. accuracy of segmentation on a given scan). Researchers should always carefully review the data and any related publications before deciding whether these analyses could be useful in their work.

Note: Column headers can be clicked to sort the table.

| Title | Cancer Type | Location | Subjects | Collections Analyzed | Analysis Artifacts on TCIA | Updated |
|---|---------------------------------------|--------------------------|----------|---|---|------------|
| DICOM SR of clinical data and measurement for breast cancer collections to TCIA | Breast | Breast | 474 | TCGA-BRCA , BREAST-DIAGNOSIS , ISPY1 , Breast-MRI-NACT-Pilot | DICOM SR descriptions of patient characteristics, histopathology, receptor status and clinical findings including measurements. | 2020-05-28 |
| DICOM-SEG Conversions for TCGA-LGG and TCGA-GBM Segmentation Datasets | Glioblastoma, Low Grade Glioma | Brain | 167 | TCGA-GBM , TCGA-LGG | Tumor segmentations | 2020-04-30 |
| Integration of CT-based Qualitative and Radiomic Features with Proteomic Variables in Patients with High-Grade Serous Ovarian Cancer: An Exploratory Analysis | Ovarian | Ovary | 20 | TCGA-OV | Radiologist assessments of image features, proteogenomic features | 2020-04-15 |
| Thoracic Volume and Pleural Effusion Segmentations in Diseased Lungs for Benchmarking Chest CT Processing Pipelines | Lung | Lung | 402 | NSCLC-Radiomics | Thoracic segmentations, pleural effusion segmentations, image features | 2020-04-08 |
| Standardized representation of the TCIA LIDC-IDRI annotations using DICOM | Lung | Chest | 1,010 | LIDC-IDRI | Tumor segmentations, image features | 2020-03-26 |
| Decoding tumour phenotype by noninvasive imaging using a quantitative radiomics approach | Lung, Head-Neck | Lung, Head-Neck | 701 | NSCLC-Radiomics , NSCLC-Radiomics-Genomics , Head-Neck-Radiomics-HN1 , NSCLC-Radiomics-Interobserver1 , RIDER Lung CT | Tumor segmentations and radiomic features | 2020-03-23 |
| RIDER Lung CT Segmentation Labels from: Decoding tumour phenotype by noninvasive imaging using a quantitative radiomics approach | Lung | Chest | 31 | RIDER Lung CT | Tumor segmentations | 2020-02-13 |
| Dataset of Segmented Nuclei in Hematoxylin and Eosin Stained Histopathology Images | Various (14 collections) | Various (14 collections) | | Various (14 TCGA collections) | Nuclei segmentations | 2020-02-08 |
| Data from Head and Neck Cancer CT Atlas | Head and Neck Squamous Cell Carcinoma | Head-Neck | 215 | HNSCC | Radiation Therapy Structures | 2019-07-11 |
| SDTM datasets of clinical data and measurements for selected cancer collections to TCIA | Breast, Glioblastoma | Breast, Brain | 516 | ISPY1 , BREAST-DIAGNOSIS , Breast-MRI-NACT-Pilot , TCGA-BRCA , Ivy GAP | Standardized (SDTM format) conversions of clinical and image analysis data | 2019-06-21 |
| Crowds Cure Cancer: Data collected at the RSNA 2018 annual meeting | Various (13 collections) | Various (13 collections) | 324 | Various (13 collections) | Lesion measurements | 2019-05-30 |
| QIN multi-site collection of Lung CT data with Nodule Segmentations | Lung | Chest | 31 | Lung Phantom , LIDC-IDRI , QIN LUNG CT , RIDER Lung CT | Tumor segmentations | 2018-12-18 |

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| Tumor-Infiltrating Lymphocytes Maps from TCGA H&E Whole Slide Pathology Images | Various (13 collections) | Various (13 collections) | 4,759 | Various (13 TCGA collections) | Deep learning based computational stain for staining tumor-infiltrating lymphocytes (TILs) | 2018-12-17 |
| TCGA Breast Phenotype Research Group Data sets | Breast | Breast | 84 | TCGA-BRCA | Radiologist assessments of image features, lesion segmentations, radiomic features, and multi-gene assays | 2018-09-04 |
| Crowds Cure Cancer: Data collected at the RSNA 2017 annual meeting | Lung Adenocarcinoma, Renal Clear Cell, Liver, Ovarian | Chest, Kidney, Liver, Ovary | 352 | TCGA-LUAD, TCGA-KIRC, TCGA-LIHC, TCGA-OV | Lesion measurements | 2018-05-17 |
| Long and Short Survival in Adenocarcinoma Lung CTs | Lung Adenocarcinoma | Chest | 40 | LungCT-Diagnosis, QIN LUNG CT | Tumor segmentations and radiomic image features | 2017-08-11 |
| Segmentation Labels and Radiomic Features for the Pre-operative Scans of the TCGA-GBM collection | Glioblastoma | Brain | 135 | TCGA-GBM | Tumor segmentations and radiomic image features | 2017-07-17 |
| Segmentation Labels and Radiomic Features for the Pre-operative Scans of the TCGA-LGG collection | Low Grade Glioma | Brain | 108 | TCGA-LGG | Tumor segmentations and radiomic image features | 2017-07-17 |
| ROI Masks Defining Low-Grade Glioma Tumor Regions In the TCGA-LGG Image Collection | Low Grade Glioma | Brain | 188 | TCGA-LGG | Radiologist assessments of image features, tumor segmentations | 2017-03-17 |
| Image Data Used in the Simulations of "The Role of Image Compression Standards in Medical Imaging: Current Status and Future Trends" | Colon, Lung, Breast, Glioblastoma | Colon, Chest, Breast, Brain | 40 | CT COLONOGRAPHY, LIDC-IDRI, TCGA-BRCA, TCGA-GBM | N/A | 2016-12-08 |
| Glioblastoma: Imaging Genomic Mapping Reveals Sex-specific Oncogenic Associations of Cell Death | Glioblastoma | Brain | 99 | TCGA-GBM | N/A | 2016-08-02 |
| Imaging Features, and Correlations with Genomic and Clinical Data from the TCGA Ovarian Radiology Research Group | High-Grade Serous Ovarian Cancer | Ovary | 93 | TCGA-OV | Radiologist assessments of image features, genomic subtypes | 2016-08-02 |
| Spatial Habitat Features derived from Multiparametric Magnetic Resonance Imaging data from Glioblastoma Multifforme cases | Glioblastoma | Brain | 74 | TCGA-GBM | N/A | 2015-08-20 |
| NCI-ISBI 2013 Challenge: Automated Segmentation of Prostate Structures | Prostate | Prostate | 80 | PROSTATE-DIAGNOSIS, Prostate-3T | Prostate structure segmentations | 2015-08-20 |
| Radiogenomics of Clear Cell Renal Cell Carcinoma: Preliminary Findings of The Cancer Genome Atlas-Renal Cell Carcinoma (TCGA-RCC) Research Group | Renal Clear Cell Carcinoma | Kidney | 103 | TCGA-KIRC | Radiologist assessments of image features | 2015-05-28 |
| Segmentation of Pulmonary Nodules in Computed Tomography Using a Regression Neural Network Approach and its Application to the Lung Image Database Consortium and Image Database Resource Initiative Dataset | Lung | Chest | 102 | LIDC-IDRI | N/A | 2015-02-24 |
| MR Imaging Predictors of Molecular Profile and Survival: Multi-institutional Study of the TCGA Glioblastoma Data Set | Glioblastoma | Brain | 75 | TCGA-GBM | Radiologist assessments of image features | 2014-11-12 |
| Radiogenomic Analysis of Breast Cancer: Luminal B Molecular Subtype Is Associated with Enhancement Dynamics at MR Imaging | Breast | Breast | 48 | TCGA-BRCA | N/A | 2014-11-12 |
| Glioblastoma multifforme: exploratory radiogenomic analysis by using quantitative image features | Glioblastoma | Brain | 55 | TCGA-GBM | Tumor segmentations | 2014-11-05 |
| Outcome Prediction in Patients with Glioblastoma by Using Imaging, Clinical, and Genomic Biomarkers: Focus on the Nonenhancing Component of the Tumor | Glioblastoma | Brain | 45 | TCGA-GBM | Radiologist assessments of image features and hemodynamic parameters | 2014-07-24 |
| NSCLC Radiogenomics: Initial Stanford Study of 26 Cases | Lung | Chest | 26 | NSCLC Radiogenomics | N/A | 2013-03-01 |

