

# Medical-imaging-datasets

<https://github.com/beamandrew/medical-data>

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A list of Medical imaging datasets. Source : <https://sites.google.com/site/aacruzr/image-datasets>  
An additional, possibly overlapping list can be found at : <https://github.com/beamandrew/medical-data>

## COVID-19

- COVID-CT-Dataset: <https://github.com/UCSD-AI4H/COVID-CT>
- Covid-chestxray-dataset: <https://github.com/ieee8023/covid-chestxray-dataset>
- COVID-19 CT Segmentation Dataset: <http://medicalsegmentation.com/covid19/>

## Multimodal databases

- Center for In Vivo Microscopy (CIVM), Embryonic and Neonatal Mouse (H&E, MR) <http://www.civm.duhs.duke.edu/devatlas/> user guide: <http://www.civm.duhs.duke.edu/devatlas/UserGuide.pdf>
- LONI image data archive <https://ida.loni.usc.edu/services/Menu/IdaData.jsp?project=>

## Radiology (Ultrasound, Mammography, X-Ray, CT, MRI, fMRI, etc.)

- Collaborative Informatics and Neuroimaging Suite (COINS) <https://portal.mrn.org/micis/index.php?subsite=dx>
- The Cancer Imaging Archive (TCIA) <http://www.cancerimagingarchive.net/> (Collections)
- Alzheimer's Disease Neuroimaging Initiative (ADNI) <http://adni.loni.ucla.edu/>
- The Open Access Series of Imaging Studies (OASIS) <http://www.oasis-brains.org/>
- Breast Cancer Digital Repository <https://bcdr.eu/>
- DDSM: Digital Database for Screening Mammography <http://marathon.csee.usf.edu/Mammography/Database.html>
- The Mammographic Image Analysis Society (MIAS) mini-database <http://peipa.essex.ac.uk/info/mias.html>
- Mammography Image Databases 100 or more images of mammograms with ground truth. Additional images available by request, and links to several other mammography databases are provided <http://marathon.csee.usf.edu/Mammography/Database.html>
- NLM HyperDoc Visible Human Project color, CAT and MRI image samples - over 30 images [http://www.nlm.nih.gov/research/visible/visible\\_human.html](http://www.nlm.nih.gov/research/visible/visible_human.html)
- CT Scans for Colon Cancer <https://wiki.cancerimagingarchive.net/display/Public/CT+COLONOGRAPHY#e88604ec5c654f60a897fa77906f88a6>

## Histology and Histopathology (H&E, IHQ, ...)

- The Cancer Genome Atlas (TCGA) <http://cancergenome.nih.gov/> <https://tcga-data.nci.nih.gov/tcga/>
- International Cancer Genome Consortium <http://icgc.org>, (Data portal) <http://dcc.icgc.org/>
- Stanford Tissue Microarray Database (TMA) <http://tma.im>
- MITOS dataset <http://www.ipal.cnrs.fr/event/icpr-2012>
- Cancer Image Database (caIMAGE) <https://emice.nci.nih.gov/caimage>
- DPA's Whole Slide Imaging Repository <https://digitalpathologyassociation.org/whole-slide-imaging-repository>
- ITK Analysis of Large Histology Datasets [http://www.na-mic.org/Wiki/index.php/ITK\\_Analysis\\_of\\_Large\\_Histology\\_Datasets](http://www.na-mic.org/Wiki/index.php/ITK_Analysis_of_Large_Histology_Datasets)
- Histology Photo Album <http://www.histology-world.com/photoalbum/thumbnails.php?album=52>
- Slide Library of Virtual pathology, University of Leeds <http://www.virtualpathology.leeds.ac.uk/>
- Aperio Images <http://images.aperio.com/>
- HAPS Histology Image Database <http://hapshistology.wikifoundry.com/>

## Microscopy (Cell, Cytology, Biology, Protein, Molecular, Fluorescence, etc.)

- BDGP images from the FlyExpress database [www.flyexpress.net](http://www.flyexpress.net)
- The UCSB Bio-Segmentation Benchmark dataset <http://www.bioimage.ucsb.edu/research/biosegmentation>
- Pap Smear database <http://mde-lab.aegean.gr/index.php/downloads>

- Histology (CIMA) dataset <http://cmp.felk.cvut.cz/~borovji3/?page=dataset>
- ANHIR dataset <https://anhir.grand-challenge.org/>
- Genome RNAi dataset <http://www.genomernai.org/>
- Chinese Hamster Ovary cells (CHO) dataset <http://www.chogenome.org/data.html>
- Locate Endogenous mouse subcellular organelles (END) database <http://locate.imb.uq.edu.au/>
- 2D HeLa dataset (HeLa) dataset <https://ome.grc.nia.nih.gov/iicbu2008/hela/index.html>
- Allen Brain Atlas <http://www.brain-map.org/>
- 1000 Functional Connectomes Project [http://fcon\\_1000.projects.nitrc.org/](http://fcon_1000.projects.nitrc.org/)
- The Cell Centered Database (CCDB) <https://library.ucsd.edu/dc/collection/bb5940732k>
- The Encyclopedia of DNA Elements (ENCODE) <http://genome.ucsc.edu/ENCODE/> user guide: <http://www.plosbiology.org/article/info:doi/10.1371/journal.pbio.1001046>
- The Human Protein Atlas: <http://www.proteinatlas.org/>
- DRIVE: Digital Retinal Images for Vessel Extraction <http://www.isi.uu.nl/Research/Databases/DRIVE/> (Ground truth)
- El Salvador Atlas of Gastrointestinal VideoEndoscopy Images and Videos of hi-res of studies taken from Gastrointestinal Video endoscopy <http://www.gastrointestinalatlas.com/>

### Databases you can use for benchmarking

- <http://peipa.essex.ac.uk/benchmark/databases/>
- <http://mulan.sourceforge.net/datasets-mlc.html>
- <https://archive.ics.uci.edu/ml/datasets.php>
- Datasets reporting formats for pathologists <http://www.rcpath.org/publications-media/publications/datasets>
- DermNet - Skin disease atlas (23 image classes and 23,000 images): <http://www.dermnet.com/>

### State of the art / Challenges

- Grand Challenges in Medical Image Analysis <https://grand-challenge.org/>
- Challenges in global health and development problems <https://grandchallenges.org/#/map>
- Current state of the art of most used computer vision datasets: Who is the best at X? [http://rodrigob.github.io/are\\_we\\_there\\_yet/build/](http://rodrigob.github.io/are_we_there_yet/build/)
- Automatic Non-rigid Histological Image Registration (ANHIR) challenge <https://anhir.grand-challenge.org/>