

The sources codes in this folder are associated with the manuscript, *Generative Adversarial Domain Adaptation for Nucleus Quantification in Ki67 Images*, submitted to JCO Clinical Cancer Informatics. The manuscript is authored by Xuhong Zhang, Toby C. Cornish, Lin Yang, Tell D. Bennett, Debashis Ghosh and Fuyong Xing.

The method described in the manuscript include two stages: (1) adversarial image translation and (2) deep regression model.

For Stage 1, the image translation is achieved by using the codes provided by CycleGAN, <https://junyanz.github.io/CycleGAN/>, and CyCADA, https://github.com/jhoffman/cycada_release.

For Stage 2, the source codes are provided in this folder. The codes are written with PyTorch 0.4.1.

Usage (you need to set up your own data repository):

For training: `./train_fcn_cell_class.sh`

For testing: `./eval_fcn_cell_class.sh`