# HU-MAP-HACKING THE HUMAN BODY GROUP B PROGRESS REPORT
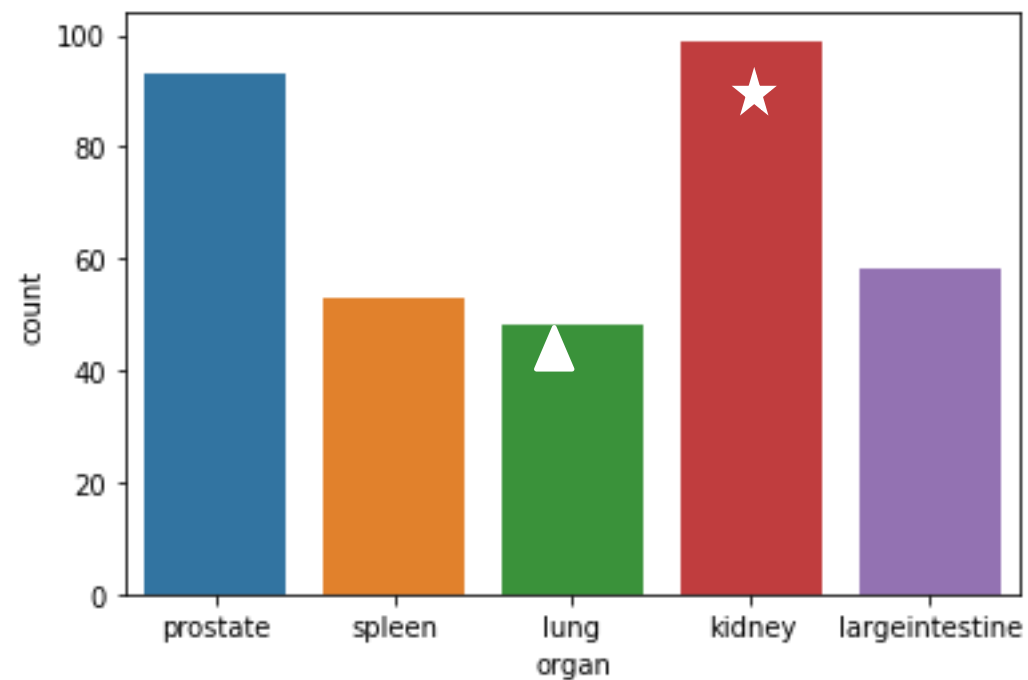
## SECOND PART

MINGZIRUI WU BOTAO JIANG

# IMBALANCED DATASET

- Overall, the cases in the dataset:
    - Kidney          99
    - Prostate        93
    - Large intestine 58
    - Spleen          53
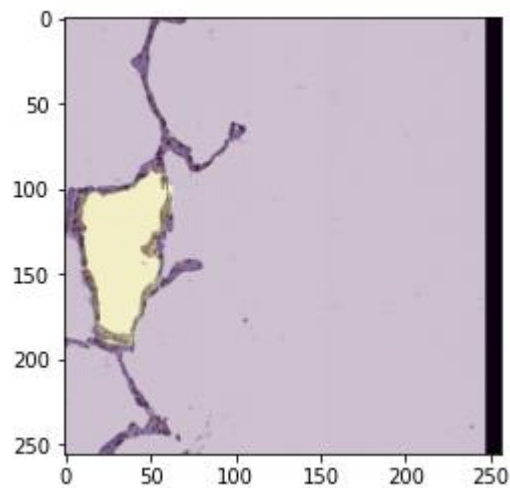    - Lung            48

# IMBALANCED DATASET

- Implement augmentation for different times separately

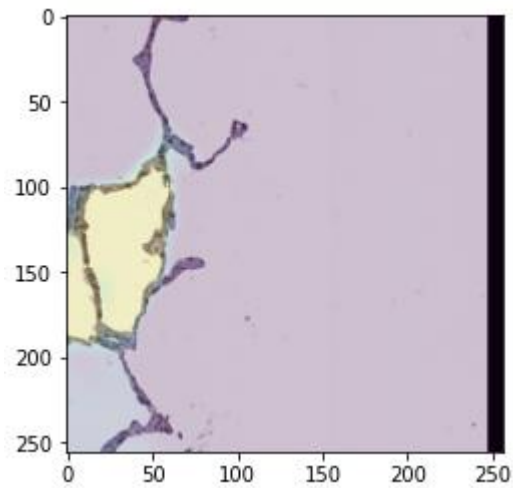| Organ | Time | Final Number |
|---|---|---|
| Kidney | 1 | 186 |
| Prostate | 1 | 212 |
| Spleen | 3 | 192 |
| Large intestine | 3 | 198 |
| Lung | 3 | 232 |

- The number of different classes are more balanced!
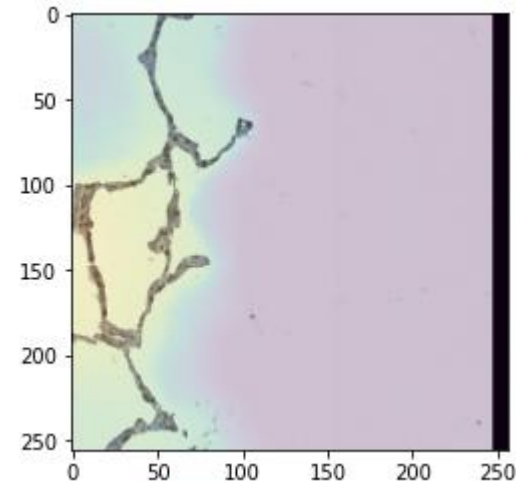
# IMBALANCED DATASET

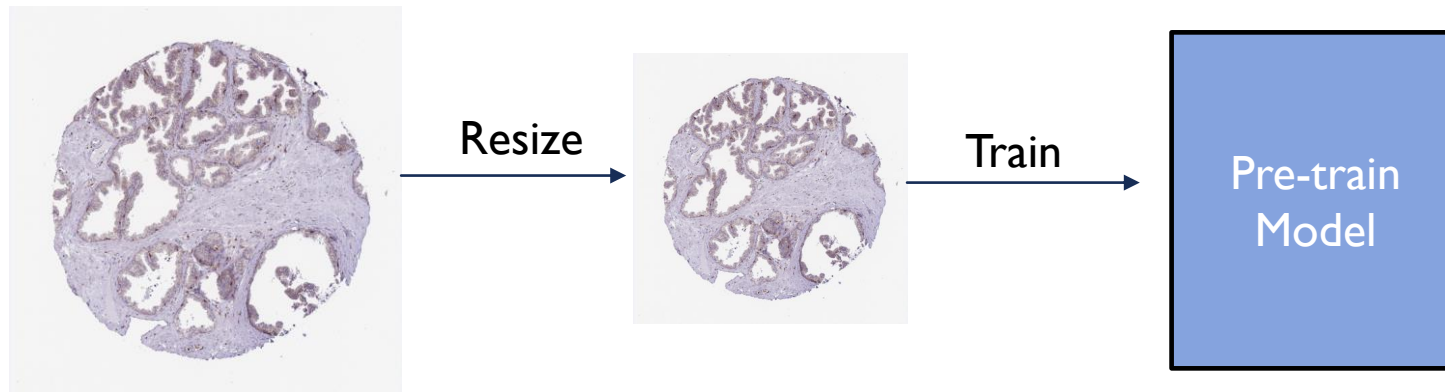Result on 5086_0005.png



GT
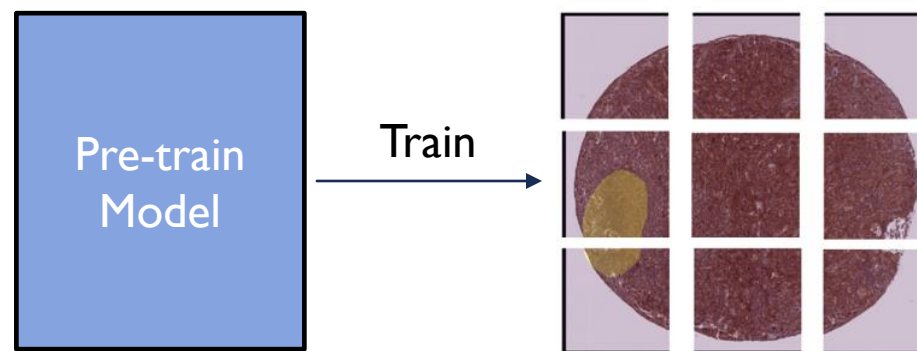
B7
(Balanced dataset)

B7
(Original dataset)

# ANOTHER IDEA: PRE-TRAIN FOR ENSEMBLE

- Pre-train on resized whole images for global features



- Then train on split tiles for local features

# Thank you!