A Deep Learning Approach for Semantic, Multi-Organ Segmentation of PET Images

- A 3D CNN has been developed for PET image volume segmentation

- 60 anatomical tissue classes

- Works simultaneously for multiple tracers
  - ^{18}F-FDG
  - ^{68}Ga-PSMA
  - ^{68}Ga-DOTATATE

- Total DICE score between PET and CT
  - 2 test subjects:
    - 0.83 for FDG (top)
    - 0.74 for PSMA (bottom)