

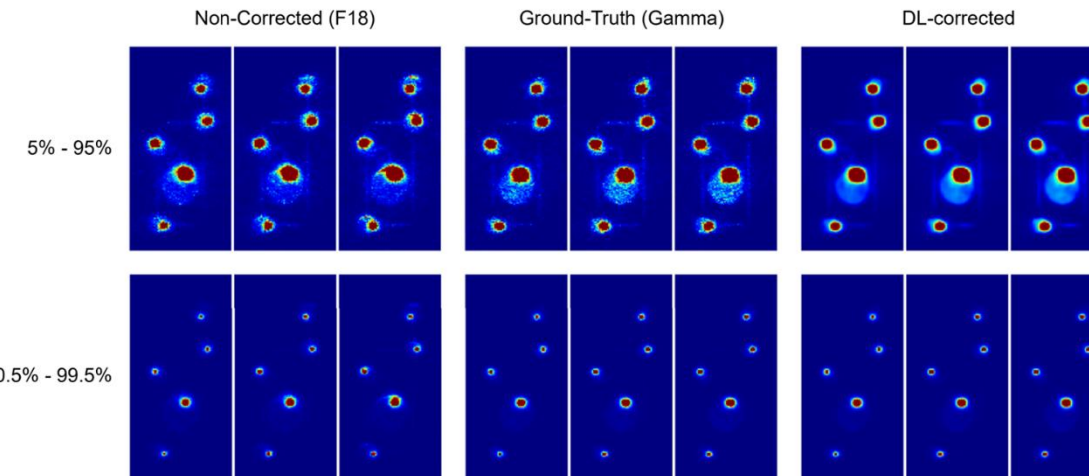
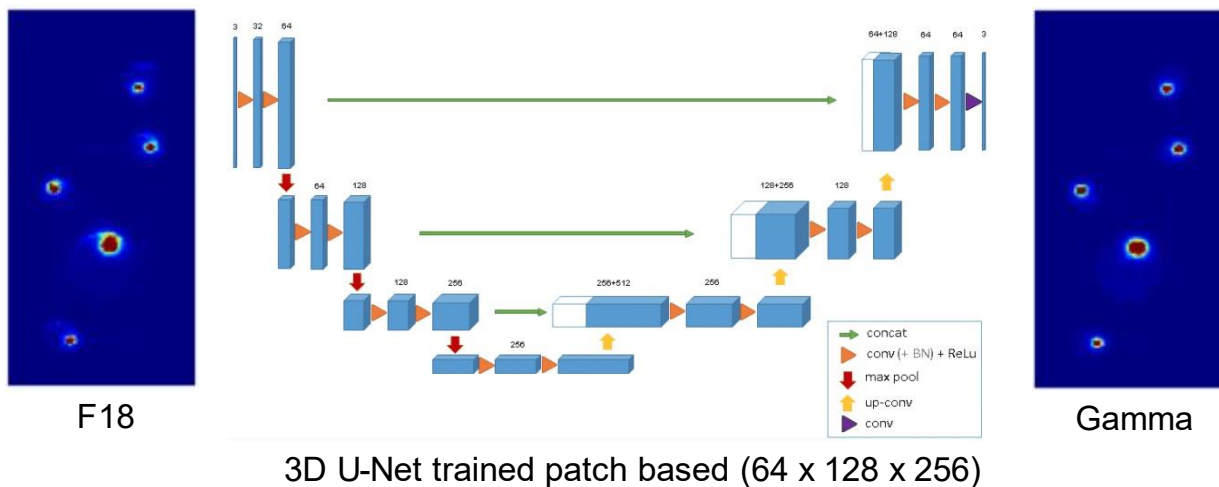
Positron-Range Correction for an On-Chip PET Scanner using Deep Learning

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Introduction & Method

- Previously introduced On-Chip PET scanner designed for Organs-on-Chips (OOCs) applications
- Trained Deep Learning model for image-to-image translation converting non-positron-range corrected images into positron-range corrected ones



Results & Discussion

DL-based approach improved the spatial resolution of the reconstructed images in the test set from FWHM values of 0.260 mm in the non-corrected images to 0.177 mm in the corrected ones

Non-Corrected	Ground-Truth	DL-corrected
0.260 mm	0.169 mm	0.177 mm