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Enabling new trends in molecular imaging

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We will review the new trends and the exciting future developments of molecular imaging, and relate them to how the industry can enable and strengthen these new directions.

1)Enabling new trends:

i)Theranostics and its role in personalized medicine, and the associated requirements on present and future generations of PET scanners

ii)Beyond "generic"FDG imaging, new specific tracers and some examples: prostate cancer, Alzheimer.

iii)Beyond "static"SUV imaging, dynamic imaging, parametric imaging

2) Enabling promising applications: Prostate cancer, Lung cancer, Breast, pancreas, and Screening of genetically high risk patients

3) Enabling better workflow and patient comfort: faster scans, patient comfort, continuous bed motion, computer guided/assisted scans, dosimetry

4) Enabling better image quality and image reconstruction: Motion correction, Low dose, TOF reconstruction

5) Envisioning technological innovation: Dedicated scanners for cardiac, brain, surgical probes; improve TOF performance and PET sensitivity

6) Enabling clinical research: Easier access to data via listmode and dynamic imaging

Summary

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