

# **HAND BOOK ON RADIOLOGICAL ANATOMY**

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&  
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**ligand to create a radioligand**, which is of interest for its chemical binding properties to certain types of tissues.

- SPECT is similar to PET in its use of radioactive tracer material and detection of gamma rays.
- In contrast with PET, however, the tracer used in SPECT emits gamma radiation that is measured directly, whereas PET tracer emits positrons that annihilate with electrons up to a few millimeters. A PET scanner detects these emissions "coincident" in time, which provides more radiation event localization information and, thus, **higher spatial resolution images than SPECT** (which has about 1 cm resolution).
- SPECT scans, however, are significantly less expensive than PET scans, in part because they are able to use longer-lived more easily-obtained radioisotopes than PET.
- away, causing two gamma. A PET scanner detects these emissions "coincident" in time, which provides more radiation event localization information and, thus, **higher spatial resolution images than SPECT** (which has about 1 cm resolution).
- SPECT scans, however, are significantly less expensive than PET scans, in part because they are able to use longer-lived more easily-obtained radioisotopes than PET.
- photons to be emitted in opposite directions.

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