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3D Printed Alignment Apparatus for Retrofitted Rodent PET-MRI at 9.4 Tesla

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We propose a retrofitted alignment apparatus that attaches to the MRI's motor-driven automated positioning system and enables simultaneous PET-MRI at 9.4T with a stand-alone microPET ring. The system leverages 3D printing technology to achieve stable alignment between the two modalities, consistent placement of animals, and rapid reconfiguration between PET-MRI and MRI-only experiments.

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