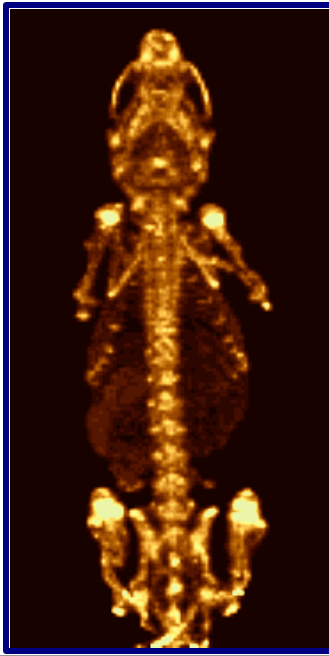
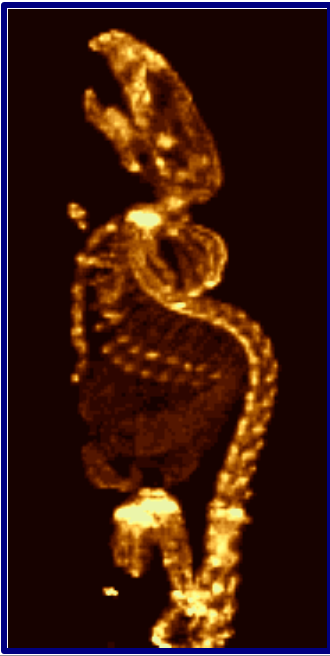


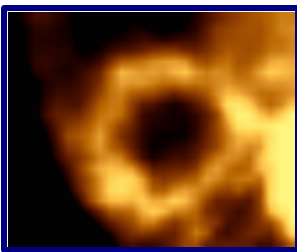
Dr. Stephen Moore, Associate Professor of Radiology and Physicist in the Joint Program in Nuclear Medicine has announced installation of a high performance, multi-scale SPECT scanner at the Harvard Medical School; pinhole collimators are now being tested, and calibration and image reconstruction software development is well underway.

Bob Zimmerman, M.S.E.E., Physicist in the Joint Program in Nuclear Medicine and **Ash Mahmood, Ph.D.**, Associate Director of the Joint Program in Nuclear Medicine Radiopharmacy, are currently working to acquire data and images from phantoms and mice in anticipation that the micro-SPECT system will soon be available for collaborative research projects among the JPNM members and other investigators.

The following images of mice, anesthetized but alive and breathing, provide preliminary indications of the instrument's capabilities. The researchers expect that imaging of mice with better than 1-mm resolution (and rats with better than 2-mm resolution) will be possible routinely.



Lateral and posterior maximum-intensity projection images from a 30-minute scan of a mouse containing 26.3 MBq (710 uCi) of Tc-99m-MDP at the time of imaging.



Myocardial perfusion image.
1.6-mm-thick short-axis slice from a 30 minute scan of a mouse containing 60 mBq (1.62 mCi) of Tc-99m MIBI at the time of imaging.