

New screening method quickly identifies mice bred for bone marrow regeneration studies

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Immunocompromised mice, created by inactivating the genes that would allow them to recognize and attack donor cells or organs, are critical for studies of bone marrow reconstitution. A more rapid and reliable technique for identifying these mice in breeding colonies is described in

an article in *BioResearch Open Access*, a peer-reviewed open access journal from Mary Ann Liebert, Inc., publishers.

Alejandro Ferrer, Adam Schrum, and Diana Gil, College of Medicine, Mayo Clinic (Rochester, MN), designed a simple method for identifying mice with specific gene deletions or replacements, using a [DNA amplification](#) technique called [polymerase chain reaction](#), or PCR. They describe the use of this approach in the article "[A PCR-Based Method to Genotype Mice Knocked Out for All Four CD3 Subunits, the Standard Recipient Strain for Retrogenic TCR/CD3 Bone Marrow Reconstitution Technology.](#)"

"This technical report describes for the first time a simple PCR-based screen to identify TCR/CD3 [knockout mice](#)," says *BioResearch Open Access* Editor Jane Taylor, PhD, MRC Centre for Regenerative Medicine, University of Edinburgh, Scotland. "This rapid method will provide a valuable tool for all researchers using TCR/CD3 retrogenesis."

More information: The article is available free on the [BioResearch Open Access website](#).

Provided by Mary Ann Liebert, Inc

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