Docket #: S13-001

H11 and 2F3 cell line

Researchers in Dr. Shoshana Levy's lab have created a pro B cell lines that provides the first B cell lineage tumors in a C57BL mouse strain. The cell lines, known as H11 and 2F3, were made by transducing mouse bone marrow with BCR-ABL retrovirus. The H11 and 2F3 cell lines may be used in immunotherapy and tumor biology research.

Stage of research

The H11 cell line has been used to develop a whole tumor cell vaccine in adoptive cell therapy studies.

Applications

- Tumor biology
- Immunology

Advantages

- First B cell lineage tumors in C57BL strain of mouse
- Grows in tissue culture
- Transplantable in syngeneic mice
- Cell line is MHC class II negative
- Cells can be loaded with reagents and labeled for visualization
- Can isolate ample numbers of these cells to prepare vaccine

Publications

 Goldstein MJ, Varghese B, Brody JD, Rajapaksa R, Kohrt H, Czerwinski DK, Levy S, Levy R. A CpG-loaded tumor cell vaccine induces antitumor CD4+ T cells that are effective in adoptive therapy for large and established tumors. Blood. 2011 Jan 6;117(1):118-27. doi: 10.1182/blood-2010-06-288456. Epub 2010 Sep 27.

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 Adoptive cell therapy for lymphoma with CD4 T cells depleted of CD137expressing regulatory T cells. Cancer Res. 2012 Mar 1;72(5):1239-47. doi: 10.1158/0008-5472.CAN-11-3375. Epub 2012 Jan 9.
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Innovators

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