



(12) **United States Patent**
Har-Noy

(10) **Patent No.:** **US 7,402,431 B2**
(45) **Date of Patent:** ***Jul. 22, 2008**

(54) **T-CELL THERAPY FORMULATION**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 160 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **11/069,010**

(22) Filed: **Mar. 1, 2005**

(65) **Prior Publication Data**

US 2005/0214274 A1 Sep. 29, 2005

Related U.S. Application Data

(60) Provisional application No. 60/549,032, filed on Mar. 1, 2004.

(51) **Int. Cl.**

C12N 5/06 (2006.01)

C12N 16/00 (2006.01)

(52) **U.S. Cl.** **435/372.3**; 530/391.1

(58) **Field of Classification Search** None
See application file for complete search history.

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(57) **ABSTRACT**

Ex-vivo prepared T-cells are harvested from cell culture conditions and formulated in medium suitable for infusion. The formulation is made by labeling the cells with one or more agents which have reactivity for T-cell surface moieties capable of delivery activation signals upon cross-linking and mixing the labeled cells with biodegradable nanospheres or microspheres coated with a material capable of cross-linking the agents attached to the T-cell surface moieties. Alternatively, the formulation may be made by mixing a population of T-cells with biodegradable nanospheres or microspheres coated with a first material and one or more second materials. The first material binds the second material and the second material has reactivity for surface moieties on the T-cells and the interaction of the second materials with the T-cells causes the activation of the T-cells. In either method, the mixture of T-cells and biodegradable spheres are suspended in a medium suitable for infusion, and the mixture is packaged in a container.

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