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(71) **Applicant**: **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** [US/US]; 77 Massachusetts Avenue, Cambridge, MA 02139 (US).

(72) **Inventors**: **BOUGUERMOUH, Salim**; C/o Singapore-mit Alliance For, Research/technology, 3 Science Drive 2, S16-05-08, Singapore, 117543 (SG). **KHOURY, Maroun**; 200 Pasir Panjang Road, #1-18, Singapore, 118571 (SG). **CHEN, Qingfeng**; C/o Singapore-mit Alliance For, Research/technology, 3 Science Drive 2, S16-05-08, Singapore, 117543 (SG). **CHEN, Jianzhu**; 31 Wyman Road, Laxington, MA 02420 (US).

(74) **Agents**: **COLLINS, Anne, J.** et al.; Hamilton, Brook, Smith & Reynolds, P.c., 530 Virginia Rd, P.o. Box 9133, Concord, MA 01742-9133 (US).

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(54) **Title**: USE OF HUMANIZED MICE TO DETERMINE TOXICITY

(57) **Abstract**: The invention is directed to a method of determining whether an agent causes immune toxicity in a human. The method comprises administering the agent to a non-human mammal that has been engrafted with human hematopoietic stem cells (HSCs) and administered one or more human cytokines; and determining whether the agent causes immune toxicity in the non-human mammal, wherein if the agent causes immune toxicity in the non-human mammal then the agent causes toxicity in a human. In another aspect, the invention is directed to a method of determining whether administration of an agent causes cytokine release syndrome in an individual in need thereof. The method comprises administering the agent to a non-human mammal that has been engrafted with HSCs and administered one or more human cytokines; and determining whether the agent causes cytokine release syndrome in the non-human mammal, wherein if the agent causes cytokine release syndrome in the non-human mammal then the agent will cause cytokine release syndrome in the human.