

Declaration of Richard P. Junghans, Ph.D., M.D.

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

MILTENYI BIOMEDICINE GmbH and MILTENYI BIOTECH INC.
Petitioner

v.

THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA
Patent Owner

IPR Trial No. IPR2022 -
U.S. Patent No. 9,540,445
Issue Date: January 10, 2017

Title: Compositions and Methods for Treatment of Cancer

DECLARATION OF DR. RICHARD P. JUNGHANS

**IN SUPPORT OF PETITION FOR INTER PARTES REVIEW OF
U.S. PATENT NO. 9,540,445**

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2. “[b] an anti-tumor effective amount of a population of human T cells”101

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4. “[d] wherein the CAR comprises a CD19 antigen binding domain comprising, from the amino to the carboxy terminus, a light chain variable region and a heavy chain variable region of SEQ ID NO:20”104

5. “[e] wherein the CAR further comprises a transmembrane domain, a 4-1BB costimulatory signaling region, and a CD3 zeta signaling domain”107

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