(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

G00001

(43) International Publication Date
12 July 2001 (12.07.2001)

PCT

(10) International Publication Number
WO 01/49829 A1

(51) International Patent Classification[7]: C12N 7/00, 5/08, 15/00, C07H 21/02, 21/04

(21) International Application Number: PCT/US01/00429

(22) International Filing Date: 5 January 2001 (05.01 2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/174,985	5 January 2000 (05.01.2000)	US
60/205,519	19 May 2000 (19 05.2000)	US

(71) Applicant *(for all designated States except US)*: **FRED HUTCHINSON CANCER RESEARCH CENTER** [US/US], 1100 Fairview Avenue N, M/S C2M 027, Seattle, WA 98109 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **MILLER, Arthur, Dusty** [US/US], 5524 16th Avenue N.E., Seattle, WA 98105 (US). **ALLEN, James, M.** [US/US], 7757 39th Avenue N.E., Seattle, WA 98115 (US) **HALBERT, Christine, L.** [US/US], 2314 184th Place S.W, Bothell, WA 98012 (US)

(74) Agents: **POOR, Brian, W.** et al., Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111 (US).

(81) Designated States *(national)*: AU, CA, JP, US.

(84) Designated States *(regional)*: European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR)

Published:
— *With international search report*
— *Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette

162162

WO 01/49829 A1

(54) Title: COMPOSITIONS AND METHODS FOR EFFICIENT AAV VECTOR PRODUCTION

(57) Abstract: The present invention provides packaging cell lines for the efficient production of an Adeno-associated virus (AAV) vector which does not require "helper" virus function for the replication and encapsidation of the AAV vector particles. Packaging cells, methods for their production and methods for producing recombinant AAV vector particles useful for human gene therapy are provided.