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(71) Applicant: **REGENTS OF THE UNIVERSITY OF MINNESOTA** [US/US]; 600 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, Minnesota 55455-2020 (US).

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(72) Inventors; and

(71) Applicants: **O'BRIEN, Timothy D.** [US/US]; 280 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, Minnesota 55455 (US). **LINDBORG, Beth** [US/US]; 280 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, Minnesota 55455 (US). **VEGOE, Amanda** [US/US]; 280 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, Minnesota 55455 (US). **RAMACHANDRAN, Sabarinathan** [US/US]; 280 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, Minnesota 55455 (US). **RANGARAJAN, Parthasarathy** [IN/US]; 280 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, Minnesota 55455 (US).

(74) Agent: **GRAM, Christopher**; Muecting Raasch Group, 111 Washington Avenue South, Suite 700, Minneapolis, Minnesota 55401 (US).

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(54) Title: ORGANOID-DERIVED EXOSOME PRODUCTS, METHODS OF MAKING, AND METHODS OF USE

(57) Abstract: A method of preparing exosomes generally includes providing a multi-tissue organoid, culturing the multi-tissue organoid in culture medium, collecting at least a portion of the culture medium, and isolating exosomes from the culture medium. The exosomes express at least one marker identifying the exosomes as being isolated from culture medium in which a multi-tissue organoid is cultured. The exosomes may be used in methods to treat a subject having, or at risk of having, a condition treatable with exosomes isolated from culture medium in which a multi-tissue organoid is cultured. Generally, the method includes administering to the subject a pharmaceutical composition that includes an effective amount of exosomes isolated from culture medium in which a multi-tissue organoid is cultured.



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