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(71) Applicant: **FELDAN BIO INC.** [CA/CA]; 2666 Boul. Du Parc Technologique, Suite 290, Quebec, Québec G1P 4S6 (CA).

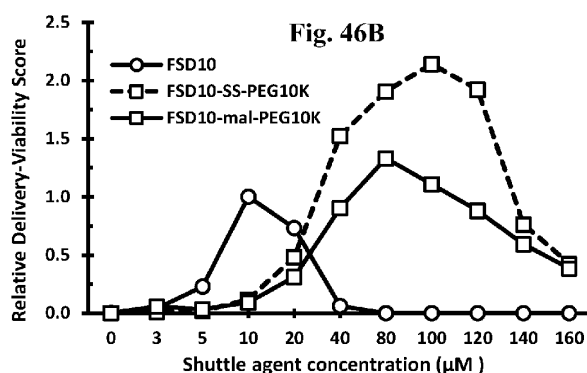
(72) Inventors: **SOULTAN, Al-Halifa**; c/o FELDAN BIO INC., 2666 Boul. Du Parc Technologique, Suite 290, Quebec, Quebec G1P 4S6 (CA). **GUAY, David**; c/o FELDAN BIO INC., 2666 Boul. Du Parc Technologique, Suite 290, Quebec, Quebec G1P 4S6 (CA). **LEPETIT-STOFFAES, Jean-Pascal**; c/o FELDAN BIO INC., 2666 Boul. Du Parc

Technologique, Suite 290, Quebec, Quebec G1P 4S6 (CA). **DEL'GUIDICE, Thomas**; c/o FELDAN BIO INC., 2666 Boul. Du Parc Technologique, Suite 290, Quebec, Quebec G1P 4S6 (CA). **BARBEAU, Xavier**; c/o FELDAN BIO INC., 2666 Boul. Du Parc Technologique, Suite 290, Quebec, Quebec G1P 4S6 (CA). **PARENT, Victor**; c/o FELDAN BIO INC., 2666 Boul. Du Parc Technologique, Suite 290, Quebec, Quebec G1P 4S6 (CA). **GAUTHIER, Marc-Andre**; c/o FELDAN BIO INC., 2666 Boul. Du Parc Technologique, Suite 290, Quebec, Quebec G1P 4S6 (CA). **GRESCHNER, Andrea Ann**; c/o FELDAN BIO INC., 2666 Boul. Du Parc Technologique, Suite 290, Quebec, Quebec G1P 4S6 (CA).

(74) Agent: **ROBIC S.E.N.C.R.L. / LLP**; 630 Rene-Levesque Boulevard West, 20th Floor, Montreal, Québec H3B 1S6 (CA).

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(54) Title: SYNTHETIC PEPTIDE SHUTTLE AGENT BIOCONJUGATES FOR INTRACELLULAR CARGO DELIVERY



(57) Abstract: Bioconjugates for mediating cytosolic/nuclear and/or intracellular delivery of a membrane impermeable cargo are described herein. The bioconjugates comprise one or more synthetic peptide shuttle agents conjugated in a cleavable or non-cleavable fashion to a linear or multi-armed biocompatible non-anionic hydrophilic polymer, which may optionally be further covalently linked to a cargo. Bioconjugation generally allows for usage at a higher shuttle agent or shuttle agent monomer concentration, usage at a broader effective concentration window, and/or improved performance for in vivo administrations (e.g., to target organs or tissues contacting or proximal to bodily fluids and/or secretions), as compared to a corresponding unconjugated shuttle agent.

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