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(71) Applicant *(for all designated States except US)*: **PURDUE RESEARCH FOUNDATION** [US/US]; 3000 Kent Avenue, West Lafayette, IN 47906 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **PANITCH, Alyssa** [US/US]; 607 Hillcrest Road, West Lafayette, IN 47906 (US). **PADERI, John, Eric** [US/US]; 117 North 5th Street, Apt. 309, Lafayette, IN 47901 (US). **PARK, Kinam** [KR/US]; 455 Lagrange Street, West Lafayette, IN 47906 (US). **STUART, Katherine** [US/US]; 117 North 5th Street, Apt. 312, Lafayette, IN 47901 (US). **HIGBEE, Steve** [US/US]; 705 North 5th Street Apt. 31, Lafayette, IN 47901 (US).

(74) Agent: **BALL, Rebecca, L.**; Barnes & Thornburg Llp, 11 South Meridian Street, Indianapolis, IN 46204 (US).

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Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

[Continued on next page]

(54) Title: COLLAGEN-BINDING SYNTHETIC PEPTIDOGLYCANS, PREPARATION, AND METHODS OF USE

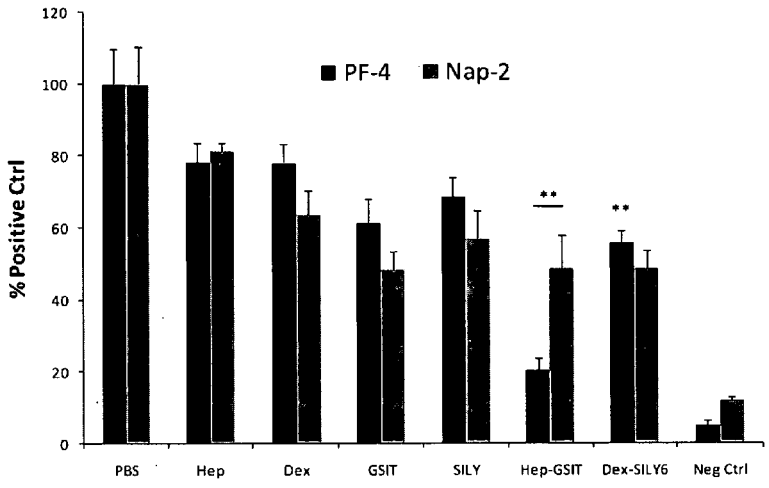


FIGURE 40

(57) Abstract: This invention relates to collagen-binding synthetic peptidoglycans and engineered collagen matrices comprising a collagen matrix and a collagen-binding synthetic peptidoglycan where the collagen-binding synthetic peptidoglycan can be aberrant or can have amino acid homology with a portion of the amino acid sequence of a protein or a proteoglycan that regulates collagen fibrillogenesis. The invention also relates to kits, compounds, compositions, and engineered graft constructs comprising such collagen-binding synthetic peptidoglycans or engineered collagen matrices and methods for their preparation and use.

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