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Kraynov et al.

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(54) **METHODS OF TREATMENT USING MODIFIED RELAXIN POLYPEPTIDES COMPRISING A NON-NATURALLY ENCODED AMINO ACID**

(71) Applicant: **AMBRX, INC.**, La Jolla, CA (US)

(72) Inventors: **Vadim Kraynov**, San Diego, CA (US); **Nick Knudsen**, Escondido, CA (US); **Amha Hewet**, Chula Vista, CA (US); **Kristine De Dios**, San Diego, CA (US); **Jason Pinkstaff**, Encinitas, CA (US); **Lorraine Sullivan**, San Diego, CA (US)

(73) Assignee: **AMBRX, INC.**, La Jolla, CA (US)

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(52) **U.S. Cl.**

CPC ***A61K 38/2221*** (2013.01); ***C07K 14/64*** (2013.01)

(58) **Field of Classification Search**

None

See application file for complete search history.

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Primary Examiner — Christine J Saoud

(74) *Attorney, Agent, or Firm* — Robin L. Teskin; Baker, Donelson, Bearman, Caldwell & Berkowitz PC

(57) **ABSTRACT**

Modified relaxin polypeptides and their uses thereof are provided. Exemplary embodiments provide relaxin polypeptides which include one or more amino acid substitutions with natural or non-naturally encoded amino acids, and/or linkage to a water-soluble polymer, such as polyethylene glycol. Additionally, use of said relaxin polypeptides for treatment of disease, such as heart failure, is also provided.

24 Claims, 30 Drawing Sheets

Specification includes a Sequence Listing.