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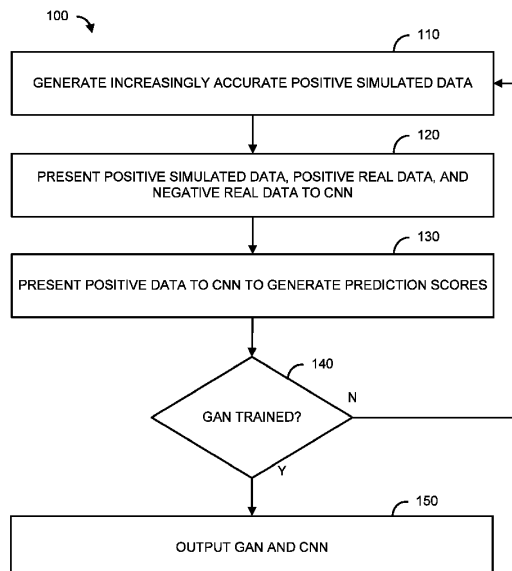
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(54) Title: GAN-CNN FOR MHC PEPTIDE BINDING PREDICTION

FIG. 1



(57) Abstract: Methods for training a generative adversarial network (GAN) in conjunction with a convolutional neural network (CNN) are disclosed. The GAN and the CNN can be trained using biological data, such as protein interaction data. The CNN can be used for identifying new data as positive or negative. Methods are disclosed for synthesizing a polypeptide associated with new protein interaction data identified as positive.

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