

# Delving Deep into the Structural Aspects of the BPro28-BLys29 Exchange in Insulin *Lispro*: A Structural Biophysical Lesson

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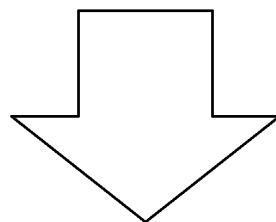
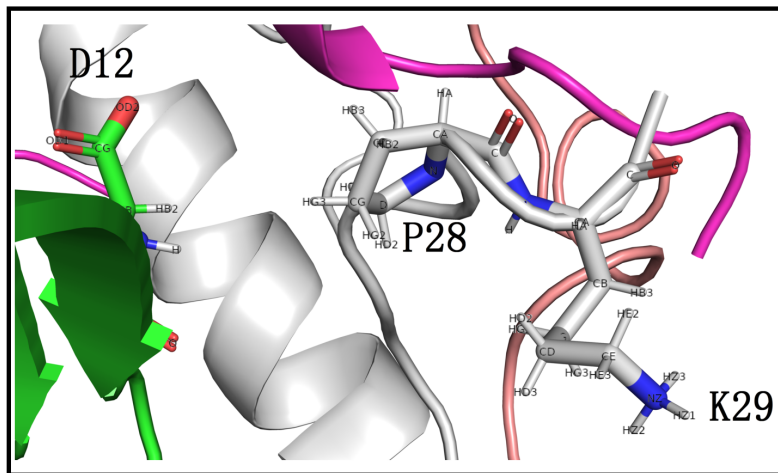
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# Graphical Abstract

# Regular insulin



# Insulin lispro

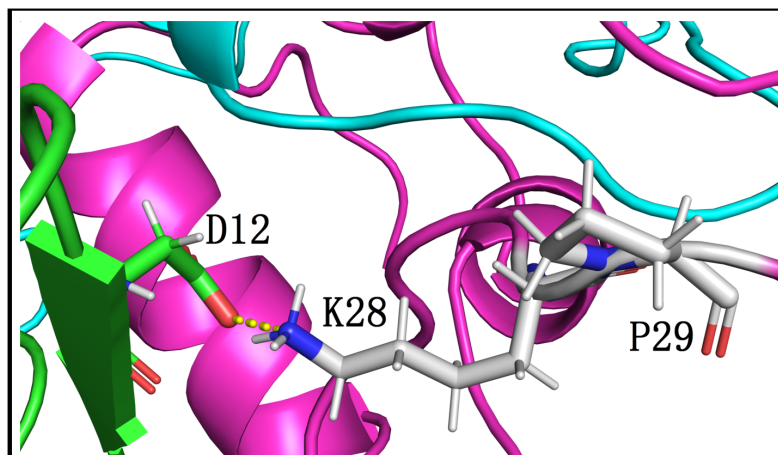


Figure 1: The net biophysical impact of the simple BPro28-BLys29 exchange is a novel set of interfacial structurally stabilizing interactions (yellow dotted line, including salt bridges and side chain hydrogen bond) between Lys28 of insulin lispro and Asp12 of insulin receptor (IR).