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## From insulin to Gazlin

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For about one century insulin was a dominant player in the diabetes field. Using a sophisticated mechanism of action, insulin prohibited other medicine from finding their way to market. Indeed insulin was a complete cure of diabetes so that as no one felt a need to substitution for that. So all attempts were limited to manipulate insulin's form and usage to satisfy market demands. However, nature refused to obey insulin domination in diabetes world by creating an insulin-like cyclic peptide in nettle leaves. Gazlin, (gazaneh = nettle in Persian + Insulin) a nano peptide purified from *Urtica dioica* extract, is a kind of chemical with a pore-making capacity in the cell membrane and allows glucose to penetrate into the cell. In this way, Gazlin mimics insulin's last step with no demand for insulin transaction pathway at all. Hence, Gazlin presence by itself gives the insight to find other cures for diabetes. Breaking a mental barrier, Gazlin could open a new era in the diabetes world, and give a gut to researchers to trust an insulin-free world as well. During my speech, I am going through to review the topics such as the footsteps towards Gazlin discovery which was documented in about a quarter century in Iran and Canada, its current status, and its perspective and potency in diabetes cure.

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