



Conference Abstract

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Competing Interest
The authors declare no competing interests.

Additional information is available at the end of the article.

Conference Abstract

THE QUR'AN ON THE MOLECULAR SWITCHES THAT TURN ON PANCREATIC REGENERATION

Sohail Zakiuddin Husain

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Key words: Molecular, Switches Pancreatic.

Speakers Profile

Dr. Husain is an Associate Professor of Pediatric Gastroenterology at the University of Pittsburgh. His research focuses treating pancreatitis, which is a painful, inflammatory pancreatic disease. Dr. Husain has published over 55 scientific papers and holds two large independent research grants from the NIH. He also serves as a standing NIH study section member, Chair of a major GI abstract committee, Vice-Chair of the Pancreas Committee of the North American Pediatric GI Society, and Co-Director of the Pittsburgh Pediatric Pancreatic Program. On a Jamaat level, Dr. Husain serves as President of the USA Ahmadiyya Muslim Scientists.

Abstract

The Quran provides a distinct sequence by which an embryo forms, and it also suggests the possibility of whole organism or specific organ renewal along the lines of the initial formation. In particular, the Quran mentions an "izama," or substrate, that is necessary to allow for the completion of the process of embryogenesis. Based on the principle that regeneration of organs is possible, but along an identifiable pathway that requires key "izamas," we hypothesized that, in the context of pancreatic regeneration after injury, there were key molecular switches that turned on, or reprogrammed, the organ towards completion of regeneration.

We examined the role of the epigenetic proteins the histone deacetylases (HDACs)

as a key switch and found that they indeed were necessary for turning on the processes that allowed the final maturation of the regenerating pancreas. We hope that this insight from the Holy Quran will be beneficial in providing principles for a pathway through epigenetic reprogramming to enhance organ regeneration after injury and will thus treat organ-based disorders.



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