



Eradicating Disease: A Genome to Drug Pathway

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ABSTRACT: The post-genomic era has triggered high expectations for a rapid and successful treatment of diseases. However, in this biological information rich and functional knowledge poor scenario, the challenges are indeed grand. These include interpreting the language of genomic DNA, identifying and assigning function to protein coding regions, earmarking druggable protein targets, predicting the three-dimensional structures of these targets from their amino acid sequences and arriving at lead compounds (drug molecules) which inhibit or activate these targets as required, followed by a transition from laptop to bench to bedside. The presentation will sketch a “Genomes to Hit Molecules *In Silico*” strategy developed at IITD and named *Dhanvantari*, which is a country path today but a highway tomorrow for eradicating disease. © 2014 iGlobal Research and Publishing Foundation. All rights reserved.

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