



Computer Science Department

Natural Selection and Algorithmic Design of mRNA
Barry Cohen, Ph.D.

Hosted by Przemyslaw Musialski, Ph.D.

Date: Wednesday, January 27, 2021

Time: 2:30 PM - 3:30 PM

WebEx: <https://njit.webex.com/njit/j.php?MTID=m2975ca9887212bd1716bbcabc414bae0>

Abstract:

The first vaccines for Covid-19 that have been submitted for FDA approval employ a new approach to vaccine design based in messenger RNA (mRNA). This talk will present work on the algorithmic design of optimally stable mRNA sequences that the author published 20 years ago that relates to vaccine design, and also some recent related results. (No special knowledge of biology is assumed.)

Bio:

Barry Cohen received a PhD in Computer Science from Stonybrook University. His primary research area is bioinformatics. He also has investigated how to employ cryptography to conduct secure and transparent elections and holds several election patents. Since retiring from the position of Associate Dean of the Ying Wu College of Computer Science he has adjunct for the Computer Science department.