

# Microbial Genetics and Molecular Microbiology

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Influenza infections can result in seasonal outbreaks and epidemics in the USA. The 2014-2015 influenza outbreak was attributed to the H3N2 influenza A strain. This outbreak was partly attributed to the mismatch between the causative H3N2 influenza A strain and the annual influenza vaccine. The aim of this study was to determine if the mismatch between the causative influenza strain and the vaccine impacted vaccine rates or other protective health behaviours amongst college students. In this study, an online survey was used to determine the rate the influenza vaccination rates and any changes in student hygienic behaviours during the 2014- 2015 influenza season amongst college students. Survey responses were collected from Jan. 15, 2015 to Feb. 15, 2015, and elicited 265 responses from undergraduate students. The total vaccine rate among respondents was 23%, but compared to the previous year (2013-2014) the overall vaccination rate among respondents decreased by 10%. Regardless of vaccination, 53% of total respondents reported a slight change or more in the protective health behaviour of hand-washing. Molecular Genetics in 1988.

In his 40 year career in plant science, he has developed deep interests in plant development and its genetic. The influenza vaccination rate amongst college students is within the range of the national CDC vaccination rate of 31% for this age group. The decrease in vaccination rates from 2013-2014 to 2014-2015 was consistent with the mismatch between the influenza strain and vaccine targets. Beyond vaccination, protection against influenza also involves enhanced personal and hand-hygiene behaviours. Such behaviours are very important on a college campus due to close living conditions.

He has focused his interests on legume plants and especially the process of root nodulation which is a prerequisite for symbiotic nitrogen fixation. He has published over 300 research papers, edited 10 books and is Co-Inventor listed on 12 patents. He is a fellow of the Indian National Academy of Agricultural Sciences, the Russian Academy of Agricultural Sciences and the American Association for the Advancement of Science (AAAS). He is a Member of numerous international Editorial Boards as well as expert Advisor to the IAEA, the European Union, Qantas and other biotechnology interests. He is a dedicated Teacher and Researcher and feels that the understanding of biological processes is essential for industrial development of an idea.

This work is partly presented at [4<sup>th</sup> International Conference on Microbial Genetics , 2021](#)