

European Congress on Vaccines & Vaccination and Gynecologic Oncology

October 26-27, 2018 Budapest, Hungary

Kathleen Hefferon, Journal of Clinical Immunology and Allergy, Volume: 4 DOI: 10.21767/2471-304X-C2-004

PLANT VIRUS NANOPARTICLES: NEW Applications for developing countries

Kathleen Hefferon

Cornell University, USA

For over two decades now, plants have been explored for their potential to act as production Platforms for biopharmaceuticals such as vaccines and monoclonal antibodies. Without a doubt, the development of plant viruses as expression vectors for pharmaceutical production have played an integral role in the emergence of plants as inexpensive and facile systems for the generation of therapeutic proteins. More recently, plant viruses have been designed as non-toxic nanoparticles which can target a variety of cancers and thus empower the immune system to slow or even reverse tumor progression. The following presentation describes the employment of plant virus expression vectors for the treatment of some of the most challenging diseases known today. The presentation concludes with a projection of the multiple avenues by which virus nanoparticles could impact developing countries.



Euro Vaccines 2018

Biography

Kathleen Hefferon has received her PhD from the Department of Medical Biophysics, University of Toronto and completed her Postdoctoral Fellowship at Cornell University. She has published multiple research papers, chapters and reviews, and has written three books. She is the Fulbright Canada Research Chair of Global Food Security and has been a Visiting Professor at the University of Toronto over the past years. Her research interests include virus expression vectors, food security agricultural biotechnology and global health.

klh22@cornell.edu