



ARMCHAIR CONVERSATION

WITH PRINCE MAHIDOL AWARD LAUREATES 2021

| **BACKGROUND**

On Tuesday 25 January 2022 (During Welcome Reception)

19:00 - 21:00 hrs. Thailand Time

| **OBJECTIVES**

PMA Laureates Armchair Conversation



Keynote

Drew Weissman

Professor of Medicine, and Roberts Family Professor in Vaccine Research

University of Pennsylvania, Philadelphia, PA.
United States of America

Drew Weissman, M.D., Ph.D. is a professor of Medicine at the Perelman School of Medicine, University of Pennsylvania. He received his graduate degrees from Boston University School of Medicine. Dr. Weissman, in collaboration with Dr. Katalin Karikó, discovered the ability of modified nucleosides in RNA to suppress activation of innate immune sensors and increase the translation of mRNA containing certain modified nucleosides. The nucleoside-modified mRNA-lipid nanoparticle vaccine platform Dr. Weissman's lab created is used in the first 2 approved COVID-19 vaccines by Pfizer/BioNTech and Moderna. They continue to develop other vaccines that induce potent antibody and T cell responses with mRNA-based vaccines. Dr. Weissman's lab also develops methods to replace genetically deficient proteins, edit the genome, and specifically target cells and organs with mRNA-LNPs, including lung, heart, brain, CD4+ cells, all T cells, and bone marrow stem cells.