

Department of Translational Genomics Translational Biotechnology Seminar

COVID-19 Vaccine Development



Pin Wang, PhD

Zohrab A. Kaprielian Fellow in Engineering
Professor,
Chemical Engineering and Materials Science
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Wednesday, April 06, 2022

1:00 PM – 2:00 pm

Zoom [Registration](#)

by 04/06 noon with USC email address

Dr. Pin Wang is an expert in immunobioengineering and a professor of Chemical Engineering and Materials Science and Biomedical Engineering at USC. Having received his BS in Materials Science and Engineering from the University of Science and Technology of China and his PhD in bioengineering from Caltech, Dr. Wang has cultivated a strong engineering background to tackle biology's most pressing issues. Dr. Wang's research has been focused on employing these engineering principles to quantitatively measure and comprehend the immune system and to develop novel immunotherapies by modulating disease-specific immune responses. Dr. Wang's ongoing research spans from engineering virus-derived vector systems for dendritic cell-targeted vaccine delivery to the development of engineering methods to improve adeno-associated virus (AAV)-based gene delivery. Given his unique expertise and his invaluable experience with novel vaccine delivery systems, his work in COVID-19 vaccine development has not gone unnoticed, especially during the early stages of the pandemic. In this seminar, Dr. Wang will discuss vaccine development using COVID vaccines as example and share the manufacturing process and challenges of making these vaccines.

