

SFB 900 Seminar Series

ALL GUESTS ARE WELCOME

TITLE

Emerging Coronavirus Pathogenesis and Prevention

SPEAKER

Prof. Ralph Baric, PhD, William R. Kenan, Jr. Distinguished Professor, Department of Epidemiology and Professor, Department of Microbiology and Immunology, UNG Gillings School of Global Public Health, Chapel Hill, NC, USA

LOCATION

Digital Lecture via video conference

Attention: WEDNESDAY

08.09.
2021

5.00 PM (s.t.)

» Research of Ralph Baric

Most of the research in our laboratory has used coronaviruses as models to study the genetics of RNA virus transcription, replication, persistence, and cross species transmission. We have also been using alphavirus vaccine vectors to develop novel candidate vaccines against caliciviruses. Specific areas of interest include: Coronavirus Reverse Genetics and vaccine development: We have developed infectious cDNAs from two coronaviruses. Specific applications include: a) studying critical cis and trans acting factors that regulate coronavirus subgenomic mRNA synthesis and replication, b) rearranging the coronavirus gene order to study genome evolution and function in coronavirus transcription and replication, c) identification of the minimal coronavirus genome, d) development of coronavirus replicon RNAs and coronavirus replicon particles for vaccine development, e) expression of heterologous genes from coronavirus vaccine vectors for swine and other important species.

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