

2022年度 第67回 大学院セミナー

Graduate School of Biomedical Sciences Seminar

2023年 1月26日

分野名 Department (責任者名)(内線)	病原原虫学分野 Dept of Medical Protozoology 責任者名(Osamu Kaneko) 内線(7838)
演題 Title	It takes two to tango: developing a vaccine targeting an essential protein-protein interaction
講師等 Presenter	Prakash Srinivasan, PhD Assistant Professor, Johns Hopkins Malaria Research Institute Dept. Molecular Microbiology and Immunology, JHBSPH
概要 Abstract	The invasion of human erythrocytes by <i>Plasmodium falciparum</i> , the causative agent of human malignant malaria, is a carefully orchestrated process involving several protein-protein interactions. While many of the adhesins have redundant functions, the interaction between two parasite proteins, apical membrane antigen 1 (AMA1) and rhoptry neck protein 2 (RON2), defines a unique adaptation in Apicomplexan parasites. RON2, as part of the RON complex of proteins, is inserted into the erythrocyte membrane during the invasion and binds to the parasite surface AMA1. This parasite-specific lock and key mechanism ensure successful entry of the parasite into erythrocytes. I will discuss our efforts to develop novel strategies to target this essential interaction. This will include our studies using a structure-guided approach to develop a strain-transcending vaccine and recent data from a Malian longitudinal cohort study that is helping us understand natural immunity targeting AMA1 and RON2.
開催日時 Date & Time	2023年2月8日(水) Feb/8/2023 17:30 ~ 18:30
場所 Face to face	グローバルヘルス総合研究棟 1F 大会議室 Seminar Room, School of Tropical Medicine and Global Health 1F
備考 Notes	

先端医療科学特論 (基礎編)

先端新興感染症病態制御学特論

日本語 (Japanese)

対面 (Face to face)

先端医療科学特論 (臨床編)

先端放射線医療科学特論

英語 (English)

オンライン(Online)