

令和5年度 第37回 大学院セミナー

令和5年7月27日

分野名 Area of Research (責任者名)(内線)	熱帯寄生虫学分野 責任者名(濱野 真二郎) 内線(7822)
演題 Title	Dissecting host immune responses to malaria infections
講師等 Presenter	Dr. Julius Hafalla Department of Infection Biology, Faculty of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine London, UK
概要 Abstract	<p>Malaria caused by the apicomplexan parasite <i>Plasmodium</i> remains a global public health problem. A highly efficacious vaccine is deemed essential to achieve the World Health Organisation's vision of "a world free of malaria". An in-depth characterisation of the generation and efficacy of parasite-specific immune responses is warranted to inform the design of future malaria vaccines. The presentation will focus on our work in both an animal model and in humans.</p> <p>First, I will update our on work in animal models where we have been testing whether immunogenicity is a critical criterion for moving candidate vaccines to additional clinical testing. We contrasted immune responses to a sporozoite surface-expressed protein and several parasitophorous vacuole membrane associated proteins expressed in exo-erythrocytic forms (EEFs). Our studies answer important questions as to whether sporozoite, early EEF or late EEF proteins are better targets of vaccines. Our results inform the prioritisation of next-generation pre-erythrocytic malaria vaccines.</p> <p>The second part of my presentation will focus on our work in endemic areas aimed at characterising natural acquired human immune responses. In a low transmission area in The Gambia, we determined whether <i>Plasmodium falciparum</i>-specific humoral memory responses, focusing on serological markers of cumulative or recent exposure, persist in individuals living in malaria elimination areas. In Ghana, we addressed the poorly characterised mechanisms enabling asymptomatic <i>P. falciparum</i> infections. Our studies have important implications for the nature and longevity of protection from malaria induced by vaccines versus natural infection.</p>
開催日時 Date and Time	令和5年8月8日(火) 17:00 ~ 18:00
開催方法 Online/Face to face	対面 : TMGH 4階 中セミナー2(404号)
備考 Notes	お問い合わせは、熱帯医学研究所 シオノギグローバル感染症連携部門・由井 (katsu@nagasaki-u.ac.jp)にお願いします。 If you have any questions, please contact Prof. Yui. (Email: katsu@nagasaki-u.ac.jp)

- 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)