

第13回
感染制御インテリジェンス・ネットワーク
寄附講座セミナー

How do Antibiotics Affect Immunity to Healthcare-Associated Fungal Infections ?

Antibiotics are recognized to modulate the immune system, potentially leading to abrogated antimicrobial immunity and/or altered host homeostasis. This occurs either through direct antibiotic effects on immune cell function, and/or through indirect systemic effects that are dysbiosis-driven. Antibiotic pre-exposure is a modifiable iatrogenic risk factor for the most common human nosocomial fungal infection, invasive candidiasis. Yet, the mechanisms underlying antibiotic-induced susceptibility to invasive fungal disease remain elusive. In this seminar, I will present our data where we have found that antibiotic pre-exposure, particularly with vancomycin, enhances susceptibility to invasive candidiasis in both mice and humans. We have found that vancomycin causes several defects in the antifungal immune response, particularly affecting GI-resident lymphocytes and macrophages. Our work adds to the growing body of evidence that antibiotics can cause immunological injuries and underscores the importance of antibiotic stewardship, which may help prevent antimicrobial resistance and protect vulnerable patients from life-threatening invasive fungal infections.



Dr. Rebecca Anne Drummond

Institute of Immunology & Immunotherapy
Institute of Microbiology & Infection,
University of Birmingham, UK

参加費無料

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