

大学院特別講義のご案内

◆日時：2025 年 7 月 8 日（火）17 時半から 19 時

◆場所：D 棟 4 階 大講義室

◆講師：YANG FAN-PEI

(Professor, Artificial Intelligence Center , National Tsing Hua University
Founding director, Center for Cognition and Mind Sciences, National Tsing Hua University)

◆演題："Artificial Intelligence in Oral Cancer: Current Applications and Advances"

◆要旨：

Artificial intelligence (AI) is rapidly reshaping the landscape of oral cancer detection, diagnosis, and management. This talk will explore the latest advancements in AI-driven technologies and their transformative impact on oral oncology. We will discuss how deep learning models, particularly convolutional neural networks (CNNs), are achieving high sensitivity and specificity in the analysis of medical images and biomarker data, enabling earlier and more accurate detection of oral cancer. The integration of AI with innovative tools such as electronic tongue (e-tongue) technology and optical coherence tomography (OCT) is further enhancing diagnostic precision, while predictive analytics are supporting personalized treatment and risk stratification. Despite these promising developments, challenges remain in clinical validation, workflow integration, and data privacy. This presentation will provide an overview of current AI applications in oral cancer, highlight their clinical benefits, and address the obstacles and future directions for implementing AI in routine practice. Attendees will gain insights into how AI can improve patient outcomes and revolutionize oral cancer care.

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