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강연제목: Endoscopic approach in cancer research (암 연구에서의 내시경적 접근)

Abstract:

Endoscopic modalities have emerged as pivotal tools in cancer diagnostics and therapeutics, fundamentally transforming the landscape of oncology. Our research endeavors are centered on the development of novel endoscopic platforms and clinically relevant tumor models to enhance cancer visualization and therapeutic interventions. Through interdisciplinary collaborations, we aim to harness these advanced technologies to improve cancer detection accuracy and treatment efficacy.

In recent years, our investigations have focused on endoscopic molecular imaging and therapy utilizing a custom-engineered endoscopic system. Our research team has successfully developed a dual-scale fluorescence endoscopic platform and orthotopic tumor models, enabling precise therapeutic monitoring studies. Currently, we are exploring tissue-specific imaging capabilities through the integration of hyperspectral technology into our endoscopic system.

This presentation will elucidate key achievements attained with our proprietary endoscopic system and associated tumor models. As this technology continues to evolve, it holds significant potential to revolutionize clinical medicine and foster future collaborative research endeavors across multiple disciplines.

Brief Biosketch

Dr. Su Woong Yoo is an Associate Professor in the Department of Nuclear Medicine at Chonnam National University Medical School and Hwasun Hospital, Korea. Dr. Yoo's research focuses on developing innovative endoscopic systems and applicable tumor models to enhance cancer imaging and therapeutic interventions. Dr. Yoo is actively involved in professional societies, serving as a council member of the Korean Society of Nuclear Medicine since 2020. He is also a regular member of the Korean Society for Molecular Imaging and the Optical Society of Korea.