

# 2025 年度 第 57 回 大学院セミナー

2025 年 11 月 4 日

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| 分 野 名<br>(責任者名)(内線) | 災害復興科学分野<br>責任者名( 高村 昇 ) 内線( 7170 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 演 題                 | Radiation Emergency Preparedness and Nuclear Medicine in Neuroscience: Perspectives from Tri-Service General Hospital (TSGH), Taiwan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 講 師 等               | 長崎大学客員研究員<br>邱 創新 先生                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 概要                  | <p>Tri-Service General Hospital (TSGH), as Taiwan's tertiary nuclear emergency medical center, has established a comprehensive framework integrating radiation protection, medical preparedness, and national coordination under the Ministry of Health and Welfare. Our hospital plays a pivotal role in strengthening national resilience against nuclear or radiological incidents through systematic training, biodosimetry capability, decontamination procedures, and inter-hospital collaboration. The first section of this lecture will introduce TSGH's contributions to radiation emergency medical response, highlighting its operational experience and the essential role of nuclear medicine professionals in both clinical and public health contexts.</p> <p>Molecular neuroimaging has become a cornerstone of translational neuroscience, enabling in vivo exploration of the mechanisms underlying neurodegenerative and psychiatric disorders. The second section of this lecture will focus on advances in molecular imaging biomarkers—including dopaminergic, serotonergic, and neuroinflammatory tracers—offer valuable insights into neuronal function, synaptic integrity, and neuroinflammation coupling with multimodal imaging platforms such as SPECT/CT, PET/CT, and PET/MR, to visualize the interplay between biochemical, and behavioral processes in the brain. These approaches not only deepen our understanding of disease mechanisms but also facilitate early diagnosis and the development of novel therapeutic strategies for degenerative disease.</p> <p>To sum up, this presentation will address two key aspects of TSGH's work: strengthening Taiwan's radiation emergency medical system through clinical and operational experience, and advancing molecular imaging research in neuroscience, reflecting the diverse roles and contributions of nuclear medicine in both fields.</p> |
| 開 催 日 時             | 2025 年 12 月 12 日 (金)<br>17 : 00 ~ 18 : 00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 場 所                 | 原子力災害対策本部 2 階セミナー室<br>(オンラインでの参加を希望される方は、<br><a href="mailto:takamura@nagasaki-u.ac.jp">takamura@nagasaki-u.ac.jp</a> までご連絡ください)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 備 考                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

- ☐ 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  
☒ 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  
☒ オンライン(Online)