

# 令和6年度 第29回 大学院セミナー

令和6年 7月 24日

分野名 Area of Research (責任者名)(内線)	放射線医療科学専攻 幹細胞生物学 分野 責任者名( 李 桃生 ) 内線( 7099 )
演題 Title	ATRによる複製ストレス応答とオートファジーの制御 (ATR orchestrates the replication stress response and autophagy)
講師等 Presenter	原研幹細胞 川端 剛 (Kawabata Tsuyoshi)
概要 Abstract	ATR is a master regulator of the replication stress response and plays an inevitable role in the maintenance of genomic information by phosphorylation of a wide variety of downstream proteins. Recent studies have shown that ATR and other PIKK family of kinases are involved not only in DNA damage response but also in autophagy, an intracellular degradation system, to ensure cellular homeostasis during changing conditions. However, it remains unclear whether ATR is a bona fide regulator of autophagy, and how ATR regulates autophagy. In this study, we showed that ATR is required for starvation-induced and replication-induced autophagy. We conducted a phospho-proteomic analysis and identified potential ATR substrates that are required for the induction of autophagy. Our results highlight the role of ATR in orchestrating the replication-stress response and autophagy for cytoprotective cellular homeostasis and prevention of genomic instability.
開催日時 Date and Time	令和6年7月24日(水) 17:30 ~ 18:30
開催方法 Online/Face to face	Zoom
備考 Notes	受講を希望者は、ID・パスワードをお教えしますので、ご連絡ください。 (内線 7099 or Email: <a href="mailto:litaoshe@nagasaki-u.ac.jp">litaoshe@nagasaki-u.ac.jp</a> ) If you would like to participate in this seminar and need Zoom ID and Password, please contact: <a href="mailto:litaoshe@nagasaki-u.ac.jp">litaoshe@nagasaki-u.ac.jp</a> .

- 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)