

微生物病研究所・部員会共催ブリッジセミナー

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# BRIDGE

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2018.11.16.FRI

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Start 16:30 谷口記念講堂

西増 弘志 先生  
東京大学 大学院理学系研究科  
生物科学専攻・助教

Dr. Hiroshi Nishimasu Ph.D  
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微生物のもつおどろきの酵素 - RNA依存性  
ヌクレアーゼ Cas9 と二機能性酵素FBPAP  
Amazing microbial enzymes - RNA-guided genome editor  
nuclease Cas9 and bifunctional morphing enzyme FBPAP

## 参考文献

Nishimasu et al. Engineered CRISPR-Cas9 nuclease with expanded targeting space. Science in press (2018); Nishimasu et al. Crystal structure of Staphylococcus aureus Cas9. Cell 162, 1113-1126 (2015); Nishimasu et al. Crystal structure of Cas9 in complex with guide RNA and target DNA. Cell 156, 935-949 (2014); Fushinobu & Nishimasu et al. Structural basis for the bifunctionality of fructose-1,6-bisphosphate aldolase/phosphatase. Nature 478, 538-541 (2011)