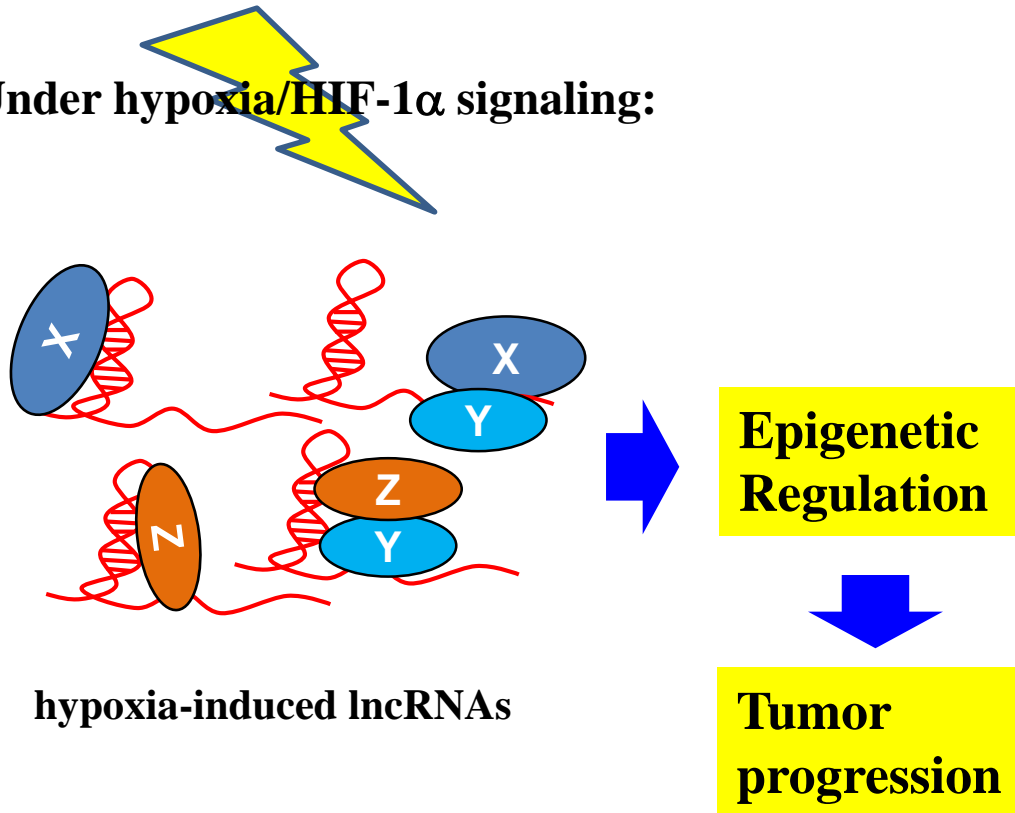


# The role and mechanism of long noncoding RNAs (lncRNAs) in hypoxia-induced tumor progression

探討腫瘤缺氧誘發之長鏈非編碼RNA (long noncoding RNAs, lncRNAs) 於腫瘤生成所扮演的角色及其表觀遺傳學之調控機制

Under hypoxia/HIF-1 $\alpha$  signaling:



1. To evaluate the biological functions of hypoxia-induced lncRNAs both *in vitro* and *in vivo*

(*In vitro*: e.g., angiogenesis, cancer stem cell and metabolic, etc.)  
(*In vivo*: e.g., animal model and clinical relevance)

2. To investigate the role of hypoxia-induced lncRNAs in epigenetic regulation of hypoxia-induced tumor progression