

分子細胞生物学グループ(入江研)

Laboratory of Molecular Cell Biology: Prof. Kenji Irie (kirie@md.tsukuba.ac.jp)

Come and visit us!

Medical Science Bldg. 4F
Room 205 (Tel # 3066)

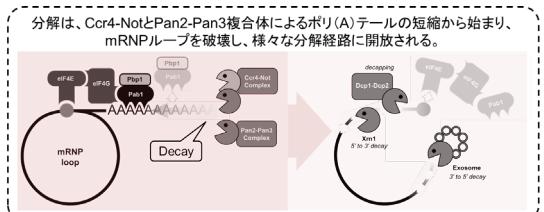
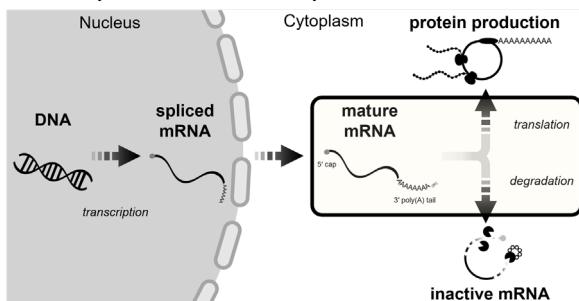


入江研では出芽酵母をモデル系として三種類のプロジェクトを展開しています

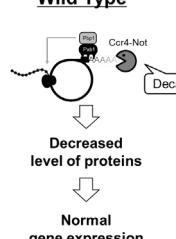
遺伝子発現の転写後制御

Post-transcriptional Regulation of Gene Expression

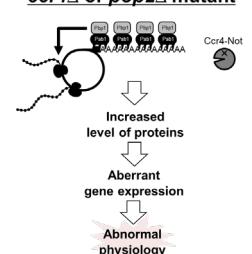
The fate of **mature mRNA** regulates gene expression. Several factors may influence mRNA stability and its active translation.



Wild Type



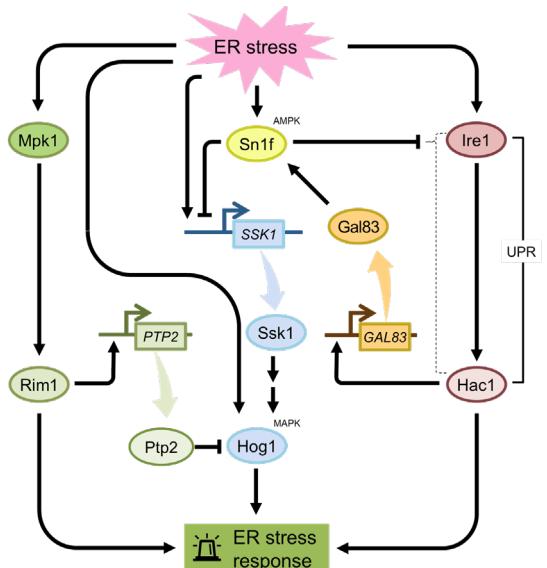
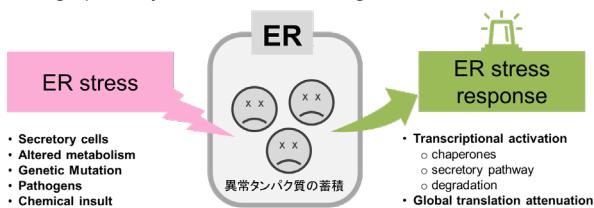
ccr4Δ or *pop2Δ* mutant



小胞体ストレス応答を制御するシグナル伝達機構

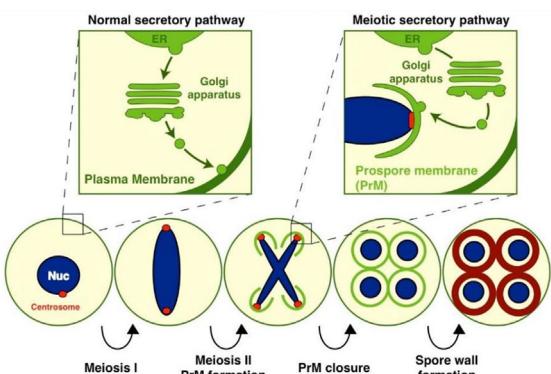
Signaling Pathway Regulating ER Stress Response

Endoplasmic reticulum (ER) is the site for protein synthesis and folding, lipid biosynthesis, and Ca^{2+} storage.



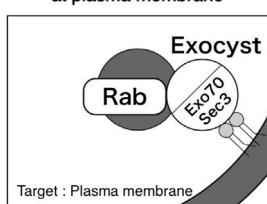
小胞結合による膜形成

Prospore Membrane Formation by Vesicle Docking

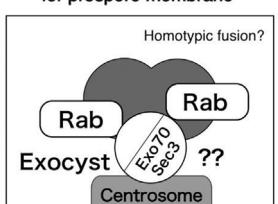


Sporulation is when daughter cells are formed within the cytoplasm of the mother cell. It involves the **de novo membrane formation**.

at plasma membrane



for prospore membrane



De novo membrane formation via homotypic fusion