

Protein Synthesis in Eukaryotic Cells in the Translational Initiation Phase

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Abstract

A crucial factor in controlling protein synthesis in eukaryotic cells is the eukaryotic Initiation Factor 2, which is associated with the translational initiation phase. As ocean urchin eggs are fertilised, protein synthesis activity quickly increases, which is crucial for the formation of embryonic mobileular cycles. Here, we show that fertilisation causes eIF2 to dephosphorylate, which is accompanied by an increase in protein synthesis, and that eIF2 phosphorylation is specifically linked to an inhibition of protein synthesis and the arrest of the cell cycle. We verified that dephosphorylation of eIF2 is necessary for protein synthesis hobby and mobileular department development after fertilisation by microinjecting a phospho-mimetic protein into sea urchin eggs.

Keywords:

Introduction



Conclusion



Conflict of Interest

Acknowledgement

References

1. Bhattacharya D, Bhattacharya H, Thamizhmani R, Sayi DS, Reesu R, et al. (2014) Shigellosis in Bay of Bengal Islands, India: Clinical and seasonal patterns, surveillance of antibiotic susceptibility patterns, and molecular characterization of multidrug-resistant Shigella strains isolated during a 6-year period from 2006 to 2011. *Eur J Clin Microbiol Infect Dis*; 33: 157-170.
2. Bachand N, Ravel A, Onanga R, Arsenault J, Gonzalez JP (2012) Public health