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Nakato, R. et al.

Regulation of the
unfolded protein
response via S-
nitrosylation of sensors
of endoplasmic
reticulum stress. Sci.
Rep. 5, 14812 (2015).

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**regulation and
functions of the
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The unfolded protein response (UPR) is a highly conserved cellular response that is initiated when the rate of protein production exceeds the ability of the cellular machinery to modify and correctly fold nascent proteins.

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The UPR is a stress response that prevents accumulation of unfolded proteins in the ER lumen. Unfolded proteins in the ER are detected by transmembrane ER stress sensors^{11,12}. The three major ER stress-sensing proteins are PKR-like ER kinase (PERK), inositol-

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requiring enzyme 1 (IRE1), and activating transcription factor 6 (ATF6)^{13,14,15}.

Regulation of the unfolded protein response via S ...

The UPR is a stress response that prevents accumulation of unfolded proteins in the ER lumen. Unfolded proteins in the ER are detected by transmembrane ER stress sensors ^{11, 12}.

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**Regulation of the
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response via S ...**

To safeguard this process in the face of environmental threats and internal stressors, cells mount an evolutionarily conserved response known as the unfolded protein response (UPR). Invading pathogens induce cellular stress that impacts protein

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folding, thus the UPR is well situated to sense danger and contribute to immune responses.

Regulation of Cytokine Production by the Unfolded Protein ...

stress is triggered and the unfolded protein response (UPR) is activated to primarily attenuate protein translation, resolve the presence of misfolded/unfolded

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proteins, and induce production of chaperone proteins (44). If the stress cannot be resolved, the UPR signaling outputs will result in the activation of cell.

Regulation of the unfolded protein response by noncoding RNA

XBP1 is a key regulator of unfolded protein response (UPR) or endoplasmic reticulum (ER) stress response in

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the mammalian cell .

Response System

ER-resident signal
transducers IRE1a

(inositol-requiring
kinase1) cleaves XBP1

mRNA induced by ATF6
to generate a mature

mRNA encoding a
highly active

transcription factor

spliced XBP1 (XBP1s) [2].

**MicroRNA regulation
of unfolded protein
response ...**

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Lipid-dependent regulation of the unfolded protein response. Protein folding homeostasis in the lumen of the endoplasmic reticulum is defended by signal transduction pathways that are activated by an imbalance between unfolded proteins and chaperones (so called ER stress). Collectively referred to as the unfolded protein response (UPR) this

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Coding RNA

homeostatic response is initiated by three known ER stress transducers: IRE1, PERK and ATF6.

Lipid-dependent regulation of the unfolded protein ...

The unfolded protein response (UPR) is a cellular stress response related to the endoplasmic reticulum (ER) stress. It has been found to be conserved between all

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mammalian species, as well as yeast and worm organisms. The UPR is activated in response to an accumulation of unfolded or misfolded proteins in the lumen of the endoplasmic reticulum.

Unfolded protein response - Wikipedia

However, exceeding the capacity of protein folding and degradation results in an accumulation of

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un-/mis-folded

proteins. Sensing such

abnormal proteins is

mainly governed by

one of the HSP70

family members,

glucose-regulated

protein 78 (GRP78) [

19].

**Regulation of
unfolded protein
response in
hematopoietic ...**

In the unfolded protein

response (UPR), Ire1

activates Hac1 to

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coding RNA
coordinate the transcription of hundreds of genes to mitigate ER stress.

Recent work in

Caenorhabditis elegans

suggests that oxidative

stress inhibits this

canonical Ire1

signalling pathway,

activating instead an

antioxidant stress

response.

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response in yeast by

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When protein secretion demand exceeds the protein folding capacity of the ER, the unfolded protein response (UPR) is triggered as a consequence of ER stress. Due to the secretory function of epithelial cells, UPR plays an important role in maintaining epithelial barrier function at mucosal sites.

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the ...

Malformed proteins in the endoplasmic reticulum (ER) inhibit translation initiation.

This response is believed to be mediated by increased phosphorylation of eukaryotic initiation factor 2α (eIF2 α) and is hypothesized to reduce the work load imposed on the folding

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machinery during

stress.

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Perk Is Essential for Translational Regulation and Cell

...

Bidirectional regulation of NF- κ B by reactive oxygen species: a role of unfolded protein response Nuclear factor- κ B (NF- κ B) is a transcription factor that plays a crucial role in coordinating innate and adaptive

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immunity, Inflammation, and Non

apoptotic cell death.

Bidirectional regulation of NF- κ B by reactive oxygen ...

...

To ascertain fidelity in protein folding, cells regulate the protein-folding capacity in the ER according to need. The ER responds to the burden of unfolded proteins in its lumen (ER stress) by

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activating intracellular signal transduction pathways, collectively termed the unfolded protein response (UPR).

The Unfolded Protein Response: From Stress Pathway to ...

Here we investigated whether the unfolded protein response (UPR) under endoplasmic reticulum (ER) stress regulates expression of Actn3 and its isoform

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Actn2 in mouse C2C12 myotubes. Among UPR-related transcription factors, XBP1

upregulated Actn2, whereas XBP1, ATF4 and ATF6

downregulated Actn3 promoter activity.

Differential regulation of Actn2 and Actn3 expression ...

Herein, we monitored the unfolded protein (UPR) and heat shock

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response (HSR), two major proteostasis regulatory pathways, in human post-mortem tissue derived from the motor cortex of sporadic ALS (SALS) and compared them to those occurring in spinal cord.

Tissue-selective regulation of protein homeostasis and ...

Regulation of unfolded protein response modulator XBP1s by

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acetylation and

deacetylation. Wang

F.M., Chen Y.J., Ouyang

H.J. XBP1 (X-box-

binding protein 1) is a

key modulator of the

UPR (unfolded protein

response), which is

involved in a wide

range of pathological

and physiological

processes.

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