Hacker Evolution Torrent

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The selective regulatory mechanisms controlling IRE1β expression, which is apparently stimulated by ATF6α signaling \[[@B56]\], remain to be elucidated. Concluding remarks ========== Molecular aspects of vertebrate UPR remain an area of active investigation. Progress in the field of vertebrate UPR has been largely aided by the availability of models organisms, in particular zebrafish and Xenopus. The availability of a large number of tools, including morpholino antisense oligonucleotides, antibodies and GFP transgenic lines has enabled the generation of specific knockdown and overexpression models that can be used to determine the functional importance of genes and their role in development. Using these models it is clear that UPR components are essential for embryonic development and survival. As vertebrate UPR is a key component of many fundamental biological processes, developmentally regulated changes in UPR function must be tightly controlled. Specific signaling pathways, such as the estrogen receptor pathway \[[@B77]\], \[[@B78]\] and the NF-κB pathway \[[@B76]\], \[[@B79]\] have been implicated in regulating UPR induction during embryonic development. An additional avenue of study would be to examine the role of the UPR during vertebrate development and vertebrate evolution. For example, the study of UPR in lower vertebrates would provide insights into conservation in signaling pathways in the vertebrate lineage. The identification of key signaling pathways during vertebrate development will provide novel molecular targets for the development of drugs that can be used to treat diseases associated with the nervous system. Abbreviations ========== ATF6: Activating transcription factor 6; ATF6: Activating transcription factor 6; BiP: Binding immunoglobulin protein; ATF6: Activating transcription factor 6; BiP: Binding immunoglobulin protein; chaperone: Protein that stabilizes other proteins in the ER by binding to hydrophobic regions on them and allows them to fold correctly; CIP: Cytoplasmic IRE1-inositol-requiring enzyme; CHOP: CCAAT/enhancer-binding protein (C/EBP) homologous protein; ER: Endoplasmic reticulum; ERAD: ER associated degradation; ERO1: Endoplasmic reticulum oxidoreductase 1; FMRP: Frag 82157476af