

LEC 44

1. Final: Th, 5/13, 2 pm. Here
CPE 2.220
2. WEB site has been updated
w material for lec 43 & 44

Global Regulation

Small RNAs

Heat Shock Regulation

Ribosome syn. regulation
proteins
RNA

RyhB: antisense RNA (90 nt)
that down regulates iron-storage proteins
& non-essential iron-containing proteins
when iron is limiting

Fur - a repressor for iron-
regulated genes.

fur: most iron-regulated genes
expressed constitutively,

~ 6 genes cease being
expressed

Explain for positive regulation by
Fur:

FeFur blocks synthesis of
RyhB

ASIDE: E. coli has approx. 50
non-coding small RNAs such
as RyhB.

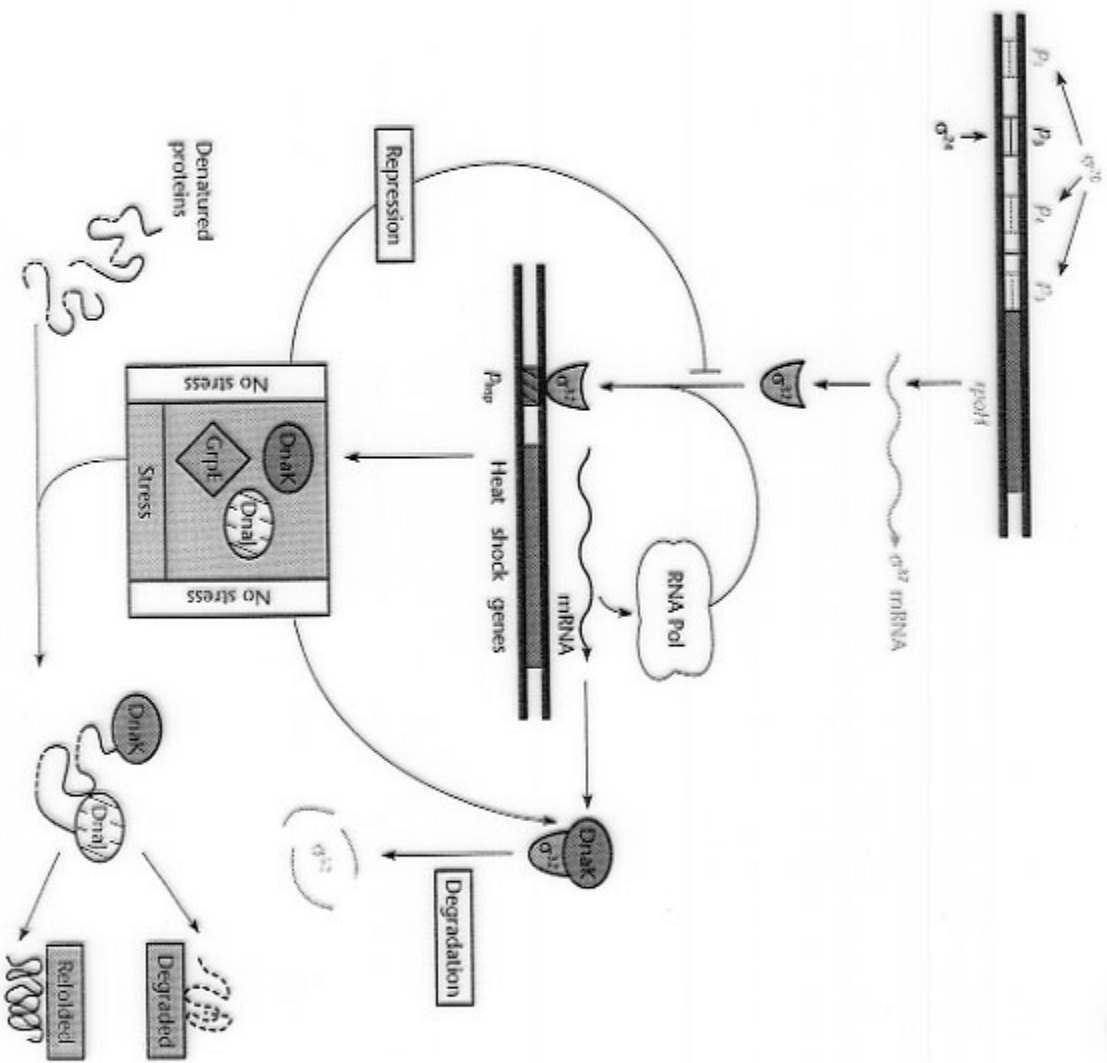


Figure 13.15



Figure 13.16





Figure 13.17

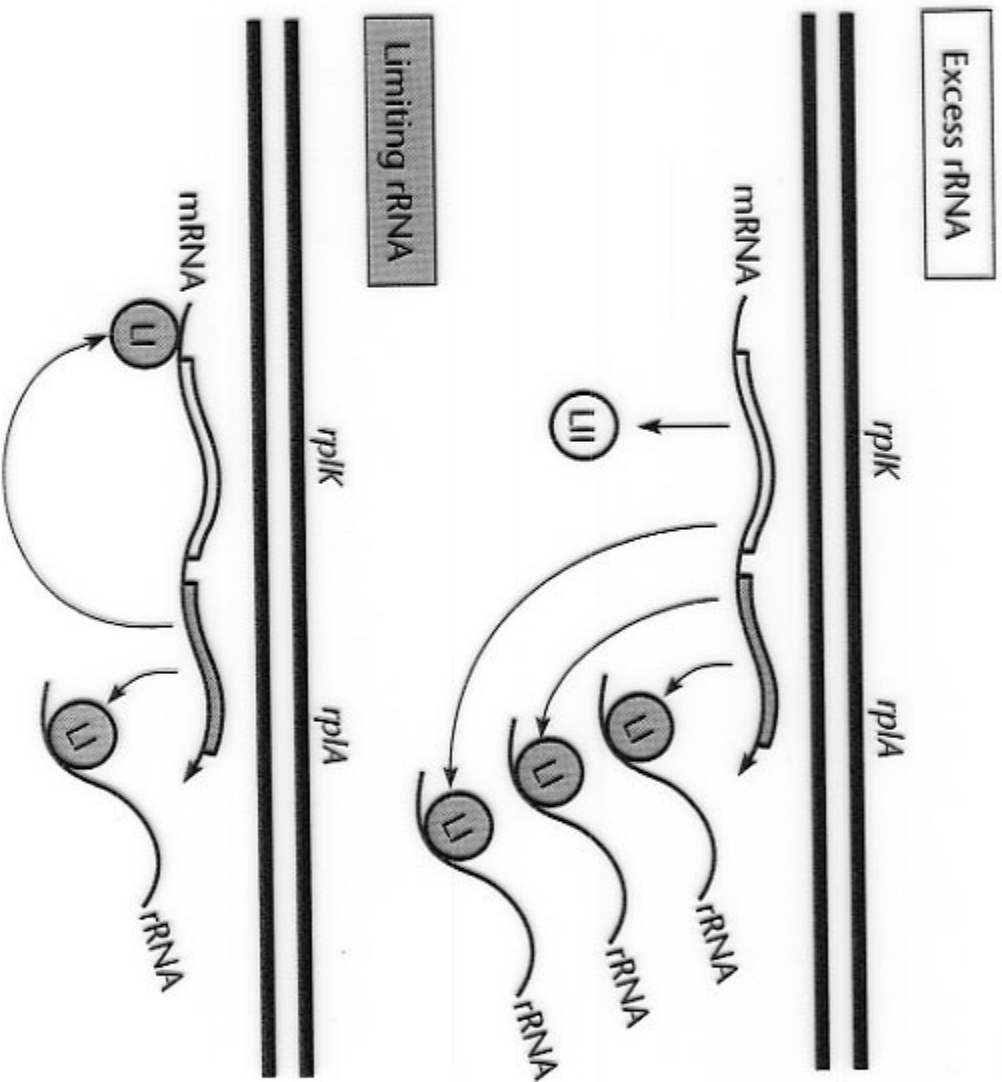


Figure 13.19

