

## RNA-MEDIATED GENE REGULATION



Ribonucleic acid (RNA) plays an important role in gene regulation. This course will explore recent primary literature studying the biochemistry of these processes.

## TOPICS

1. RNA interference in plants and animals
2. CRISPR bacterial antiviral defense
3. Transcriptional and translational regulation - riboswitches, tmRNA, IRES elements, 6S RNA, etc.
4. Post-transcriptional processing - editing, capping and splicing. Naturally occurring ribozymes.

## INSTRUCTOR

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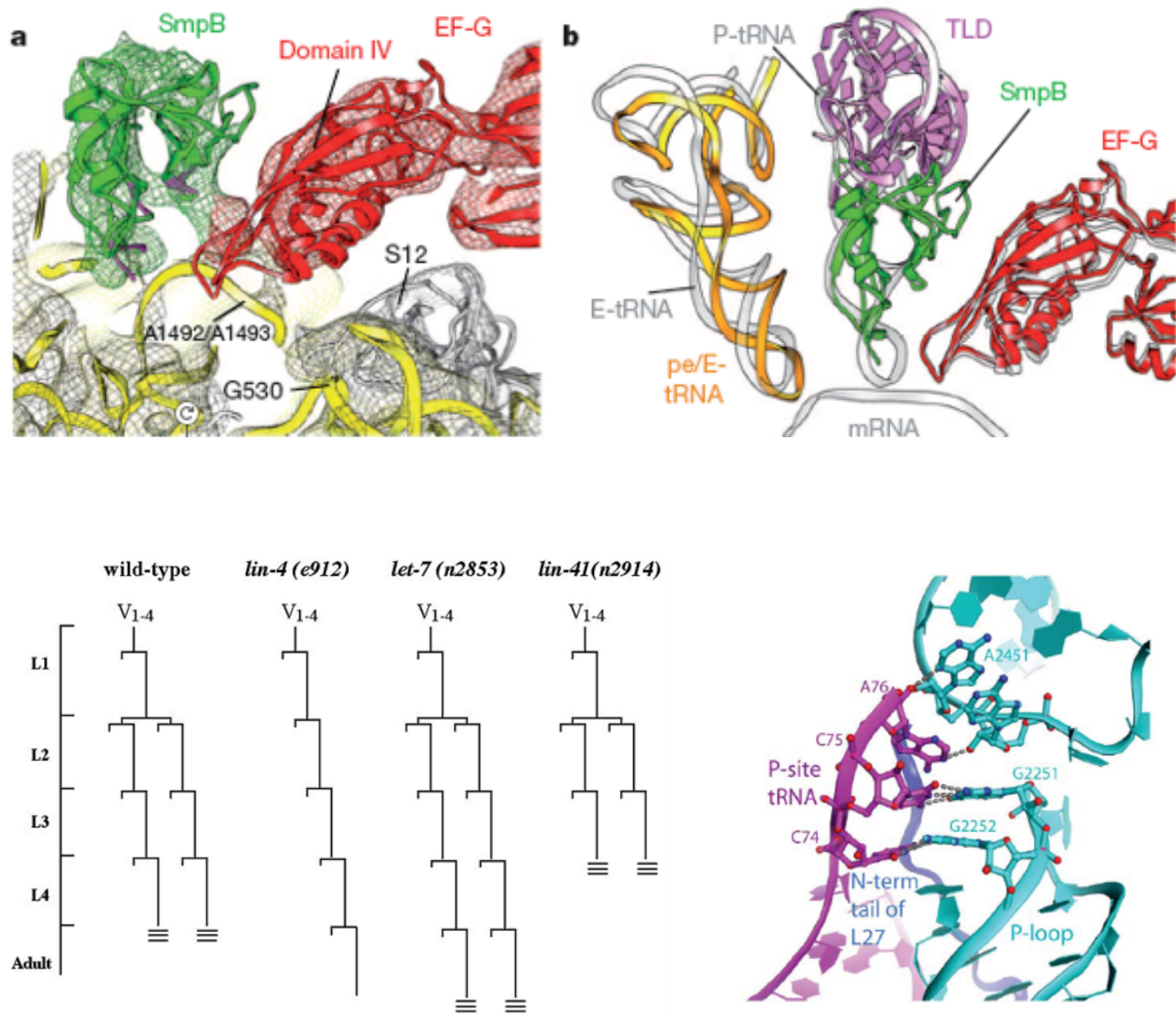
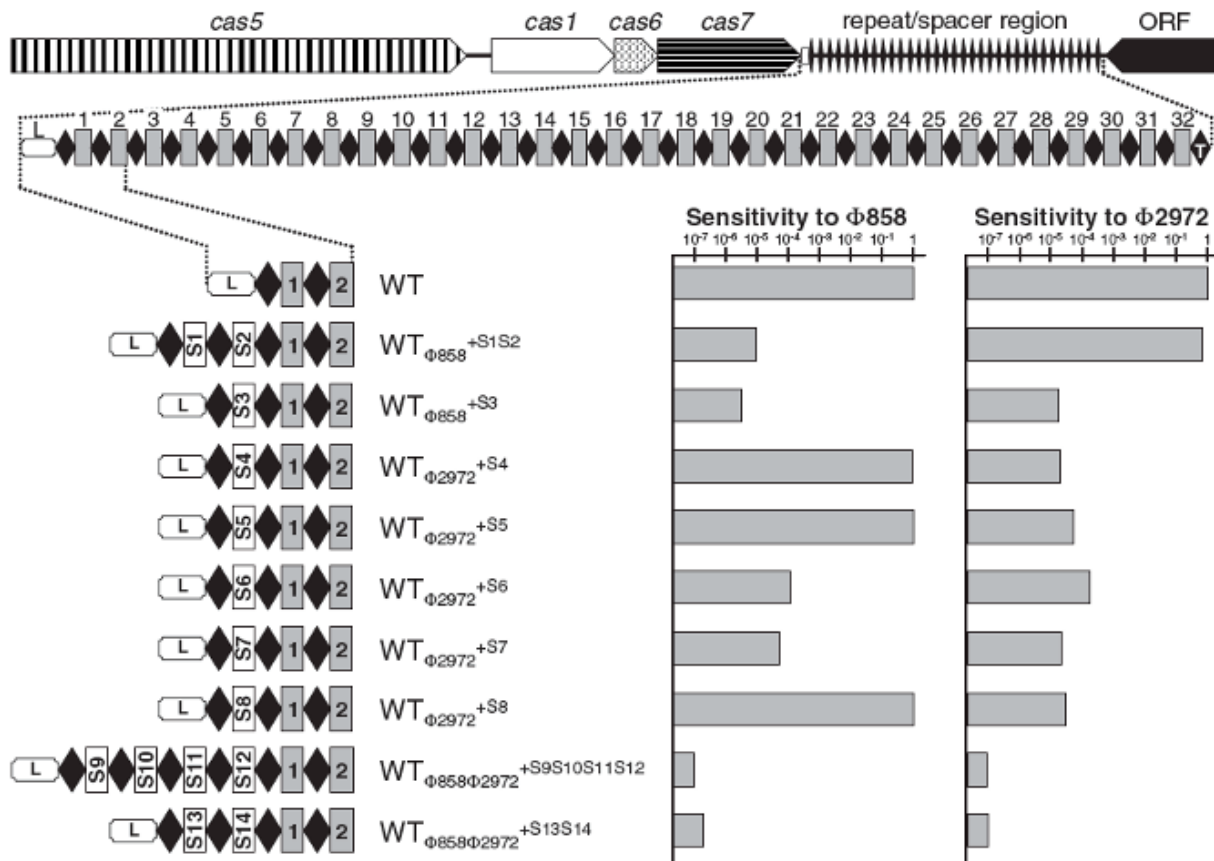


Figure 1. Lineage defects in the seam cells associated with *lin-4*, *let-7* and *lin-41* lf mutants. Seam cell terminal differentiation is represented by 3 horizontal bars.

Vella et al., 2005



## FMN riboswitch (general mechanism)

