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“Post-transcriptional gene regulation in the *Drosophila* oocyte and embryo”

(Faculty Host: Dr. Jim Uniacke)



Wed. Feb. 1st, 2017
SSC 2315 @ 10:30 am

Prior to cellularization at the blastoderm stage, developmental processes are largely driven in *Drosophila* by spatially-restricted translational control of specific mRNAs. Many mechanisms contribute to such translational control, including RNA localization and regulation of recruitment of translation factors, or of poly(A) polymerases or deadenylases, by RNA binding proteins that bind specific mRNAs.

I will review some examples from published work from my group that helped elucidate some of these mechanisms. As well, I will present work not yet published that is providing evidence for the existence of additional mechanisms underlying post-transcriptional gene regulation. This will include work on RpS5b, a variant ribosomal protein that is specifically required for oogenesis, and on Makorin-1, one of a set of four proteins highly conserved as a group throughout animal evolution, whose particular role has largely remained elusive.

**“A GREAT OPPORTUNITY TO HEAR LEADING RESEARCHERS IN THE SCIENTIFIC
COMMUNITY DISCUSS THEIR WORK”**

*** ALL WELCOME TO ATTEND ***

*** COFFEE, TEA AND TIMBITS ***