

Adenosine signaling.

Michal Žurovec/Yu-Hsien Lin

Adenosine (Ado) is an ubiquitous metabolite, which plays a prominent role as a paracrine signal of metabolic imbalance within tissues. While adenosine signaling seems to be conserved among phyla, *Drosophila* and higher Diptera seem to have more genes involved in adenosine signaling than other insects. New reverse genetic tools allow examining the conservation of physiological functions by using targeted genome editing across species.