

Adenosine Deaminases Acting on RNA (ADARs) and A-to-I editing

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Abstrak

The objective of this CTMI volume is to provide readers with a foundation for understanding what ADARs are and how they act to affect gene expression and function. It is becoming increasingly apparent that ADARs may possess roles not only as enzymes that deaminate adenosine to produce inosine in RNA substrates with double-stranded character, but also as proteins independent of their catalytic property. Because A-to-I editing may affect base-pairing and RNA structure, processes including translation, splicing, RNA replication, and miR and siRNA.