



miRNA Regulation of the Translational Machinery

By Robert Rhoads

Springer Nov 2009, 2009. Buch. Book Condition: Neu. 235x155x14 mm. This item is printed on demand - Print on Demand Neuware - An odd and unexpected finding was reported by the laboratory of Richard Jorgensen in 1990: expression of extra copies of the gene encoding chalcone synthase in petunias turned off the endogenous chalcone synthase gene. An observation that appeared totally unrelated was made by the laboratory of Victor Ambrose in 1993: a gene in *Caenorhabditis elegans*, *lin-4*, controlled the timing of larval development but did not encode a protein. Rather, it expressed two small RNAs that were complementary to the 3'-untranslated region of the *lin-14* gene in a region that had previously been shown to repress expression of the LIN-14 protein. From another quarter, David Baulcombe's laboratory showed in 1997 that plant viruses could induce sequence-specific gene silencing. Then in a landmark paper, Andrew Fire and Craig Mello showed in 1998 that double-stranded RNA (dsRNA) triggers a gene-silencing mechanism that they dubbed RNA interference (RNAi), for which discovery they were awarded the Nobel Prize in Physiology or Medicine in 2006. These diverse findings have triggered an explosion of research around the world in both plants and...



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