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RNA interference pathways in the moss Physcomitrella patens

By Basel Khraiweh

LAP Lambert Acad. Publ. Apr 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x8 mm. This item is printed on demand - Print on Demand Neuware - RNA interference (RNAi) is a mechanism regulating gene transcript levels by either transcriptional gene silencing (TGS) or by posttranscriptional gene silencing (PTGS), which acts in genome maintenance and the regulation of development. This book show the role of Dicer proteins in the moss Physcomitrella patens, which has four Dicers (DICER-LIKE 1a (DCL1a), DCL1b, DCL3 and DCL4). The Physcomitrella patens was chosen because the dual functions of Dicers in miRNA biogenesis and target cleavage are separable in this species. Using targeted knockout-mutants of Physcomitrella patens, it was shown that DCL1a is required for miRNA biogenesis and DCL1b is required for miRNA-induced target RNA cleavage. Based on these data from Physcomitrella patens a model is proposed for the gene-specific control of transcription factors upon dysfunctions of the RNAi machinery. Similar control mechanisms could be exist in other eukaryotes as well. Also this book provide evidence that artificial miRNAs (amiRNAs) can be used as an alternative tool for studying gene functions in Physcomitrella patens. 128 pp. Englisch.



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Reviews

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