



**Figure 1. Sources of dsRNA, Which Act as a Substrate for Generation of siRNAs by the Dicer Ribonuclease, and Are the Trigger for RNA Silencing**

(a) Bidirectional transcription has been observed at the *S. pombe* centromeric repeats and the *cenH* region of the silent mating-type locus. (b) Transcription through inverted repeats found in many plant and animal cells can potentially produce dsRNA. (c) Transcription of aberrant RNAs that may lack proper processing signals may trigger dsRNA synthesis by RdRPs.