

siRNA history 1

A Species of Small Antisense RNA in Posttranscriptional Gene Silencing in Plants.

Andrew J. Hamilton and David C. Baulcombe*

(1999) Science, 286, 950-952

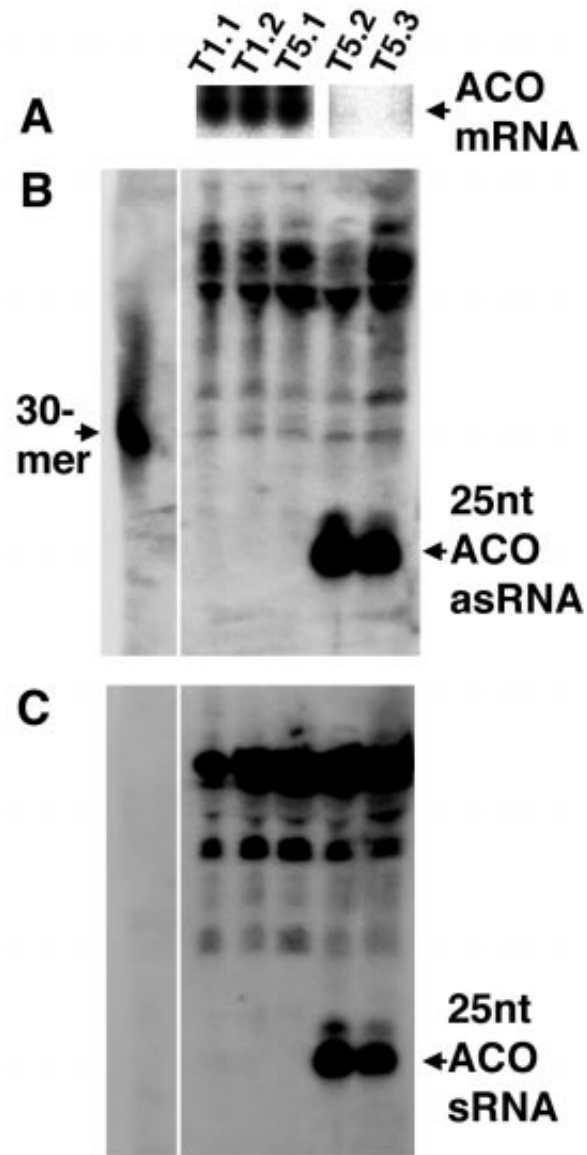


Figure 1

Twenty-five-nucleotide ACO antisense and sense RNA in PTGS lines.

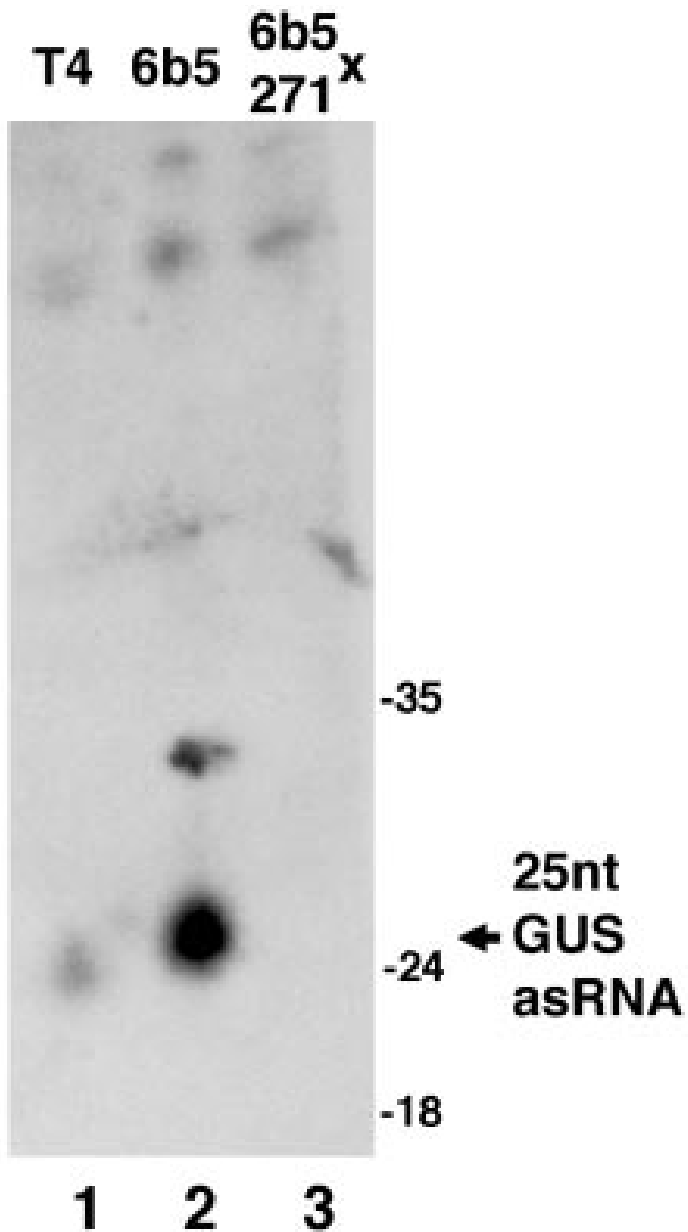


Figure 2

Twenty-five-nucleotide antisense GUS RNA is dependent on transcription from the 35S promoter.

Figure 3

Twenty-five-nucleotide antisense GFP RNA in systemically silenced tissue.

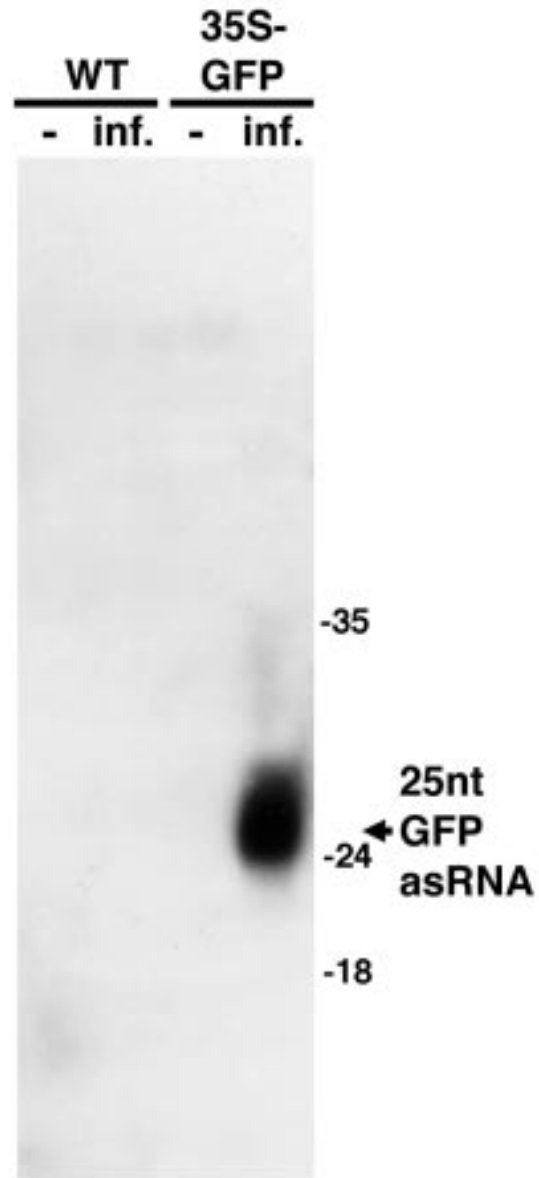
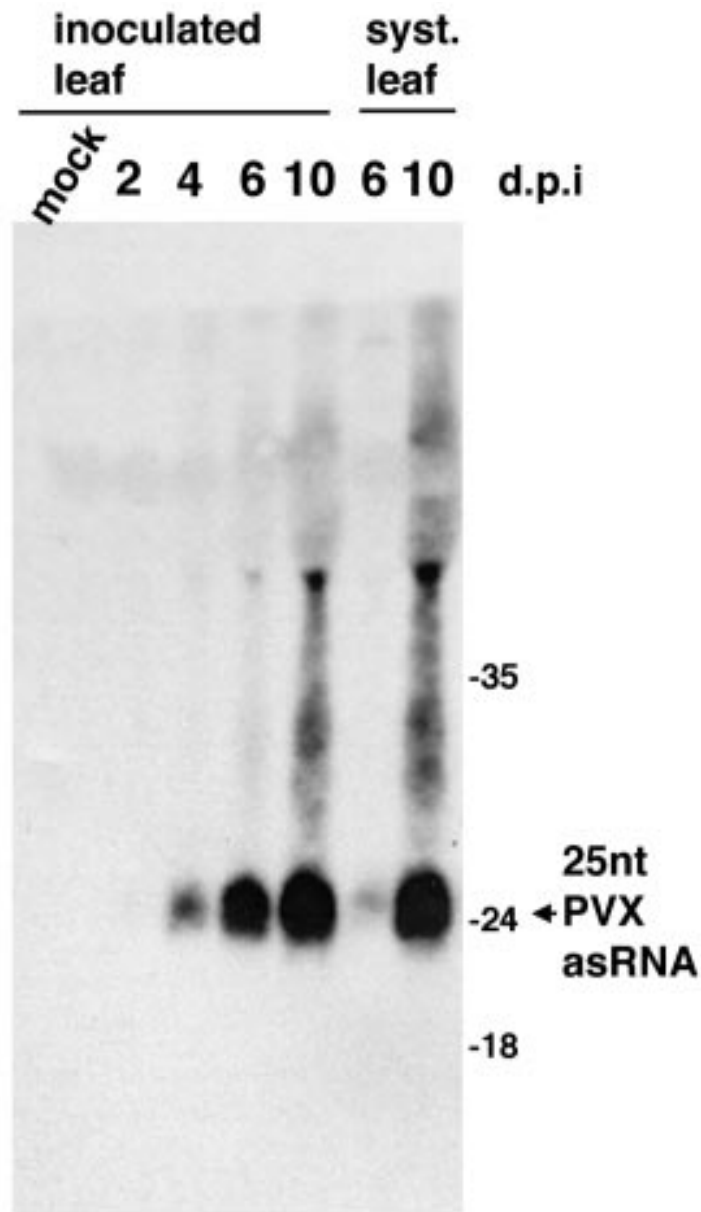


Figure 4

Twenty-five-nucleotide antisense PVX RNA accumulates during virus replication.



- **Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells.**
- [Elbashir SM](#), [Harborth J](#), [Lendeckel W](#), [Yalcin A](#), [Weber K](#), [Tuschl T](#).
- [Nature](#). 2001 May 24;411(6836):494-8.

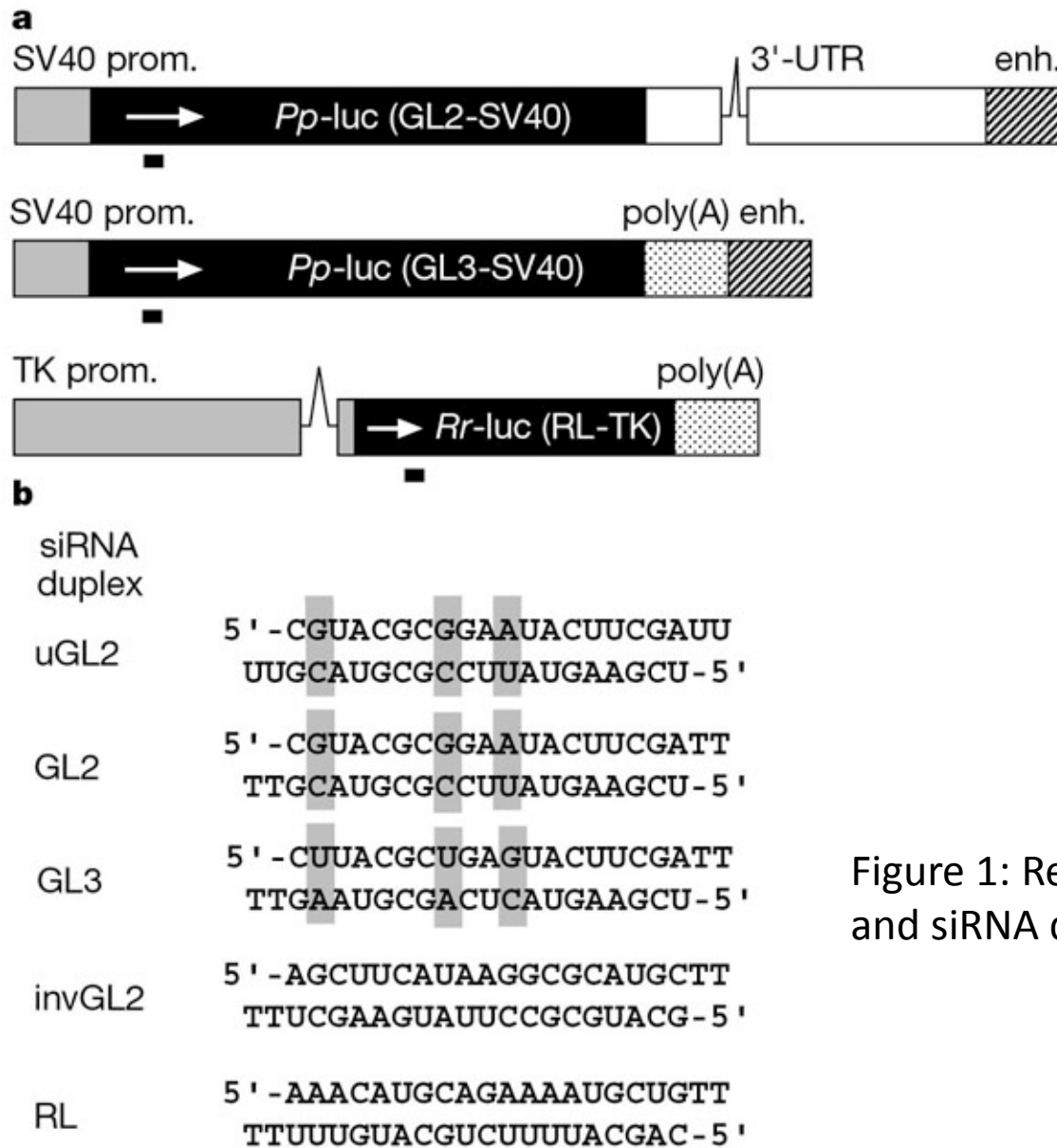


Figure 1: Reporter constructs and siRNA duplexes.

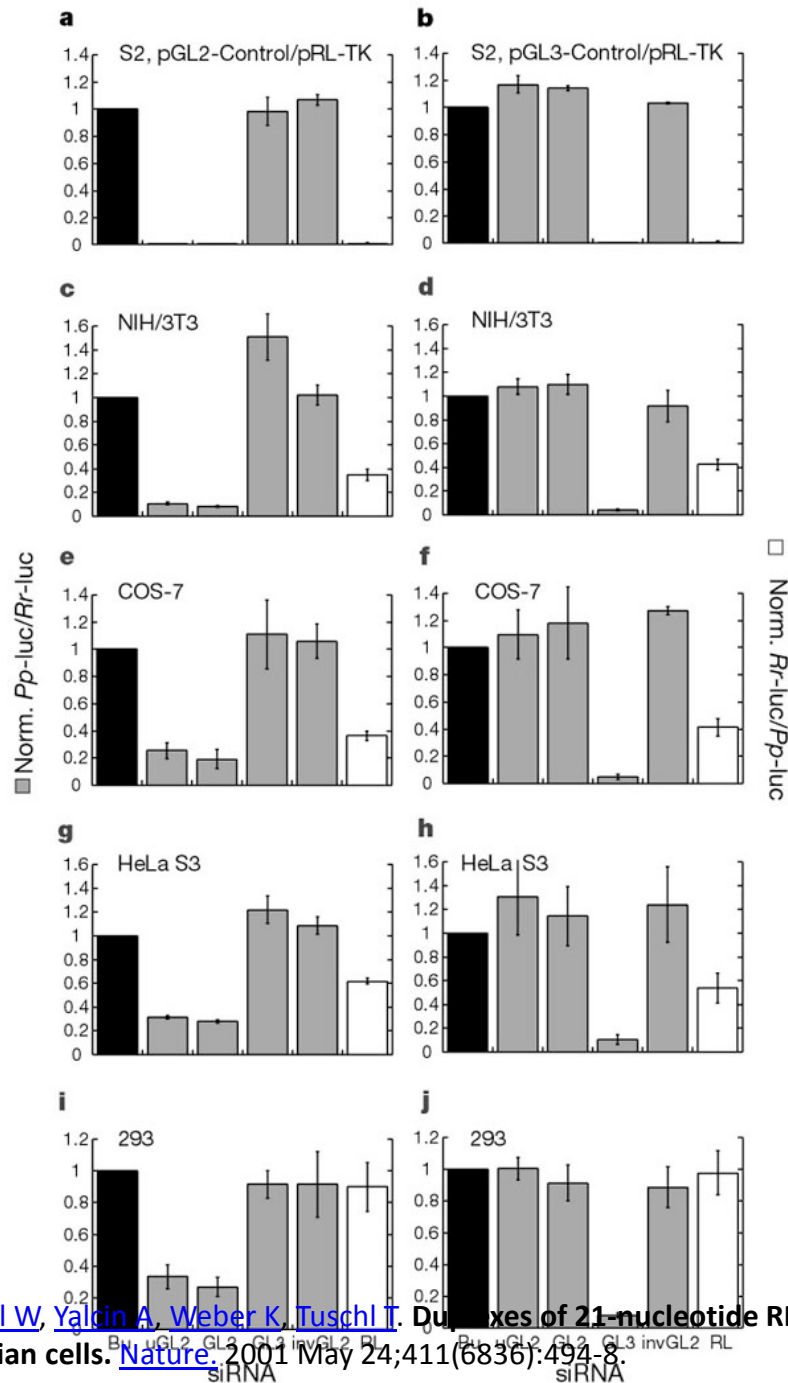


Figure 2: RNA interference by siRNA duplexes.

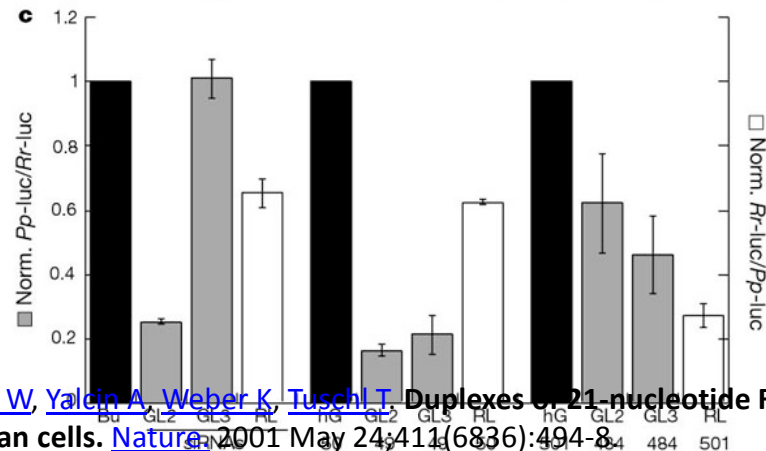
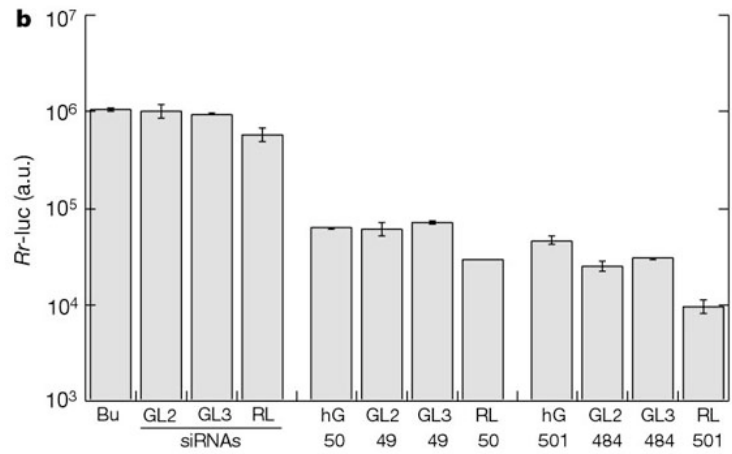
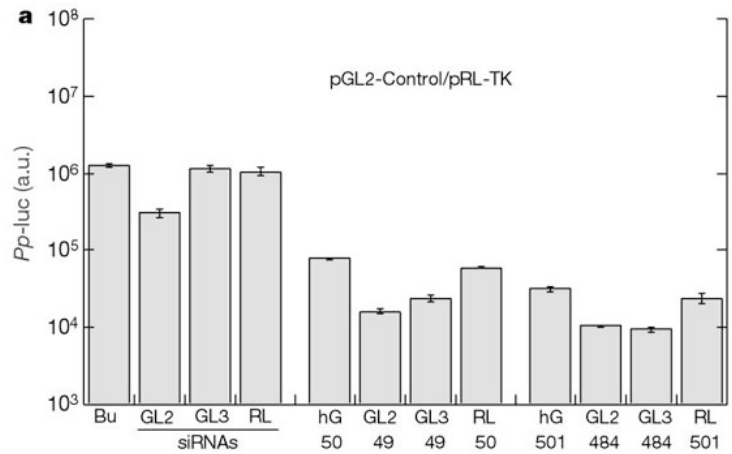


Figure 3: Effects of 21-nucleotide siRNAs, 50-bp, and 500-bp dsRNAs on luciferase expression in HeLa cells.

[Elbashir SM, Harborth J, Lendeckel W, Yalcin A, Weber K, Tuschl T. Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells. Nature. 2001 May 24;411\(6836\):494-8.](#)

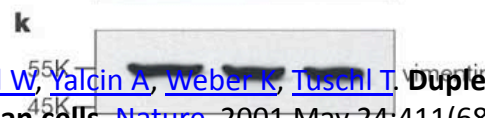
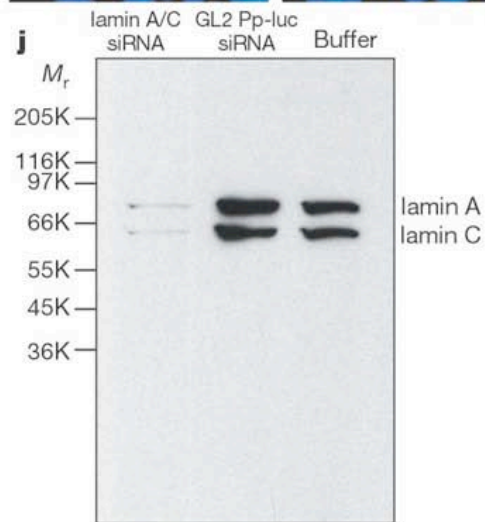
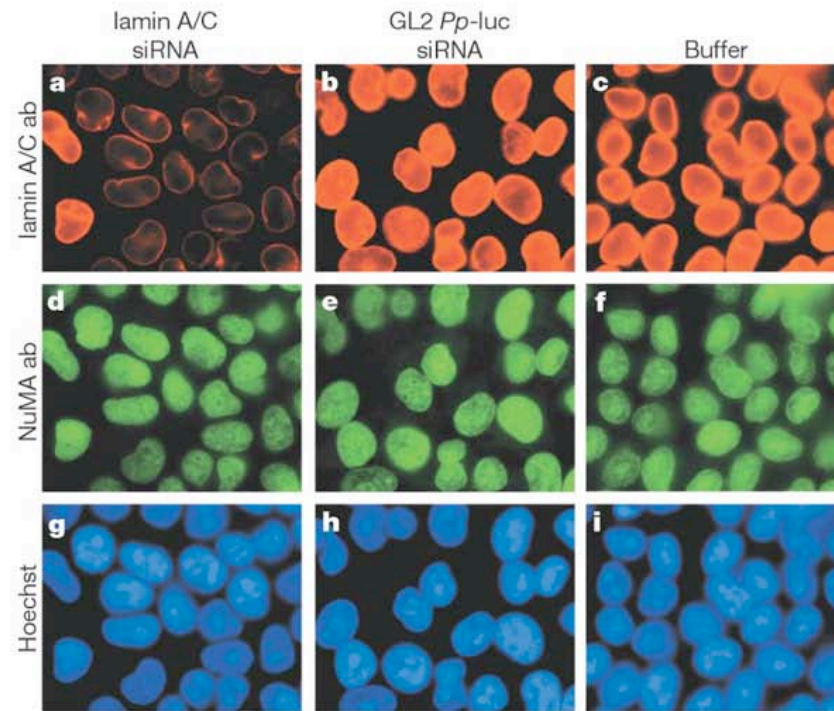


FIGURE 4. Silencing of nuclear envelope proteins lamin A/C in HeLa cells.

[Elbashir SM](#), [Harborth J](#), [Lendeckel W](#), [Yalcin A](#), [Weber K](#), [Tuschl T](#). Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells. [Nature](#). 2001 May 24;411(6836):494-8.