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# Wikimedia Projects

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Wikimedia Switzerland  
WSIS Geneva, 18 May 2009

# Wikimedia?

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Commons



WikiQuote

a multilingual free  
encyclopedia

**Wiktionary**

**[ˈwɪkʃənəri]** *n.*,

a wiki-based Open  
Content dictionary

Wileon [ˈwɪlɪən kɑːrɪ]



WikiSource



WikiBooks



Wikiversity



WIKINEWS



WikiSpecies



# Wikimedia Foundation

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- “Dedicated to encouraging the growth, development and distribution of free content”
- Not-for-profit - non commercial
- Multilingual - not national
- Neutral - not a political experiment

# Licensing

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- **NO** copyrighted works
- Currently: GFDL
- Moving towards Creative Commons 3.0
  - Attribution
  - Sharealike

# Collecting knowledge

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永樂大典 (Yongle)

1402-1424

8,000 texts



Britannica

Est. 1768

120,000 articles

Wikipedia

Est. 2001




12,000,000 articles  
(+1 every 10 seconds)






# The main non-institutional reference




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Global association of governments facilitating cooperation in international law, security, economic development, and social equity.  
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# Wikimedia Commons

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- Content library
- 4,000,000+ documents
- All of them for free!

<http://commons.wikimedia.org>

# Wikiversity

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- Learning resources
- Learning projects
- From pre-school to university,  
incl. professional and informal learning

<http://www.wikiversity.org>



# Open-access scientific contents

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- Dec.2008: *RNA Biology* mandates authors to submit summaries of their work on Wikipedia



# Open-access scientific contents

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## SmY RNA

From Wikipedia, the free encyclopedia  
 (Redirected from SmY)

**SmY ribonucleic acids (SmY RNAs)** are a family of **small nuclear RNAs** found in some species of **nematode** worms. They are thought to be involved in **mRNA** **trans-splicing**.

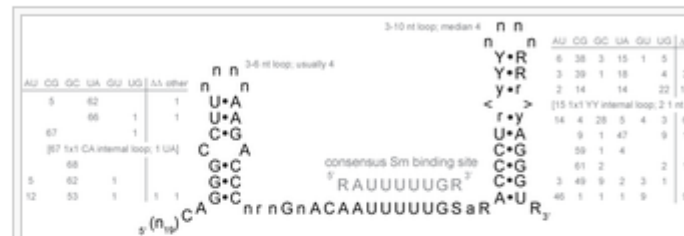
SmY RNAs are about 70-90 **nucleotides** long and share a common **secondary structure**, with two **stem-loops** flanking a **consensus binding site** for **Sm** protein.<sup>[2][3]</sup> Sm protein is a shared component of **spliceosomal snRNPs**.

SmY RNAs have been found in nematodes of class **Chromadorea**, which includes the most commonly studied nematodes (such as *Caenorhabditis*, *Pristionchus*, and *Ascaris*), but not in the more distantly related *Trichinella spiralis* in class **Dorylaimia**. The number of SmY genes in each species varies, with most *Caenorhabditis* and *Pristionchus* species having 10-26 related **paralogous** copies, while other nematodes have 1-5.<sup>[1]</sup>

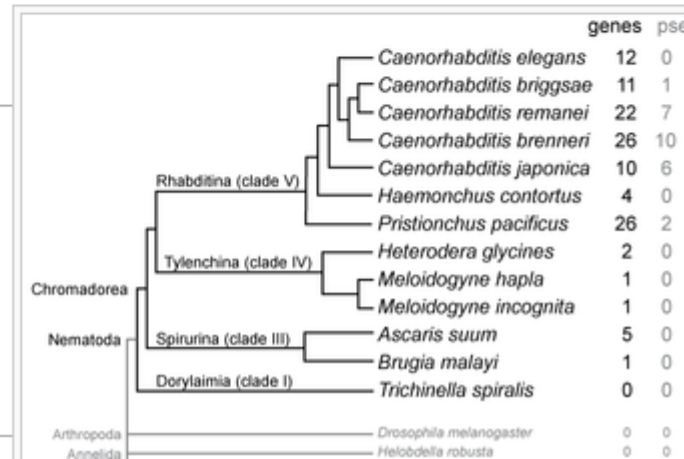
### Discovery [edit]

The first SmY RNA was discovered in 1996 in purified *Ascaris lumbricoides* spliceosome preparations, as was another called **SmX RNA** that is not detectably homologous to SmY.<sup>[2]</sup> Twelve SmY homologs were identified **computationally** in *Caenorhabditis elegans*, and ten in *Caenorhabditis briggsae*.<sup>[3]</sup> Several transcripts from these SmY genes were **cloned** and **sequenced** in a systematic survey of small non-coding RNA transcripts in *C. elegans*.<sup>[4]</sup>

### Function [edit]



Consensus secondary structure of SmY RNAs, deduced by manual comparative analysis.<sup>[clarification needed]</sup> A count of base pair substitutions observed in 68 structurally aligned sequences in the Rf seed alignment is shown for each base pair, illustrating the extensive support for this predicted structure.<sup>[1]</sup>



# Open-access scientific contents

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- Win-win:
  - Knowledge is shared and made accessible
  - Peer-review quality
  - Journal profits from Wikipedia's visibility
  - Authors increase their impact



# Next steps

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