

Should You Keep Using  
Old-fashioned Search Engines?

Or Join the Modern Era of  
Artificial Intelligence-based Discovery?

Watch to find out!

# Tumor Protein p53

- A highly-studied tumor suppressor gene
- Mutated in more than 50% of human cancers
- Referred to in the literature as
  - p53
  - TP53
  - TRP53
  - BCC7
  - and many other names

Searching the literature for such an important gene should be easy.

**Right?**

Let's try a few different search engines.

# Number of Results for Each Search



<u>p53</u>	<u>TP53</u>	<u>TRP53</u>	<u>BCC7</u>
130706	130706	130706	130706

Artificial Intelligence provides comprehensive and consistent results.



82360	12220	31782	0
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Even with MeSH, the results are inconsistent.



82360	12220	31782	0
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This site says there is a difference between their “semantic search technology and traditional search engines such as PubMed”. Hmmm.



1720000	127000	10900	1986
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Lots of content, lots of irrelevant results, and no consistency.



111969	13867	1061	27
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Still no consistency.



107465	75725	74809	0
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Their ontology-based semantic framework must not apply to searching.

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