

“Molecular Surgery for Scientists”



PRESORTED STD.  
U.S. POSTAGE  
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### Targeting Technology

Advanced Targeting Systems' technology - Molecular Neurosurgery - is a modification of one of the most widely used techniques: surgical lesioning of a region and observation of the effect.

Choose an ANTIBODY<sup>§</sup> specific to your cell type.



SAPORIN is a potent cytotoxin. Safe in the lab. Lethal in the cell.

ATS binds SAPORIN with your ANTIBODY to make a powerful targeting agent.

§ or anything recognized on the cell surface and internalized.

The targeting agent is administered to the cells (*in vivo* or *in vitro*).

The antibody seeks out its target receptor on the cell surface.



Cells that do not have the receptor will not be affected.

The conjugate is internalized and SAPORIN breaks away from the antibody.



SAPORIN inactivates the ribosomes.

The result is **CELL DEATH.**

### Targeting Teaser

Unscramble these five Jumbles **taken from the cover story**, one letter to each block, to solve the puzzle.

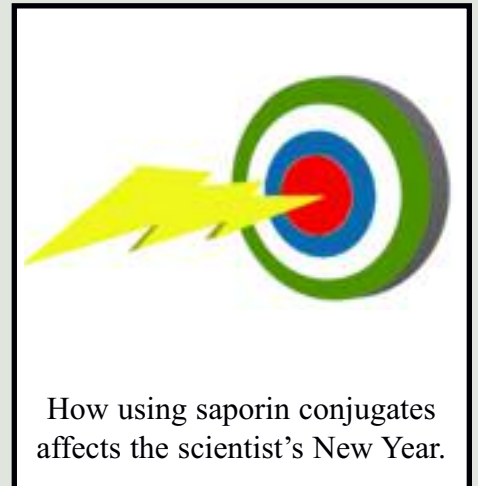
INSTOPPERY  
□ □ □ □ □ □ □ ○ □

EXCLOMP  
□ □ □ □ □ ○ □

STARVERE  
□ □ ○ □ □ ○ □ □

COLOTOMONI  
□ □ □ □ □ □ ○ □ □ □

REIGNCOLICH  
□ □ □ □ □ □ □ ○ □ □



Arrange the circled letters to form the answer, as suggested by the above clue.

ANSWER:

IT KEEPS RESEARCH RIGHT ON ... ○ □ ○ □ ○ □ ○ □ !

WIN!



**SOLVE** the puzzle online with the correct solution by March 31, 2015.

**WIN** a 2015 ATS Calendar!

[www.atsbio.com/news/15q1\\_teaser.html](http://www.atsbio.com/news/15q1_teaser.html)