

SCIENCE NEWS

CONTENIDO

VOLUME 180 No. 10, NOVEMBER 2011

IN THE NEWS

- 5 Story One.**
▪ Rain and fire cause rapid shifts between savanna and forest.
- 8 Genes & Cells.**
▪ Stem cells made using human eggs and adult cells.

▪ Body clocks outside the brain may contribute to disease.

▪ In death, 115-year-old woman shares her genetic secrets.

▪ Double dose of gene may have yielded bigger brain.
- 10 Atom & Cosmos.**
▪ Speedy neutrinos under fire.

▪ ALMA's first images.

▪ Asteroid's mountain second only to Mars' Olympus Mons.

▪ Saturn's rings hold ripples from past comet.
- 12 Earth.**
▪ Europeans' New World arrival may have altered the climate.

▪ An ancient moth's true colors.
- 13 Humans.**
▪ Early peoples made their way to Asia more than once.
- 14 Body & Brain.**
▪ Brain's adjustments to hearing loss lead to tinnitus.

▪ Painkillers may boost miscarriage risk.

FEATURES

- 16 Like a Bolt From Above.**
COVER STORY: Encouraging lightning strikes is helping scientists understand the commonly observed, yet still mysterious, electric flashes.
Alexandra Witze.

22 **Beware the Long Tail.**
Poring over economic data from a physicist's perspective suggests that Wall Street's ways of estimating risk are in need of some changes.
Rachel Ehrenberg.

26 **Lopped off.**
With top predators pulled from their food webs, researchers observe unexpected effects coursing through terrestrial and marine ecosystems.
Nadia Drake.

DEPARTMENTS

2 **From the Editor**

4 **Notebook**

30 **Bookshelf**

31 **Feedback**

32 **From the Archive**
Treating pneumonia with olive oil sounds strange, but the idea showed signs of early scientific savvy.

COVER

Worldwide, some 100 lightning flashes occur every second; this one lit up the skies in Missouri.
Gregg Williams/Shuttershock.