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>> Science Podcast
Listen to stories on the quantum cryptography arms race, salt-starved ecosystems, and more.
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Check out the latest in a series of Perspectives on Challenges in Climate Science at www.sciencemag.org/extra/climate.

COVER
A circulator for sound. The arrows represent acoustic signals flowing through the device (diameter: ~20 centimeters), which circulates sound in a nonreciprocal fashion: Signals can flow from left to top, from top to right, and from right to left, but not in the opposite directions. This creates one-way communication channels for sound, allowing listeners to hear but not be heard in return. See pages 495 and 516.
Image: Erik Zumalt, Cockrell School of Engineering, The University of Texas at Austin

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B. Sun et al.
A regulatory circuit controlling plant flowering genes leads the way to reconstruction of a time-delay control system.
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506 Exome Sequencing Links Corticospinal Motor Neuron Disease to Common Neurodegenerative Disorders
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512 Ultrafast Long-Range Charge Separation in Organic Semiconductor Photovoltaic Diodes
S. Gélinas et al.
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516 Sound Isolation and Giant Linear Nonreciprocity in a Compact Acoustic Circulator
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519 Unlocking the Potential of Cation-Disordered Oxides for Rechargeable Lithium Batteries
J. Lee et al.
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522 Low Core-Mantle Boundary Temperature Inferred from the Solidus of Pyrolite
R. Nomura et al.
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525 A Mechanosensory Pathway to the Drosophila Circadian Clock
A. Simoni et al.
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529 Marine Tubeworm Metamorphosis Induced by Arrays of Bacterial Phage Tail–Like Structures
N. J. Shikuma et al.
Benthic marine larval development is triggered by a bacterially expressed structure of phage origin.

533 Reversal of Female Infertility by Chk2 Ablation Reveals the Oocyte DNA Damage Checkpoint Pathway
E. Bolcun-Filas et al.
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536 Mating Induces Shrinking and Death in Caenorhabditis Mothers
C. Shi and C. T. Murphy
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541 Males Shorten the Life Span of C. elegans Hermaphrodites via Secreted Compounds
T. J. Maures et al.
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544 Savanna Vegetation-Fire-Climate Relationships Differ Among Continents
C. E. R. Lehmann et al.
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552 Effector Specialization in a Lineage of the Irish Potato Famine Pathogen
S. Dong et al.
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