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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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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

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Elucidation of a system that monitors DNA damage in both meiotic and resting oocytes in mice is shown.

536 Mating Induces Shrinking and Death in *Caenorhabditis* Mothers

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541 Males Shorten the Life Span of *C. elegans* Hermaphrodites via Secreted Compounds

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Male nematodes produce a soluble signal that shortens the life span of worms of the opposite sex.

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552 Low Core-Mantle Boundary Temperature Inferred from the Solidus of Pyrolite

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572 Benthic 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.
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