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This week’s show features a segment on the science of soundscapes and a roundup of shorts from our daily news site.

>>  Find More Online
Check out the latest in a series of Perspectives on Challenges in Climate Science at www.sciencemag.org/extra/climate.

COVER
Composite image from a molecular animation of how endocytic clathrin-coated vesicles ~100 nanometers in diameter form. Clathrin is the principal molecular scaffold for many cellular membrane trafficking processes. The Gordon Research Conference on Lysosomes and Endocytosis will be held 15 to 20 June 2014 in Andover, New Hampshire. See page 902 for the conference schedule and preliminary programs.

Image: Janet Iwasa (University of Utah) and Tom Kirchhausen (Harvard Medical School)

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S. Roy et al.  
Transfer of signaling proteins along long filopodia is required for proper development in the fruit fly.  
Research Article Summary; for full text: http://dx.doi.org/10.1126/science.1244662

853 Rhodium-Catalyzed Intermolecular C–H Silylation of Arenes with High Steric Regiocontrol  
C. Cheng and J. F. Hartwig  
A catalyst that adds silyl groups to specific sites on aryl rings could streamline synthesis of pharmaceutical intermediates.

857 Dendritic Inhibition in the Hippocampus Supports Fear Learning  
M. Lovett-Barron et al.  
Cholinergic activation of somatostatin-positive hippocampal CA1 interneurons promotes fear-context associations.

868 Artificial Muscles from Fishing Line and Sewing Thread  
C. S. Haines et al.  
Polymer fibers can be transformed into highly efficient artificial muscles through the application of extreme twist.

873 “Nonswellable” Hydrogel Without Mechanical Hysteresis  
H. Kamata et al.  
Addition of a thermoresponsive component to a hydrogel counters its tendency to swell and improves its mechanical properties.

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Z. K. Liu et al.  
Angle-resolved photoemission spectroscopy is used to detect bulk Dirac cones in a three-dimensional analog of graphene.

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J. L. Payne and A. Wagner  
Transcription factor binding sites form connected networks.

878 Structural Insights into Ubiquinone Biosynthesis in Membranes  
W. Cheng and W. Li  
An integral membrane enzyme active site opens laterally to the lipid bilayer to facilitate catalysis inside the membrane.

881 Flavivirus NS1 Structures Reveal Surfaces for Associations with Membranes and the Immune System  
D. L. Akey et al.  
The structure of a viral protein provides a basis for understanding its function and could guide vaccine development.

885 Growth Factors Engineered for Super-Affinity to the Extracellular Matrix Enhance Tissue Healing  
M. M. Martino et al.  
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F. Bonini et al.  
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H. Kamata et al.  
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