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786 Cyclic GMP-AMP Synthase Is a Cytosolic DNA Sensor That Activates the Type I Interferon Pathway L. Sun et al. Cyclic guanosine monophosphate–adenosine monophosphate synthase is identified and shown to be activated by DNA, but not RNA, in mammalian cells. >> Perspective p. 763; Report p. 826

REPORTS

791 Universal Computation by Multiparticle Quantum Walk A. M. Childs et al. A scalable quantum computer architecture based on multiple interacting quantum walkers is proposed.

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798 Boson Sampling on a Photonic Chip J. B. Spring et al. Optical circuits are used to demonstrate a quantum-enhanced calculation. >> Perspective p. 767

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804 Similarity of Scattering Rates in Metals Showing T-Linear Resistivity J. A. N. Bruin et al. Transport measurements show little variation across metals with resistivity that scales linearly with temperature.

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816 Probing Allostery Through DNA S. Kim et al. Proteins bound to the same, but not overlapping, stretch of DNA modulate each other’s DNA binding affinity. >> Perspective p. 766

819 Multiplex Genome Engineering Using CRISPR/Cas Systems L. Cong et al. A bacterial genome defense system is adapted to function as a genome-editing tool in mammalian cells. >> Perspective p. 768

823 RNA-Guided Human Genome Engineering via Cas9 P. Mali et al. A bacterial genome defense system is adapted to function as a genome-editing tool in mammalian cells. >> Perspective p. 768

826 Cyclic GMP-AMP Is an Endogenous Second Messenger in Innate Immune Signaling by Cytosolic DNA J. Wu et al. Cyclic guanosine monophosphate–adenosine monophosphate acts as a second messenger that turns on antiviral immunity in response to cytoplasmic DNA. >> Perspective p. 763; Research Article p. 786

830 Prediction Error Governs Pharmacologically Induced Amnesia for Learned Fear D. Sevenster et al. Human fear memory labilization can be assessed noninvasively, independent of whether reconsolidation occurs.