RESEARCH ARTICLES

597 Structural Basis for Protein Antiaggregation Activity of the Trigger Factor Chaperone T. Saio et al.
Nuclear magnetic resonance data show how molecular chaperones recognize and prevent aggregation and misfolding of unfolded proteins.
Research Article Summary; for full text: http://dx.doi.org/10.1126/science.1250494
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598 Hippocampal Neurogenesis Regulates Forgetting During Adulthood and Infancy K. G. Akers et al.
Addition of new neurons leads to remodeling of hippocampal circuitry and memory degradation.
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603 Large-Scale Psychological Differences Within China Explained by Rice Versus Wheat Agriculture T. Tafelm et al.
A history of growing rice contributed to an interdependent mode of thought.
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REPORTS

608 Fermi Surface and Pseudogap Evolution in a Cuprate Superconductor Y. He et al.

612 Simultaneous Transitions in Cuprate Momentum-Space Topology and Electronic Symmetry Breaking K. Fujita et al.
Scanning tunneling microscopy is used to provide evidence for a quantum critical point beneath the superconducting dome.

616 Direct, Nonoxidative Conversion of Methane to Ethylene, Aromatics, and Hydrogen X. Guo et al.
Methyl radicals that form at isolated iron sites in a silica matrix form gas-phase products and do not deposit solid carbon.

620 Restoration of Large Damage Volumes in Polymers S. R. White et al.
A sequential set of gelation and polymerization reactions are used for patching large gaps in a polymeric sample.
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623 In Situ TEM Observation of a Microcrucible Mechanism of Nanowire Growth R. Boston et al.
Nanowire growth from a microcrucible catalyst particle at the bottom of the wire is observed in situ.

626 Spatially Distributed Local Fields in the Hippocampus Encode Rat Position G. Aparnal et al.
Electrical fields within the hippocampus can now be decoded to reveal a rat’s location.

630 Vascular and Neurogenic Rejuvenation of the Aging Mouse Brain by Young Systemic Factors L. Katsimpardi et al.
A circulating growth factor promotes youthful muscles and brains in aged mice.
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634 Identification of LRRC8 Heteromers as an Essential Component of the Volume-Regulated Anion Channel VRAC F. K. Voss et al.
Components of an elusive swelling-activated anion channel are identified and form a structurally new class of channel.
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638 Gibberellin Acts Positively Then Negatively to Control Onset of Flower Formation in Arabidopsis N. Yamaguchi et al.
Inflorescence architecture is shaped by a biphasic signaling network involving the plant hormone gibberelin.

645 Identification of Mutation-Specific CD4+ T Cells in a Patient with Epithelial Cancer E. Tran et al.
T cells specific for a mutation expressed in tumor cells show antitumor activity in a patient with an epithelial cancer.

649 The Transcription Factor Gat6 Links Tissue Macrophage Phenotype and Proliferative Renewal M. Rosas et al.
The major self-renewing population of peritoneal macrophages is under discrete tissue-selective transcriptional control.

650 Restoring Systemic GDF11 Levels Reverses Age-Related Dysfunction in Mouse Skeletal Muscle M. Sinha et al.
A circulating growth factor promotes youthful muscles and brains in aged mice.
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