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Major Galaxy Mergers and the Growth of Supermassive Black Holes in Quasars *E. Treister* et al.

Obscured and unobscured quasars represent two sequential phases of gas-rich mergers of massive galaxies. 10.1126/science.1184246

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RESEARCH ARTICLE: Gain-of-Function Enhancement of IP₃ Receptor Modal Gating by Familial Alzheimer's Disease-Linked Presenilin Mutants in Human Cells and Mouse Neurons *K.-H. Cheung* et al.

PERSPECTIVE: ER Calcium and Alzheimer's Disease—In a State of Flux *M. P. Mattson* Mutations in presenilin 1 may exaggerate Ca²⁺ signaling in neurons, increasing their vulnerability.

RESEARCH ARTICLE: Regulation of Zap70 Expression During Thymocyte Development Enables Temporal Separation of CD4 and CD8 Repertoire Selection at Different Signaling Thresholds M. Saini et al.

PERSPECTIVE: Two Receptors, Two Kinases, and T Cell Lineage Determination *B. Alarcón and H. M. van Santen* Specification of T cell lineage in the thymus

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A Shifting Drug Industry Means New Opportunities in Translational Research L. Chiu

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COMMENTARY: Taking Risks with Translational Research

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RESEARCH ARTICLE: Cross-Neutralization of 1918 and 2009 Influenza Viruses—Role of Glycans in Viral Evolution and Vaccine Design *C.-J. Wei* et al.

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PERSPECTIVE: H1N1—Can a Pandemic Cycle Be Broken?

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Sites targeted by antibodies against both 1918 and 2009 influenza viruses are blocked by sugars, which could inform future vaccine design.

RESEARCH ARTICLE: A Conformal, Bio-Interfaced Class of Silicon Electronics for Mapping Cardiac Electrophysiology

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Flexible electronics and sensors that stick to moving tissues can enable cardiac electrical activity mapping in animals.

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