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A male long-tailed manakin. In this species alpha and beta males cooperate in dual-mate courtship displays, but only the alpha partner mates during the partnership, which may last for several years. Long-term field data and genetic analysis of relatedness were used to exclude the two leading explanations for such cooperation—kin selection and reciprocity. Instead, the cooperation is a form of mutualism, with direct but long-delayed benefits to the nonmating beta males. See page 1030. [Photo: Richard LaVal]

Molecular Computation of Solutions to Combinatorial Problems
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Efficient Neutralization of Primary Isolates of HIV-1 by a Recombinant Human Monoclonal Antibody

Crystal Structure of β-D-Cellobetaetraos Hemihydrate with Implications for the Structure of Cellulose II

Cooperative Display and Relatedness Among Males in a Lek-Mating Bird
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Molecular Maps of Red Cell Hemihydrate and Genetic Human Molecular Hidden Cooperative Proteins

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Role of TCR γ Chain in T Cell Development and Selection
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Toxic configurations