This Week in Science

Editorial

265 The Attractiveness of Gloom

Letters


ScienceScope

275 Marveling at the neem tree; investigating a nuclear reactor for space; etc.

News & Comment

276 Poles Apart: Science Thrives on Ice ■ Hot Research in a Cold Climate ■ Sitting on Top of the World

Research News

284 Animating the Material World ■ What It Takes to Smarten a Material

287 Chimps: More Diverse Than a Barrel of Monkeys

289 Getting an Eyeful of Biomolecules

Gene Therapy for CF Advances

290 Have Astronomers Bagged A Pair of Pulsar Planets?

291 Putting the Moves on Plant Viruses

Perspective


Articles

294 U.S.-Japanese Space Relations at a Crossroads: J. M. Logsdon

301 Toward the Realization of a Josephson Computer: S. Hasuo

Research Article

COVER Model of the complex of human growth hormone and the extracellular domain of its receptor. One hormone molecule (red) is bound to two receptor molecules (blue and green); the pebbled yellow surface represents the cell membrane. The dimerization of the extracellular domains by the hormone is likely to aggregate the intracellular domains of the receptor as well, thereby producing signals leading to cell growth differentiation. See page 306. [Graphics by T. Hynes and A. M. de Vos with MIDAS-plus software]