1271 This Week in Science

Editorial

1273 Recognizing Self from Nonself

Letters


News & Comment

1299 Cold Fusion Conundrum at Texas A&M ■ Wolf: My Tritium Was an Impurity
1304 North Carolina Protests Chinese Pig Cartel
1305 Amazonian Biodiversity
1306 New Head for the WHO Global Program on AIDS
1307 Peer Review Under Review
1308 Briefings: Voyager's Last Light ■ Damage to Animal Research Mounts ■ Third World Pollution ■ Soviet Missile on Display ■ INS Puts Limits on Togetherness ■ U. of Maryland Gains from Glasonst ■ Turtle Navigation

Research News

1310 The Worm Project
1313 No Pain, No Gain?
1314 From One Coral Many Findings Blossom ■ Coral Pushes Back the Past

Articles

Tolerance in the Immune System

1335 The Role of the T Cell Receptor in Positive and Negative Selection of Developing T Cells: M. Blackman, J. Kappler, P. Marrack
1342 Clonal Deletion Versus Clonal Anergy: The Role of the Thymus in Inducing Self Tolerance: F. Ramsdell and B. J. Fowlkes
1349 A Cell Culture Model for T Lymphocyte Clonal Anergy: R. H. Schwartz
1369 Self-Nonself Discrimination by T Cells: H. von Boehmer and P. Kisielow
1373 The Need for Central and Peripheral Tolerance in the B Cell Repertoire: C. C. Goodnow, S. Adelstein, A. Bastein
1380 Autoimmune Diseases: The Failure of Self Tolerance: A. A. Sinha, M. T. Lopez, H. O. McDevitt
An allegory of immune tolerance, inspired by M. C. Escher. Immune function depends on distinguishing between self and nonself. When the immune system cannot determine whether an antigen is self or foreign, self tolerance may break down and autoimmune disease ensues. The articles on tolerance in the immune system begin on page 1335. [Concept by Linda J. Miller, illustration by Julie Cherry]

1388  The Influence of Allogeneic Cells on the Human T and B Cell Repertoire: J. J. van Rood and F. H. J. Claas

1394  Axial Oxygen–Centered Lattice Instabilities and High-Temperature Superconductivity: S. D. Conradson, I. D. Raistrick, A. R. Bishop

1398  North-South Contraction of the Mojave Block and Strike-Slip Tectonics in Southern California: J. M. Bartley, A. F. Glazner, E. R. Schermer

1402  Partial Symmetrization of the Photosynthetic Reaction Center: S. J. Robles, J. Breton, D. C. Youvan

1405  Correlated Evolution of Female Mating Preferences and Male Color Pattern in the Guppy Poecilia reticulata: A. E. Houde and J. A. Endler

1408  Identification of an Inhibitor of Neovascularization from Cartilage: M. A. Moses, J. Sudhalter, R. Langer

1410  Fibroblast Growth Factor Receptor Is a Portal of Cellular Entry for Herpes Simplex Virus Type 1: R. J. Kaner, A. Baird, A. Mansukhani, C. Basilico, B. D. Summers, R. Z. Florkiewicz, D. P. Hajjar


1419  Flunarizine Protects Neurons from Death After Axotomy or NGF Deprivation: K. M. Rich and J. P. Hollowell


1428  Behind the Factory Walls, reviewed by P. R. Gregory

1432  Biological Culture Collection Goes Online

1433  Monoclonal Antibodies

1434  Benchtop Cleanroom

1435  DNA Sequence Computer Entry System

1436  Scientific Information Managing Software

1437  Transcription Translation System

1438  Literature