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Charles Darwin's abiding interest in the classification of barnacles, illustrated here, was one of the inspirations for his investigations into the origins and diversification of species. *Science* marks Darwin's 200th birthday with a special section on speciation beginning on page 727.

Image: Illustrations by George Sowerby, reproduced with permission from *The Complete Work of Charles Darwin Online*, John van Wyhe, Ed. (<http://darwin-online.org.uk>); background: iStockphoto.com

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800 Changes in Cortical Dopamine D1 Receptor Binding Associated with Cognitive Training

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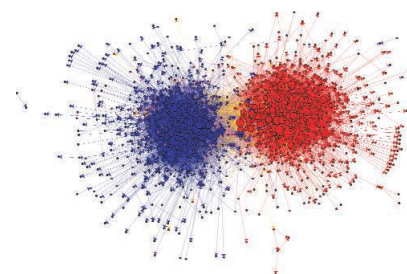
Training of working memory alters brain biochemistry by changing the density of cortical dopamine receptors.

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Molecular and Evolutionary History of Melanism in North American Gray Wolves

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10.1126/science.1165448

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Blue or Red? Exploring the Effect of Color on Cognitive Task Performances

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Blue favors creativity in humans, whereas red improves attention to detail.

10.1126/science.1169144

Dynamic Order-Disorder in Atomistic Models of Structural Glass Formers

L. O. Hedges et al.

The liquid-to-glass transition of a simple mixture is controlled by parameters that drive the system away from equilibrium.

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Implications of a VLBI Distance to the Double Pulsar J0737-3039A/B

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Tests of gravity theories that use this double pulsar, now recognized as being more distant, will be more precise.

10.1126/science.1167969

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Comment on "Human-Specific Gain of Function in a Developmental Enhancer"

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full text at www.sciencemag.org/cgi/content/full/323/5915/714c

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Children born to genetically unrelated mothers provide clues to origins of antisocial behavior.

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Widespread volcanism and tropical temperatures helped ancient turtles migrate to America.

Titan's Methane Mystery

Scientists suspect liquid hydrocarbon reservoirs lurk beneath the Moon's surface.

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The Signal Transduction Knowledge Environment

PERSPECTIVE: Extracellular ATP in the Immune System—More Than Just a "Danger Signal"

A. Trautmann

Extracellular ATP is an important modulator of immune responses.

PERSPECTIVE: Bistable Switches for Synaptic Plasticity

H. Ogasawara and M. Kawato

Nearly a decade intervened between theoretical predictions and experimental verification of the mechanisms underlying synaptic plasticity.

PODCAST

P. P. Pandolfi and A. M. VanHook

Inactivating mTOR signaling in the adult mouse prostate decreases the incidence of cancer.

E-LETTER: Microarrays Need Phylogenetics

M. Abu-Asab

Interpreting microarray experiments might benefit from evolution-compatible analytical tools.

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www.sciencemag.org/career_magazine

Free Career Resources for Scientists

February 2009 Funding News

J. Fernández

Learn about the latest in research funding, scholarships, fellowships, and internships.

Darwin's Legacy 1: Rich Collections, Deep Expertise

S. Carpenter

Natural history museums have reasserted their scientific relevance in recent years.

Darwin's Legacy 2: Keeping Order

K. Travis

London entomology curator Erica McAlister is responsible for everything from museum collections to fieldwork.

Darwin's Legacy: Resources

Science Careers Staff

Here is a collection of resources related to careers in the *H.M.S. Beagle's* wake.

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SCIENCEPODCAST

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Download the 6 February *Science* Podcast to hear about the biochemistry behind better short-term memory, the genetics of wolf coat color, the origin of art, and more.

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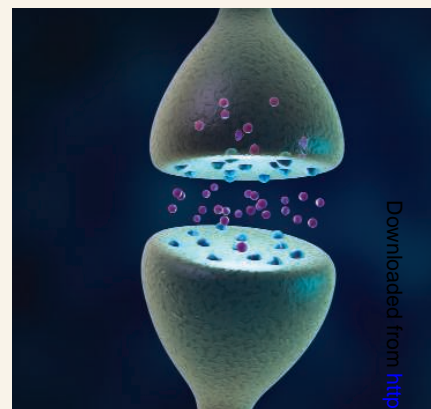
A History of Beginnings

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Dynamic synapses.



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