NEWS & COMMENT

NSF: Being Blown Off Course? 880
The View from the Community
NIH's Strategic Planning Rorschach Blot

Army Investigates Researcher's Report
of Clinical Trial Data

Brussels Provides Funding Lifeline to Irish
Research
Researchers Turn to Charity and Gambling

FDA Sets Out to Hire 600—and Image Is a
Problem

RESEARCH NEWS

How Scary Things Get That Way 887
Neuroscience Fantasia in an Appropriate
Setting

Satellite Images Display the Galaxy's New
Colors
What Kind of a Galaxy Is This, Anyway?

DEPARTMENTS

THIS WEEK IN SCIENCE

EDITORIAL
Cellular Membranes

LETTERS

Electrical Measurements on Endomembranes:
A. Bertl et al. • Bioremediation Review:
M. Alexander and R. C. Loehr • Biomimetics: An
Apology: R. Roy • Top Quark Search: More
Clarification: G. R. Goldstein • Old Words from the
Wise: J. E. Cohen

SCIENCESCOPE 879
Physics loses a particle, gains a unicorn, etc.

RANDOM SAMPLES

Eastern Scientists Flood Grants Program
Euroscientists Grumble Over Gene Laws
Putting Aesthetics Back into Biology
Math Controllers Quash NSF Funding Scheme
Things Are Tough All Over
Biotech by the Bay
Chaos Games Yield DNA Portratire

BOOK REVIEWS

Is Anyone Out There?, reviewed by R. N. Bracewell
Frontiers of High-Pressure Research, W. L. Vos
Other Books of Interest • Vignettes: Styles of
Mentation • Books Received

PRODUCTS & MATERIALS

866

Science • Vol. 258 • 6 November 1992

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Illustration of a plasma membrane and the interior of a cell. Secretory vesicles containing proteins bud from the Golgi apparatus in the interior of the cell and fuse with the plasma membrane; transport vesicles bud from the rough endoplasmic reticulum (with associated ribosomes shown as orange dots) and fuse with the Golgi apparatus. The central role of the cellular membrane in diverse aspects of cell biology is the focus of this year’s Frontiers in Biology issue. See the Editorial and the special section of Articles beginning on page 917. [Illustration: Tomo Narashima, New York]