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Brain molecule helps 'wake up' cells that could help tackle MS and similar diseases, study shows

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Immunologists and geneticists at UT Southwestern Medical Center have discovered how vitamin A enters immune cells in the intestines—findings that could offer insight to treat digestive diseases and ...

Scientists reveal how vitamin A enters immune cells in the gut

UC San Diego School of Medicine researchers will receive \$6.4 million in National Institutes of Health grant funding to study how external signals and genetic variations influence the behavior of one ...

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Sequencing the human genome -; a feat accomplished in 2003 -; provided the list of ingredients that make up a human being, but not the instructions that explain how those ingredients are used by each ...

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University of Alberta: Brain molecule helps 'wake up' cells that could help tackle MS and similar diseases, study shows
A time-lapse graphic showing the foraging behavior of *C. elegans* based on a computer-generated model of the way four sensory cells dictate the search for food. Credit: University of Leeds Neuroscienti ...

Taste Cells Can Control a Whole Animal's Foraging Strategy
An immunological molecule called fractalkine can boost the production of brain cells that produce myelin, a key factor in diseases such as multiple sclerosis, according to recent research.

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features new co-author Angelika Amon, a completely rewritten chapter on the Cell Cycle and significant updates to experimental techniques.

Your insider guide to the stuff of life 3.8 billion years old and counting, there's more than a little to know about the fundamentals of how life works. This friendly guide takes you from the primordial soup to the present, explaining how specialized cells have given rise to everything living, from the humblest amoeba to walking, talking human beings. Whether you're enrolled in a cell or molecular biology course and need a straightforward overview, or are just curious about the latest advances, this fully updated edition is your all-access ticket to our inner world. Molecular & Cell Biology For Dummies decodes jargon and theories that can tax even the most devoted student. It covers everything from basic principles to how new technology, genetic testing, and microarray techniques are opening up new possibilities for research and careers. It also includes invaluable tips on how to prepare for—and ace—your exams! Explore the structure and function of the cells—and find out why cellular context is crucial to the study of disease Discover how molecular biology can solve world problems Understand how DNA determines traits and is regulated by cells Enhance your knowledge and results with online resources and study tips From microscopic details to macro concepts, this book has something for you.

The much-anticipated 3rd edition of Cell Biology delivers comprehensive, clearly written, and richly illustrated content to today's students, all in a user-friendly format. Relevant to both research and clinical practice, this rich resource covers key principles of cellular function and uses them to explain how molecular defects lead to cellular dysfunction and cause human disease. Concise text and visually amazing graphics simplify complex information and help readers make the most of their study time. Clearly written format incorporates rich illustrations, diagrams, and charts. Uses real examples to illustrate key cell biology concepts. Includes beneficial cell physiology coverage. Clinically oriented text relates cell biology to pathophysiology and medicine. Takes a mechanistic approach to molecular processes. Major new didactic chapter flow leads with the latest on genome organization, gene expression and RNA processing. Boasts exciting new content including the evolutionary origin of eukaryotes, super resolution fluorescence microscopy, cryo-electron microscopy, gene editing by CRISPR/Cas9, contributions of high throughput DNA sequencing to understand genome organization and gene expression, microRNAs, lncRNAs, membrane-shaping proteins, organelle-organelle contact sites, microbiota, autophagy, ERAD, motor protein mechanisms, stem cells, and cell cycle regulation. Features specially expanded coverage of genome sequencing and regulation, endocytosis, cancer genomics, the cytoskeleton, DNA damage response, necroptosis, and RNA processing. Includes hundreds of new and updated diagrams and micrographs, plus fifty new protein and RNA structures to explain molecular mechanisms in unprecedented detail.

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