

Physiology Of The Bacterial Cell A Molecular Approach

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Physiology Of The Bacterial Cell

Researchers have developed a new microfluidic platform to track a very rare type of cell that can survive antibiotic treatments. The results have important implications for microbiologists learning ...

Researchers unlock behavior of rare cells that evade antibiotics by 'playing dead'

A brief guide to how your lymphatic system works and why it's important.

Meet Your Lymphatic System: A Key Part of the Immune System

The Keio Research Highlights website offers more details about this and other recent research being conducted by researchers at Keio University. Lipids are hydrocarbon molecules—such as fats and ...

Keio University Research: Demystifying the fatty-world of lipids

Note dividing bacteria (arrowheads). (D) Ciliate cytoplasm with small, elliptical algal cells likely originating from autospore ... intracellulare". Inferred physiology and energy metabolism of the ...

A microbial eukaryote with a unique combination of purple bacteria and green algae as endosymbionts

5 Department of Physiology, University of Texas Southwestern ... 935 During infection, intracellular bacterial pathogens translocate a variety of effectors into host cells that modify host membrane ...

Dynamic remodeling of host membranes by self-organizing bacterial effectors

Cross-talk on this axis can be mediated by small-molecular metabolites secreted by gut bacteria ... brain cells (6). The gut microbiome responds quickly to environmental factors and represents a ...

Can microbes combat neurodegeneration?

The modern medicine cabinet is filled with all sorts of things, from pain relievers and birth control pills to ...

What You'll Find Inside Medicine Cabinets in 2030

The device, on a micro level, mimics the structural and functional properties of a real placenta, passing nutrients and oxygen while blocking viruses, bacteria, and other unwanted things from ...

Placenta-on-a-Chip to Study Pregnancy, Develop New Drugs Safe for the Fetus

And how does it control them?" The kinetochore is no simple structure. In this work, each protein that makes up the complex was expressed in bacterial cells, then the proteins had to be isolated.

A Step Toward Artificial Chromosomes - Manufacturing a Kinetochore

T-1 is a naturally occurring thymic peptide used worldwide for the treatment of certain viral infections due to its ability to augment T-cell function. Ulinastatin is one of the Kunitz-type ...

Immunomodulation in Sepsis: State of the Art and Future Perspective

In immune disorders and allergies, these cells are misprogrammed early on, by harmful bacteria or inflammation ... biochemistry, physiology of the developing infant gut microbiome.

New research is first to show how key gut bacterium trains infant immune system

See allHide authors and affiliations Oxidative stress is necessary for normal cellular function and tissue physiology ... bacterial FN3K homologs, which lack a P-loop Cys, were not. Furthermore, ...

A redox-active switch in fructosamine-3-kinases expands the regulatory repertoire of the protein kinase superfamily

Dr. Stefan Raunser, Max Planck Institute for Molecular Physiology, Dortmund/Germany ... Tübingen/Germany), the question how immune cells influence liver diseases (Prof. Dr. Mathias Heikenwälder ...

About the beginning of life, bacteria in the gut and collective intelligence in bees - News from the Life Sciences

In fact, most of our immune cells reside in our gut, and they depend on short-chain fatty acids produced when gut bacteria digest dietary fiber ... exceptional insights into the dependence of human ...

Microbiome Medicine: Scientists Harness the Body's 'Bugs' to Treat Asthma, MS and More

We also found the same Alb/hHv1 interaction allows the white blood cells called neutrophils to produce and secrete the inflammatory mediators that kill bacteria ... Alb in the physiology of ...

Albumin supplementation improves human fertility, fights infection

Cell lines are one the major tools used in research for studying the normal physiology and biochemistry of cells, the ...

Cell Line Development Services Market Research Report with Size, Share, Value, CAGR, Outlook, Analysis, Latest Updates, Data, and News 2021-2028

Dr. Stefan Raunser, Max Planck Institute for Molecular Physiology, Dortmund/Germany ... Tuebingen/Germany), the question how immune cells influence liver diseases (Prof. Dr. Mathias Heikenwälder ...

About the beginning of life, bacteria in the gut and collective intelligence in bees

This development, says Olivier Elemento, a professor of physiology and biophysics at ... "Development of therapeutics against viral and bacterial disease will be cheaply and quickly designed ...