

Systems Biology Of Clostridium

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Systems Biology Of Clostridium

Researchers from Wake Forest School of Medicine in North Carolina have demonstrated that a common diabetes drug inhibits the spread of *Clostridioides difficile*, or C. diff -- a potentially ...

Diabetes drug could protect against dangerous infection

The microbiome plays a fundamental role in the maturation, function, and regulation of the host-immune system from birth to old age. In return, the immune system has co-evolved a mutualistic ...

The aging gut microbiome and its impact on host immunity

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Therefore, a two-step diagnostic algorithm with a rapid highly sensitive screening method to identify positive samples, to be confirmed by gold standard, should be strongly recommended. Some ...

Epidemiology, Diagnosis and Treatment of

difficile infection. Future Studies & the Application of Whole-Genome Sequencing Whole-genome sequencing is the most definitive typing system. Whole-genome sequencing comparisons for epidemiology ...

The Continually Evolving Clostridium Difficile Species

Clostridium difficile is the most common cause of antibiotic ... Our work combines molecular microbiology and structural biology to study S-layer biogenesis and function.

Dr Robert Fagan

11 Systems Biology and Personalised Medicine Division ... 14-3-3 binding was observed for bacterial effectors that activate the pyrin inflammasome, such as Clostridium difficile toxin B (TcdB). The ...

Familial autoinflammation with neutrophilic dermatosis reveals a regulatory mechanism of pyrin activation

"Synthetic biology applies more of a systems or engineering approach," Pal explains ... Most efforts to ferment sugars into butanol rely upon bacteria, Clostridium acetobutylicum. But even with ...

Building Better Biofuels

2 CAS Center for Excellence in Molecular Cell Science, Shanghai Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences ... A unique feature observed in this system is the initial mode ...

Structural basis of trehalose recycling by the ABC transporter LpqY-SugABC

Our laboratory views microbes as small "green" factories that can convert simple carbon sources such as CO₂, glucose or renewable biomass into bioproducts such as fuels, commodity and specialty ...

Vincent Martin, PhD

Between 5% and 12% of hospital patients in the EU are thought to acquire an infection during their stay, with many caused by bacteria such as *Clostridium difficile* (C. diff) that are resistant to ...

The Answer To Tackling Superbugs Could Be ... More Superbugs

immune cells and nervous system in the induction of intestinal disease. The team is interested in studying neuroimmune-microbial interactions in the gastrointestinal tract using a range of techniques ...

Tor Savidge Lab

After her transplant, with her immune system suppressed to prevent rejection ... (known as the "superbug" MRSA when resistant), *clostridium difficile* and gonorrhoea. As things stand, says ...

A crisis even bigger than Covid: the new war on antibiotic resistance

A mother's fat intake can impact infant infectious disease outcomes Findings show types of fats matter when it comes to gut well-being Date: April 14, 2021 Source: University of British Columbia ...

A mother's fat intake can impact infant infectious disease outcomes

Microbiome transplants are already being used to combat certain illnesses, such as *Clostridium*

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difficile infections ... The CMMR provides metagenomic, informatics, model system and molecular biology ...

The Human Microbiome Project

Through such pacts, GSK is using, for example, reverse vaccinology and systems biology to accelerate vaccine ... therapeutic chronic hepatitis B, Clostridium difficile and Shigella.

Vaccines partnering to give your science and technology a global impact

Dr. Deanna Gibson, a biochemistry researcher, along with Dr. Sanjoy Ghosh, who studies the biochemical aspects of dietary fats, teamed up with chemistry and molecular biology researcher ... as ...

Baby's Response to Infectious Disease Impacted by Mother's Fat Intake

It has programs targeting diseases that include familial adenomatous polyposis, GM2 gangliosidosis, neurofibromatosis, neurofibromatosis type 2, cerebral cavernous malformation and Clostridium ...

Recursion's IPO set to be 2021's second highest

Cystoisospora spp., Giardia spp., Tritrichomonas foetus (blagburni), and Clostridium spp. Some of these infectious agents also potentially infect humans (zoonoses). Thus, it is important to resolve ...

Use of Natural Models to Save Cats with Upper Respiratory Tract Disease or Diarrhea

A team of UBC Okanagan researchers has determined that the type of fats a mother consumes while breastfeeding can have long-term implications on her infant's gut health. Dr. Deanna Gibson, a ...

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