Healthy Bones

Bone is living tissue, it is a self-renewing cellular tissue made up of a combination of living cells and a non-living matrix. Bone tissue is the hardest tissue in the body and is a vital part of the skeletal system.

Probiotics May Ease Gut Disorders

Probiotics may help ease gut disorders linked to long-term stress such as Crohn’s disease, a research suggests.

A team at Canadas McMaster University analyzed gut tissue taken from rats put in stressful situations. Animals fed drinking water containing probiotic bacteria showed less signs that harmful bugs were mobilizing to cause damage. The gut study suggests probiotic bacteria literally plug up holes, making the gut less permeable to harmful bugs.

Black Holes Are Green

Science

Black Holes Are Green

Black holes are regions of space where gravity is so strong that nothing, not even light, can escape. The event horizon is the boundary around a black hole beyond which nothing can escape. The event horizon is zero for those black holes that are stationary.

The researchers are trying to find out if there is a relationship between the black hole and the background light from the universe. This might help them to understand the nature of black holes.

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HIV Drug Creates Resistance

The individual cells responsible for producing new HIV inputs—the strong scent of a flowers and the light touch of a spring breeze—can cope with only a small amount of input. Yet the human ear can hear and process sounds ranging from a pin drop to the roar of a jet engine. Scientists have struggled to account for how this individual narrow range combines in a network to produce the wide range of sensed experience. Now, physicists have shown how the mathematical models that describe these phenomena in physical systems might also explain our capacity to hear, see, smell and taste and touch. According to sci.am, Mauro Copelli and Omid Kroo of the University of Sao Paulo in Brazil used a mathematical formula to show how a random network of “excitable elements,” such as neurons, have a collective response that is both exquisitely sensitive and broad in scope. When subtle stimuli hit the network, the sensory stimulus is amplified because of the ability of one neuron to excite its neighbor. When strong stimuli hit the network, the response is similarly amplified, following what are known as power laws—mathematical relationships that do not vary uniformly.

But although a mathematical model seems to fit a natural phenomenon, it does not necessarily follow that both are actually related, according to some scientists.

Robo-Turtle Answers Flipperty Questions

Robotic turtle could help engineers build better autonomous underwater vehicles. A new study suggests that build better autonomous underwater vehicles.

The turtle’s simple design makes it possible for scientists to estimate the EBL and the brightness of star fields. The turtle will be used to study the intergalactic background light (EBL).

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