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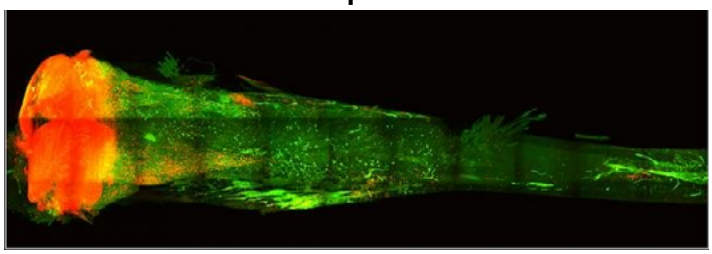
Notícias de Abril

Um gene único estimula o crescimento de células-tronco intestinais, mantendo o "nicho" celular e o câncer

Fonte: Johns Hopkins Medicine

A gene previously identified as critical for tumor growth in many human cancers also maintains intestinal stem cells and encourages the growth of cells that support them, according to results of a study. The finding adds to evidence for the intimate link between stem cells and cancer, and advances prospects for regenerative medicine and cancer treatments.
https://www.sciencedaily.com/releases/2017/04/170428083335.htm

Produzindo ossos transparentes



Fonte: California Institute of Technology

A new bone clearing technique is a breakthrough for testing osteoporosis drugs. The technique has promising applications for understanding how bones interact with the rest of the body.
https://www.sciencedaily.com/releases/2017/04/170426141716.htm

Regeneração de tecidos com dentes de camundongos

Fonte: University of California - San Francisco

Researchers hope to one day use stem cells to heal burns, patch damaged heart tissue, even grow kidneys and other transplantable organs from scratch.
https://www.sciencedaily.com/releases/2017/04/170427141653.htm

Genes precisam ser rastreados para transplantes de células-tronco

Fonte: Harvard University

As stem cell lines grow in a lab dish, they often acquire mutations in the TP53 (p53) gene, an important tumor suppressor responsible for controlling cell growth. New research findings suggest that genetic sequencing technologies should be used to screen for mutated cells in stem cell cultures, so that cultures with mutated cells can be excluded from experiments and therapies.
https://www.sciencedaily.com/releases/2017/04/170426131008.htm

Cientistas trabalhando em circuitos

Fonte: Stanford Medicine

Stanford investigators fused two stem-cell-derived neural spheroids, each containing a different type of human neuron, then watched as one set of neurons migrated and hooked up with the other set.
https://med.stanford.edu/news/all-news/2017/04/scientists-assemble-working-human-forebrain-circuits-in-lab-dish.html

Novos insights sobre desencadear a forma muscular

Fonte: Sanford-Burnham Prebys Medical Discovery Institute

A previously unrecognized step in stem cell-mediated muscle regeneration has now been discovered by scientists. The study provides new insights into the molecular mechanisms that impair muscle stem cells during the age-associated decline in muscle function, and into the connection between accelerated muscle aging and muscular dystrophies
https://www.sciencedaily.com/releases/2017/04/170425171655.htm

Descoberta Oferece nova esperança para reparar lesões da medula espinhal

Fonte: Gladstone Institutes

Scientists have created a special type of neuron from human stem cells that could potentially repair spinal cord injuries. These cells, called V2a interneurons, transmit signals in the spinal cord to help control movement. When the researchers transplanted the cells into mouse spinal cords, the interneurons sprouted and integrated with existing cells.
https://www.sciencedaily.com/releases/2017/04/170424152544.htm

Células - tronco para curar

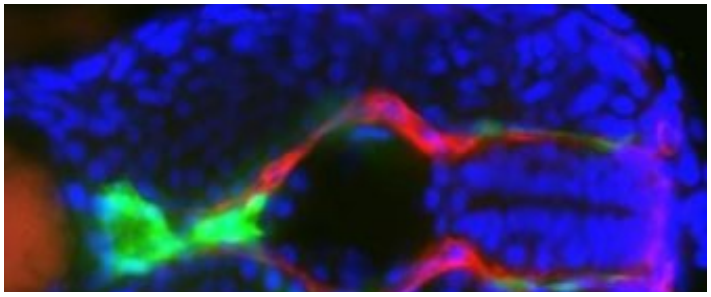
Accelerated healing isn't just for superheroes. A new study suggests a way that mere mortals can potentially speed their recovery from a wide variety of injuries.
Fonte: USC Stem Cell
https://www.sciencedaily.com/releases/2017/04/170418161901.htm

Roedores com defesas extraordinárias anti Câncer

Fonte: Hokkaido University

Scientists are getting closer to understanding how naked mole rats, the world's longest living rodent species, avoid cancer, which could lead to safer stem cell therapies for human diseases.
https://www.sciencedaily.com/releases/2017/04/170418115236.htm

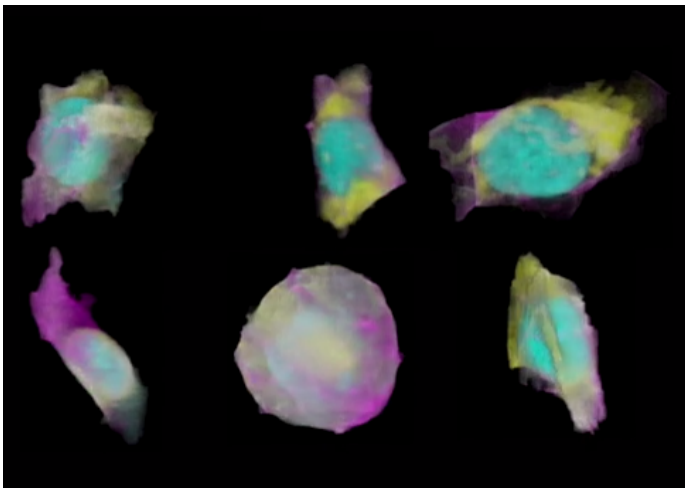
Vídeo revela células essenciais para o "nascimento" de células-tronco sanguíneas



Fonte: ScienceDaily

Scientists are getting closer to understanding how naked mole rats, the world's longest living rodent species, avoid cancer, which could lead to safer stem cell therapies for human diseases.
https://www.sciencedaily.com/releases/2017/04/170410110723.htm

3D ajuda na compreensão de células-tronco



Fonte: Nature

Website contains thousands of 3D stem cell images and could help with better understanding diseases like cancer.
http://www.nature.com/news/machine-learning-predicts-the-look-of-stem-cells-1.21769

"caça" ao câncer

Fonte: Nature

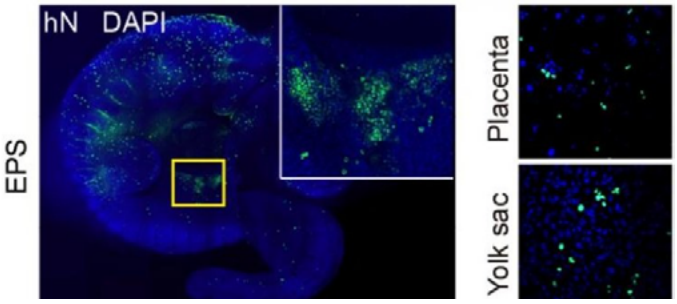
'Pre-cancer' genome atlas proposed to track tumours as they turn from benign to dangerous.
http://www.nature.com/news/hunt-for-cancer-tipping-point-heats-up-1.21759

Nova pesquisa sobre bloqueio de genes não neuronais em células nervosas

Fonte: Stanford Medicine

A regulatory protein actively blocks the expression of non-neuronal genes in nerve cells, according to new Stanford research. The finding suggests there are many master regulators to help cell types maintain their identities.
https://med.stanford.edu/news/all-news/2017/04/nerve-cells-actively--repress-alternative-cell-fates.html

Nova Técnica para regenerar qualquer tipo de tecido partir de células-tronco cultivadas



Fonte: ScienceDaily / Salk Institute

A new technique, which allows scientists to generate both embryonic and non-embryonic tissues from cultured stem cells, is a step toward growing donor organs and replacement tissues to combat aging and diseases.
https://www.sciencedaily.com/releases/2017/04/170406143944.htm

Eventos 2017

Curso: 4 a 15 de setembro

Células madre humanas reprogramadas (hIPS), generación, mantenimiento y caracterización básica - **Fundación Instituto Leloir, Buenos Aires, Argentina,** Coordenador: Fernando Pitossi.
http://www.mct.gov.br/index.php/content/view/328332.html#lista

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