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Instituto Nacional
de Ciência e Tecnologia
em Medicina Regenerativa

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Ano I - Edição 05 / Novembro 2017

Divulgação ISCT - *30/10/2017*

Sociedade Internacional de Terapia Celular divulga em português o posicionando a Comunidade Científica em Relação a Terapias Celulares não Comprovadas: Perspectiva 2015.

http://c.ymcdn.com/sites/www.celltherapysociety.org/resource/resmgr/ptf2017/PTF-Article-PG_v2_Final.pdf

International Society for Cellular Therapy
ISCT®

Prêmio / LCCM / UFRJ - *18/10/2017*

Pós-doc da UFRJ - Fernanda Mesquita foi agraciada com o Prêmio Paul Dudley White Scholar da American Heart Association (AHA), pelo trabalho:"INVESTIGATING MOLECULAR MECHANISMS OF TYPE 2 LONG QT SYNDROME WITH iPSC-DERIVED CARDIOMYOCYTES" realizado no Laboratório de Cardiologia Celular e Molecular – LCCM, do Instituto de Biofísica Carlos Chagas Filho na Biofísica.
Orientação: Profa. Adriana Bastos Carvalho
Colaboração: Instituto Nacional de Cardiologia - INC.
Será apresentado oralmente no Congresso Anual da AHA.

Notícias do cenário mundial sobre Medicina Regenerativa - Setembro e Outubro

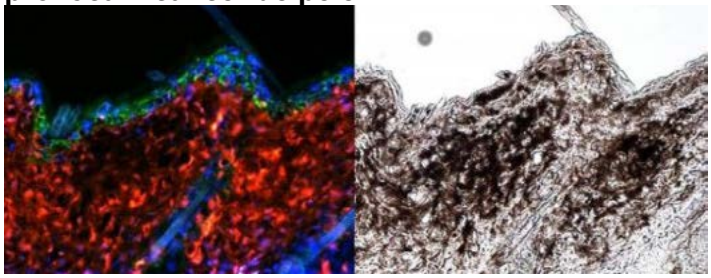
Detalhes descobertos no desenvolvimento de célula imune implicada no câncer e doenças auto-imunes

Fonte: UNC Lineberger Comprehensive Cancer Center
Scientists now understand new details about the ...
https://www.sciencedaily.com/releases/2017/10/171026135209.htm

Descoberto método para acelerar a maturação de células-tronco para formar neurônios

Fonte: Johannes Gutenberg Universitaet Mainz
Researchers have developed a promising technique that will facilitate the differentiation of stem cells into neurons.
https://www.sciencedaily.com/releases/2017/10/171025150617.htm

Novas descobertas explicam como os raios UV provocam câncer de pele

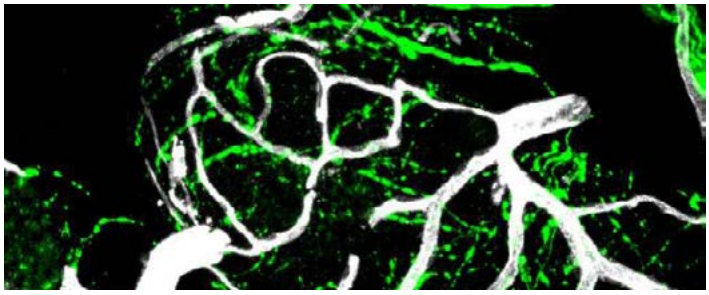


Fonte: Cornell University
Melanoma, a cancer of skin pigment cells called melanocytes, will strike an estimated 87,110 people in the US in 2017.
https://www.sciencedaily.com/releases/2017/10/171018121657.htm

As células-tronco não estão diretamente envolvidas na regeneração da Cartilagem

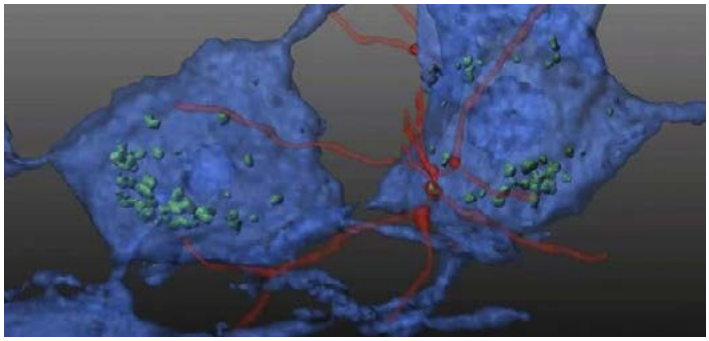
Fonte: Veterinärmedizinische Universität
Stem cell therapy has great potential for curing cartilage damage. However, it has remained unclear whether stem cells are responsible for regeneration or whether they ...
https://www.sciencedaily.com/releases/2017/10/171031085434.htm

Estudo mostra como os nervos contribuem para o câncer de próstata



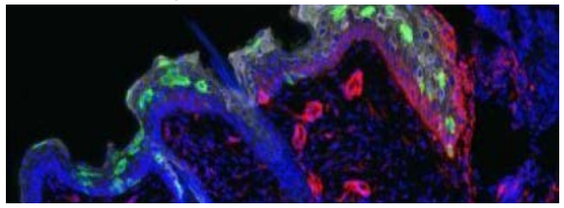
Fonte: MedicalXpress
In a study in today's issue of Science, researchers at Albert Einstein College of Medicine, part of Montefiore Medicine...
https://medicalxpress.com/news/2017-10-nerves-prostate-cancer.html

As células-tronco hematopoiéticas quando transplantadas reparam danos causados por distúrbios neuro-musculares



Fonte: University of California - San Diego
A single infusion of wildtype hematopoietic stem and progenitor cells (HSPCs) into a mouse model of Friedreich's ataxia (FA) measurably halted cellular damage caused by the degenerative disease, researchers report.
https://www.sciencedaily.com/releases/2017/10/171026085801.htm

A inflamação condiciona a pele para que a cicatrização seja mais rápida



Fonte:Rockefeller University

Stem cells in the skin remember an injury, helping them close recurring wounds faster, researchers have found.

https://www.sciencedaily.com/releases/2017/10/171018132831.htm

Células de suporte inflamadas contribuem para alguns tipos de autismo

Fonte: University of California San Diego Health

Modeling the interplay between neurons and astrocytes derived from children with Autism Spectrum Disorder (ASD)

https://www.sciencedaily.com/releases/2017/10/171018190857.htm

A estrutura 3D do DNA regula a identidade celular

fonte: University of Pennsylvania School of Medicine

A team of researchers has tracked down the cellular origin of cutaneous melanoma, the deadliest form of skin cancer.

https://www.sciencedaily.com/releases/2017/10/171012151800.htm

A maneira pela qual o cérebro se desenvolve antes do nascimento é intimamente controlada por modificação do RNA

Fonte:University of Pennsylvania School of Medicine

A chemical tag added to RNA during embryonic development regulates how the early brain grows.

https://www.sciencedaily.com/releases/2017/09/170928121706.htm

Após ataque cardíaco: como o tecido fibrosado pode se tornar músculo cardíaco saudável?

Fonte: University of North Carolina Health Care System

Scientists are exploring ways to reprogram scar tissue cells into healthy heart muscle cells...

https://www.sciencedaily.com/releases/2017/09/170926135549.htm

Compostos obtidos de plantas podem inibir células-tronco cancerígenas

Fonte: Lund University

Lab experiments show that the chemical compound damsin found in the plant Ambrosia arborescens inhibits the growth and spread of cancer stem cells. The similar but synthetically produced ambrosin has the same positive effect.

https://www.sciencedaily.com/releases/2017/09/170927093304.htm

Reparo de longa duração de vasos sanguíneos em animais através de células-tronco

Fonte: Emory Health Sciences

Stem cell researchers have made an advance toward having a long-lasting “repair caulk” for blood vessels.

https://www.sciencedaily.com/releases/2017/10/171023145547.htm

Oferecendo ao coração o que importa: nanogéis para paciente que sofreram ataque cardíaca

Fonte: American Chemical Society

https://www.sciencedaily.com/releases/2017/09/170920100008.htm

Salvando corações após ataques cardíacos: Super-expressão de um gene aumenta reparo do músculo

Fonte: University of Alabama at Birmingham

Biomedical engineers report a significant advance in efforts to repair a damaged heart after a heart attack, using grafted heart-muscle cells to create a repair patch.

https://www.sciencedaily.com/releases/2017/10/171017091910.htm

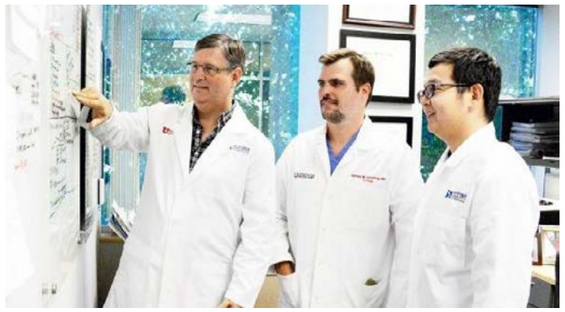
Reforço das células de gordura oferece um potencial novo para o tratamento da leucemia

Fonte: McMaster University

Killing cancer cells indirectly by powering up fat cells in the bone marrow could help acute myeloid leukemia patients, says a new study.

https://www.sciencedaily.com/releases/2017/10/171016122159.htm

Novas pesquisas sobre as células-tronco do esperma tem implicações na infertilidade masculina e câncer



Fonte: University of Utah Health

Scientists have shed light on the complex process that occurs in the development of human sperm stem cells.

https://www.sciencedaily.com/releases/2017/10/171005141727.htm

Novo modelo para forma de cegueira difícil de estudar abre caminho para novas pesquisas

Researchers have created the first patient-derived laboratory model of macular degeneration, the leading cause of vision loss in older adults.

Fonte: University of Rochester Medical Center

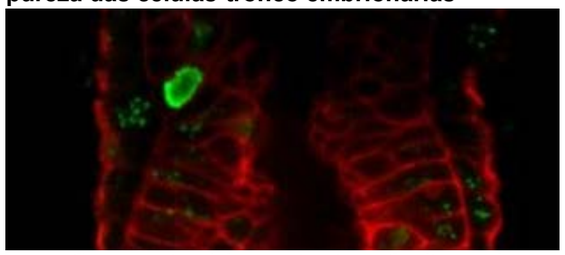
https://www.sciencedaily.com/releases/2017/09/170906170129.htm

Quantidade de água nas células-tronco pode determinar sua diferenciação para gordura ou osso

Fonte :University at Buffalo

https://www.sciencedaily.com/releases/2017/09/170926125131.htm

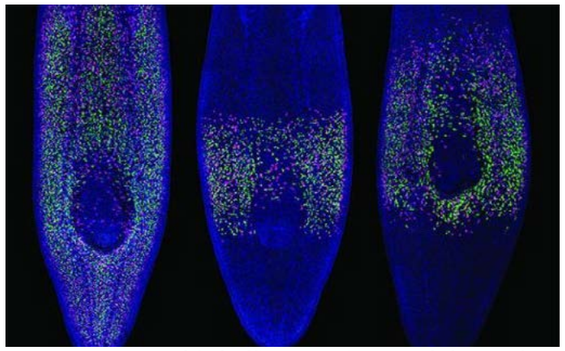
Um sistema de “controle social” garante a pureza das células-tronco embrionárias



Fonte: Centro Nacional de Investigaciones Cardiovasculares

https://www.sciencedaily.com/releases/2017/09/170925104738.htm

Planárias podem ser usadas para estudar a migração das células-tronco no câncer



Fonte: University of OxfordSummary:A new study has used

A new study has used flat worms to look at the role of migrating stem cells in cancer.

https://www.sciencedaily.com/releases/2017/10/171003093938.htm

A proteína TAZ envia sinais mistos para as células-tronco

Just as beauty exists in the eye of the beholder, a signal depends upon the interpretation of the receiver.

Fonte: University of Southern California - Health Sciences

https://www.sciencedaily.com/releases/2017/09/170906103516.htm

Prostaglandina EI inibe células-tronco leucêmicas

Targeting leukemia stem cells in combination with standard chemotherapy may improve treatment for chronic myeloid leukemia

Fonte: University of Iowa Health Care

https://www.sciencedaily.com/releases/2017/09/170925151436.htm

Mecanismos Responsáveis pela perda óssea associada com idade

A major health problem in older people is age-associated osteoporosis -- the thinning of bone and the loss of bone density that increases the risk of fractures.

Fonte: University of Alabama at Birmingham

https://www.sciencedaily.com/releases/2017/09/170922150535.htm

A produção de células chave do diabetes pode ser melhorada

In the future diabetics might benefit from getting insulin-regulating beta cells transplanted into their body because their own beta cells are destroyed or less functional.

Fonte: University of Copenhagen The Faculty of Health and Medical Sciences

https://www.sciencedaily.com/releases/2017/09/170921101748.htm

Chip em forma de labirinto pode ajudar a monitorar células-tronco cancerosas agressivas

Inspired by the Labyrinth of Greek mythology, a new chip etched with fluid channels...

Fonte: University of Michigan

https://www.sciencedaily.com/releases/2017/09/170921161245.htm

Processo Inflamatório é necessário para regeneração do tecido olfatório

In a mouse study designed to understand how chronic inflammation in sinusitis damages the sense of smell, scientists say they were surprised to learn that the regeneration ...

Fonte: Johns Hopkins Medicine

https://www.sciencedaily.com/releases/2017/08/170830094231.htm

Pesquisadores descobrem que telômetros encurtados estão relacionados com distrofia muscular de Duchenne

A discovery about muscular dystrophy disorders has been made that suggests new possibilities for treatment.

Fonte: University of Pennsylvania School of Medicine

https://www.sciencedaily.com/releases/2017/09/170907132530.htm

Células-tronco do cordão umbilical demonstram benefícios no tratamento da insuficiência cardíaca

Intravenous stem cell infusion derived from umbilical cords appears to boost heart muscle function in patients with heart failure.

fonte:American Heart Association

https://www.sciencedaily.com/releases/2017/09/170926162309.htm

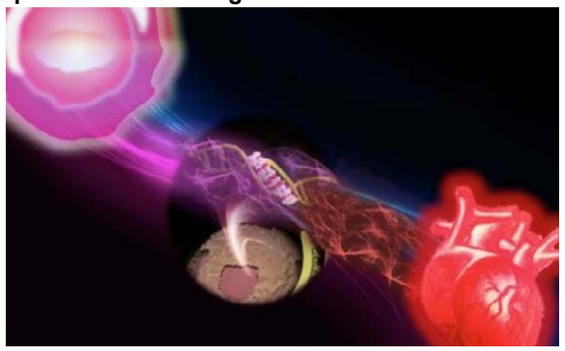
Modelo celular de cérebro provê novos conhecimentos para doenças do desenvolvimento

By reprogramming skin cells into nerve cells, researchers are creating cell models of the human brain. In a new study, the researchers describe how cells from patients with the severe developmental disease lissencephaly differ from healthy cells.

Fonte: Karolinska Institutet

https://www.sciencedaily.com/releases/2017/09/170919092629.htm

Regeneração tecidual com moléculas sintéticas que reconhecem seguências de DNA



Fonte: Kyoto University

https://www.sciencedaily.com/releases/2017/09/170925095501.htm

Haplobank: um biobanco de células-tronco embrionárias com mutações reversíveis

Scientist have developed a biobank of revertible, mutant embryonic stem cells – called Haplobank - which contains over 100,000 mutated, conditional mouse embryonic stem cell lines, targeting about 70% of the protein-coding genome.

Fonte: Institute of Molecular Biotechnology (IMBA)
https://www.sciencedaily.com/releases/2017/09/170927133827.htm

Mapa fenogenético criado para células-tronco modela doenças neurológicas

In an effort to better understand neurological diseases like Alzheimer's, Parkinson's and ALS - and develop new ways to treat them - researchers at The Ohio State University...

Fonte: MedicalXpress
https://medicalxpress.com/news/2017-10-phenogenetic-stem-cells-neurological-diseases.html

Reprogramação de fora para dentro: Estudos com anticorpos sugerem uma melhor maneira de produzir células-tronco

A new approach to the 'reprogramming' of ordinary adult cells into stem cells has been uncovered by scientists.

Fonte: Scripps Research Institute
https://www.sciencedaily.com/releases/2017/09/170911122610.htm

Em camundongos, restrição calórica reduz gordura mas aumenta os pelos

Calorie restriction may help mice stay slim and live longer, but it also means less fat to keep their bodies warm Researchers in Brazil have found that mouse skin responds to caloric restriction by stimulating fur growth, increasing blood flow, and altering cell metabolism to increase energy efficiency.

Fonte: Cell Press
https://www.sciencedaily.com/releases/2017/09/170912134817.htm

Os cientistas identificam a surpreendente origem do melanoma

A team of researchers has tracked down the cellular origin of cutaneous melanoma, the deadliest form of skin cancer. The team was surprised to observe that these very aggressive tumors arise from mature, pigment-producing cells called melanocytes

Fonte: VIB (the Flanders Institute for Biotechnology)
https://www.sciencedaily.com/releases/2017/10/171012143402.htm

Eventos 2017 e 2018

Para abrir os links, clique nas imagens

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