

Artigos recém publicados pelo Grupo INCT- Regenera em 2018

- A sensitivity analysis for tissue development by varying model parameters and input variables. [doi: 10.1002/cjce.23171](https://doi.org/10.1002/cjce.23171)
- Genotoxicity and osteogenic potential of sulfated polysaccharides from *Caulerpa prolifera* seaweed. [doi: doi.org/10.1016/j.ijbiomac.2018.03.132](https://doi.org/10.1016/j.ijbiomac.2018.03.132)
- Strategies to improve the therapeutic effects of mesenchymal stromal cells in respiratory diseases. [doi: 10.1186/s13287-018-0802-8](https://doi.org/10.1186/s13287-018-0802-8)
- Embryonic stem cell-derived cardiomyocytes for the treatment of doxorubicin-induced cardiomyopathy. [doi: 10.1186/s13287-018-0788-2](https://doi.org/10.1186/s13287-018-0788-2)
- Stem cell therapy in ST-elevation myocardial infarction with reduced ejection fraction: a multicenter, double-blind randomized trial. [doi: 10.1002/cjc.22882](https://doi.org/10.1002/cjc.22882)
- Topical Dexamethasone Administration Impairs Protein Synthesis and Neuronal Regeneration in the Olfactory Epithelium. doi.org/10.3389/fnmol.2018.00050
- Mesenchymal stem cell cultivation in electrospun scaffolds: mechanistic modeling for tissue engineering. [doi: 10.1007/s10867-018-9482-y](https://doi.org/10.1007/s10867-018-9482-y)

Notícias do cenário mundial sobre Medicina Regenerativa - Janeiro/Fevereiro

Novas idéias sobre como o intestino se repara

Fonte: *Baylor College of Medicine*

Researchers propose that, contrary to the current thinking, how the intestine repairs itself seems to depend on the type of damage, and they found that triggers that were previously thought to be unimportant are actually essential for repairing rotavirus-caused injury. <https://www.sciencedaily.com/releases/2018/01/180129131321.htm>

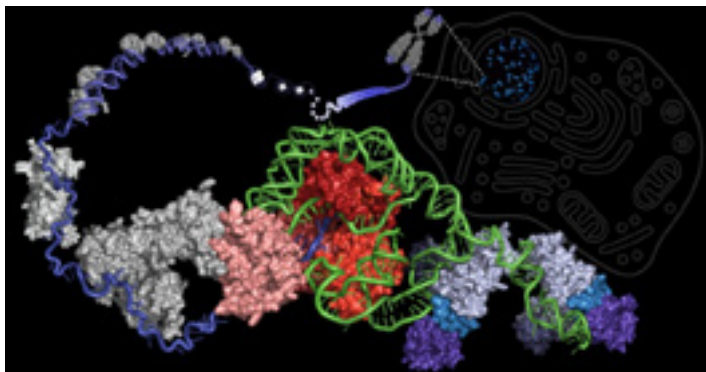
A deficiência de vitaminas “coloca as células cancerosas em hibernação”

Fonte: *University of Salford*

A new potential therapeutic agent called DPI effectively switches off cancer stem cells, preventing their proliferation, according to new research.

<https://www.sciencedaily.com/releases/2018/01/180129145837.htm>

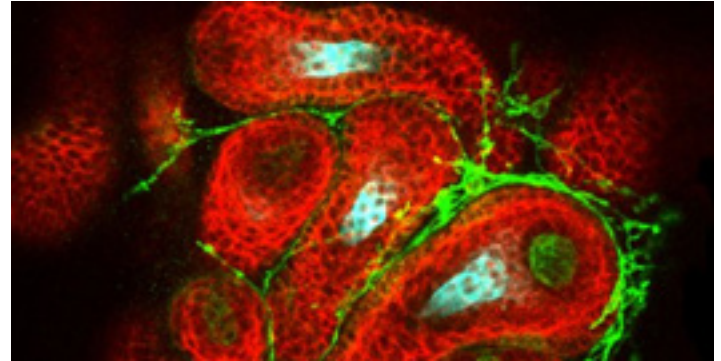
Enzima telomerase esconde segredo de imortalidade



Fonte: *Arizona State University*

<https://www.sciencedaily.com/releases/2018/02/180227142114.htm>

De forma inédita, pesquisadores cultivam pele com pelos em placa de cultura.



Fonte: *Indiana University*

Researchers have successfully developed a method to grow hairy skin from mouse pluripotent stem cells -- a discovery that could lead to new approaches to model disease and new therapies for the treatment of skin disorders and cancers.

<https://www.sciencedaily.com/releases/2018/01/180105123912.htm>

A síndrome de Prader-Willi foi inibida em células cerebrais cultivadas em laboratório

Fonte: *University of Connecticut*

A new potential therapeutic agent called DPI effectively switches off cancer stem cells, preventing their proliferation, according to new research.

<https://www.sciencedaily.com/releases/2018/01/180125120448.htm>

Cientistas descobrem células-tronco que formam o sistema nervoso de moscas

Fonte: *The Zuckerman Institute at Columbia University*

<https://www.sciencedaily.com/releases/2018/01/180125135604.htm>

Novas descobertas podem impulsionar os tratamentos com células-tronco neurais para doenças cerebrais.

Fonte: *Sanford-Burnham Prebys Medical Discovery Institute*

<https://www.sciencedaily.com/releases/2018/01/180124100540.htm>

Pela primeira vez cientistas cultivam células-tronco da placenta humana

Fonte: *Tohoku University*

<https://www.sciencedaily.com/releases/2018/01/180124100552.htm>

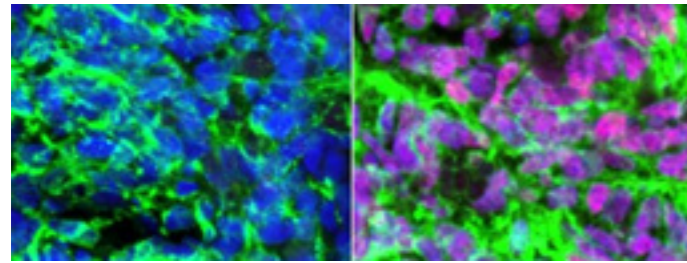
O estudo sobre a gripe aumenta a compreensão da imunidade inata

Fonte: *NIH/National Institute of Allergy and Infectious Diseases*

People with higher levels of antibodies against the stem portion of the influenza virus hemagglutinin (HA) protein have less viral shedding when they get the flu, but don't have fewer or less severe signs of illness, according to a new study. This study is the first of its kind to evaluate pre-existing levels of these antibodies as a predictor of protection against influenza. The findings could have implications for flu vaccine development.

<https://www.sciencedaily.com/releases/2018/01/180123101937.htm>

Cientistas produzem células que permitem o sensação de toque



Fonte: University of California - Los Angeles Health Sciences
<https://www.sciencedaily.com/releases/2018/01/180111141555.htm>

O gene HLF controla a geração de nosso sistema imune de longo prazo

Fonte: Lund University
<https://www.sciencedaily.com/releases/2017/11/171122103537.htm>

Investigação de padrões de degeneração na doença de Alzheimer

Fonte: Brigham and Women's Hospital
<https://www.sciencedaily.com/releases/2017/11/171117141728.htm>

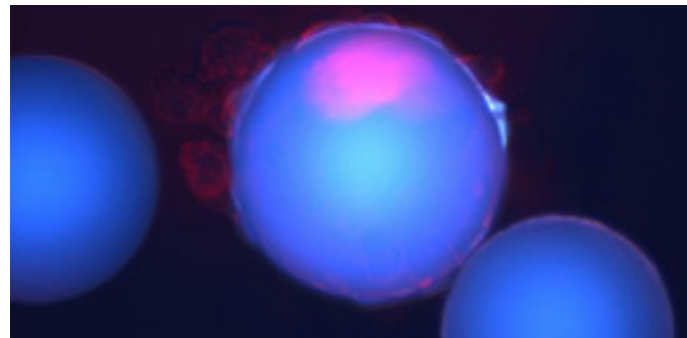
A deleção de um fator de células tronco promove a recuperação de lesões traumáticas cerebrais em camundongos

Fonte: UT Southwestern Medical Center
<https://www.sciencedaily.com/releases/2017/11/171117195341.htm>

Astrócitos cerebrais são relacionados à doença de Alzheimer

Fonte: University of Eastern Finland
<https://www.sciencedaily.com/releases/2017/11/171117103740.htm>

Cientistas descobrem um novo método para isolar células-tronco de câncer



Source: University of Texas at Dallas
<https://www.sciencedaily.com/releases/2018/02/180222162126.htm>

Problemas de circulação relacionados ao diabetes podem ser resolvidos pelas Células-tronco do músculo

Fonte: University of Illinois at Urbana-Champaign
<https://www.sciencedaily.com/releases/2017/11/171106121258.htm>

Por que o câncer testicular é tão sensível à quimioterapia?

Fonte: Cornell University
<https://www.sciencedaily.com/releases/2017/11/171114123010.htm>

Um código de barras celular ajuda cientistas entenderem o comportamento das células-tronco

Fonte: NIH/National Heart, Lung and Blood Institute
<https://www.sciencedaily.com/releases/2018/01/180103160145.htm>

Como o álcool danifica o DNA e aumenta o risco de câncer

Fonte: Cancer Research UK
<https://www.sciencedaily.com/releases/2018/01/180103132629.htm>

As células-tronco no revestimento intestinal podem esclarecer o comportamento das células cancerosas

Fonte: University of Illinois College of Agricultural, Consumer and Environmental Sciences
<https://www.sciencedaily.com/releases/2017/11/171127152044.htm>

Foi identificado, o gene responsável pela multipotencialidade das células tronco mesenquimais

Fonte: Scripps Research Institute
<https://www.sciencedaily.com/releases/2018/01/180122145931.htm>

Sinalização das proteínas hedgehog mantém células cancerosas vivas

Fonte: Charité - Universitätsmedizin
<https://www.sciencedaily.com/releases/2018/01/180119113516.htm>

A pesquisa sobre o câncer fornece pistas sobre a diversificação dos animais na terra

Fonte: Lund University
<https://www.sciencedaily.com/releases/2018/01/180118162458.htm>

Um potencializador genético modular promove leucemia e regula a eficiência da quimioterapia

Fonte: German Cancer Research Center (Deutsches Krebsforschungszentrum, DKFZ)
<https://www.sciencedaily.com/releases/2018/01/180117131156.htm>

Matemática pode prever como as células cancerosas evoluem

Fonte: University of Waterloo
<https://www.sciencedaily.com/releases/2018/01/180116085000.htm>

Um estudo sobre esclerodermia: esperança para uma vida mais longa para pacientes com doença autoimune rara.

Fonte: University of Virginia Health System
<https://www.sciencedaily.com/releases/2018/01/180112132933.htm>

A reprogramação de células do sistema imune inato pode combater a tuberculose

Fonte: McGill University
<https://www.sciencedaily.com/releases/2018/01/180111141627.htm>

Foi descoberto um novo método para estudar doença cardíaca usando células-tronco

Fonte: Morgridge Institute for Research
<https://www.sciencedaily.com/releases/2018/01/180109124957.htm>

O transplante de células-tronco é melhor do que a terapia com medicamentos para esclerodermia

Fonte: Duke University Medical Center
Scleroderma with internal organ involvement is a debilitating and lethal autoimmune disorder with few effective treatments.
<https://www.sciencedaily.com/releases/2018/01/180105173311.htm>

Teve início o ensaio clínico fase III para regeneração de cartilagem utilizando células-tronco

Fonte: Osaka University
<https://www.sciencedaily.com/releases/2018/01/180104124109.htm>

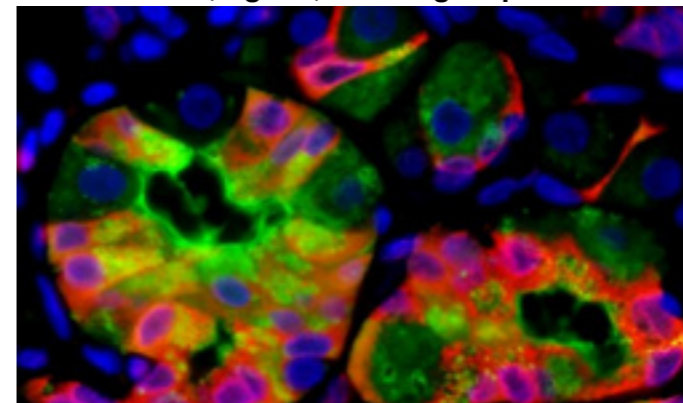
Células tronco de pluripotência induzida mostram o impacto da interação astrócito-neurônio na patologia cerebral associada ao autismo

Fonte: Elsevier
Using human induced pluripotent stem cells to model autism spectrum disorder, researchers have revealed for the...
<https://www.sciencedaily.com/releases/2017/11/171109130746.htm>

Degradação anormal de proteína promove leucemia e cancer cerebral

Fonte: German Cancer Research Center
<https://www.sciencedaily.com/releases/2017/11/171108132040.htm>

Semelhanças são encontradas no início do câncer no rim, fígado, estômago e pâncreas



Fonte: Washington University School of Medicine
Researchers have found that when mature cells transition to begin dividing again, they all seem to do it the same way, regardless of what organ those cells come from.
<https://www.sciencedaily.com/releases/2018/02/180221091313.htm>

Encontrado o elo perdido nas vias envolvidas com o desenvolvimento celular

Fonte: Wellcome Trust Sanger Institute
<https://www.sciencedaily.com/releases/2018/02/180228131112.htm>

Células-tronco pancreáticas únicas possuem potencial para regenerar células beta que respondem a glicose

Fonte: Diabetes Research Institute Foundation
<https://www.sciencedaily.com/releases/2018/02/180227142108.htm>

O estudo de células-tronco pode resultar em músculos mais fortes no envelhecimento

Fonte: Karolinska Institutet
<https://www.sciencedaily.com/releases/2018/02/180223111546.htm>

Amutação pode explicar porque algumas pessoas são mais vulneráveis a infecção viral no cérebro

Scientists identified mutations in a single gene that impair immunity to viruses in a region of the brain called the brain stem.
Fonte: Rockefeller University
<https://www.sciencedaily.com/releases/2018/02/180222171407.htm>

Tratamento com células-tronco reprogramadas pode aliviar os sintomas da esclerose múltipla

Fonte: University of Cambridge
<https://www.sciencedaily.com/releases/2018/02/180221451111.htm>

A pesquisa sobre o câncer fornece pistas sobre a diversificação dos animais na terra



Fonte: Lund University
<https://www.sciencedaily.com/releases/2018/01/180118162458.htm>

Descobertas podem reduzir os riscos dos transplantes

Fonte: University of Erlangen-Nuremberg
<https://www.sciencedaily.com/releases/2018/02/180221122855.htm>

À procura das origens da esquizofrenia

Fonte: D'Or Institute for Research and Education
<https://www.sciencedaily.com/releases/2018/02/180222145045.htm>

Pistas para o envelhecimento são encontrados no genoma das células-tronco

Fonte: Howard Hughes Medical Institute
<https://www.sciencedaily.com/releases/2018/02/180213084322.htm>

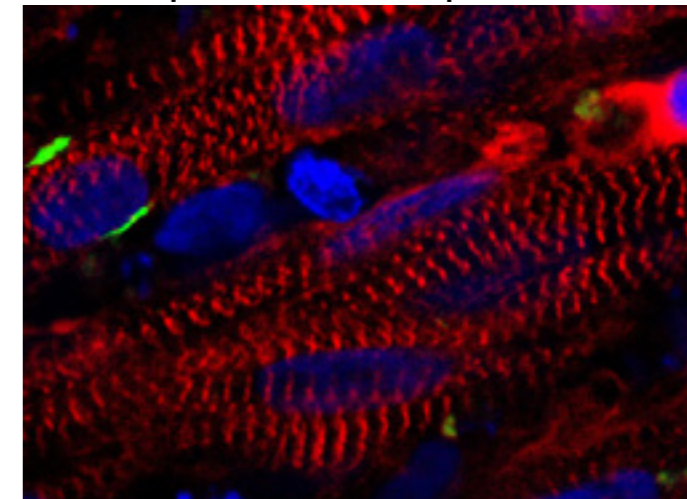
Pela primeira vez foram detectadas divisões de células-tronco no cérebro adulto

Fonte: University of Zurich
<https://www.sciencedaily.com/releases/2018/02/180208141315.htm>

Como as células-tronco cancerígenas geram o câncer de mama triplo-negativo

Fonte: Cleveland Clinic
<https://www.sciencedaily.com/releases/2018/02/180208084816.htm>

Engenheiros produzem músculo humano funcional partir de células da pele



Fonte: Duke University
Engineers have grown the first functioning human muscle from non-muscle cells -- skin cells reverted to their primordial stem cell state. The ability to start from cellular scratch using non-muscle tissue will allow scientists to grow far more muscle cells, provide an easier path to genome editing and cellular therapies, and develop individually tailored models of rare muscle diseases for drug discovery and basic biology studies.
<https://www.sciencedaily.com/releases/2018/01/180109104707.htm>

Sensor versátil contra células iniciadoras de tumores

Fonte: Institute for Basic Science
<https://www.sciencedaily.com/releases/2018/02/180207120654.htm>

A relação tóxica entre ELA e demência frontotemporal

Fonte: University of Southern California - Health Sciences
<https://www.sciencedaily.com/releases/2018/02/180205113100.htm>

A eliminação das células-tronco do glioblastoma poderia melhorar a sobrevivência do paciente

Fonte: Dartmouth-Hitchcock Medical Center
<https://www.sciencedaily.com/releases/2018/02/180205113026.htm>

A descoberta de uma molécula pequena que pode fazer uma grande diferença para os pacientes com artrite

Fonte: University of Southern California - Health
<https://www.sciencedaily.com/releases/2018/02/180207101714.htm>

As primeiras células-tronco usando a ativação do genoma por CRISPR são criadas por pesquisadores

Fonte: Gladstone Institutes

<https://www.sciencedaily.com/releases/2018/01/180118162449.htm>

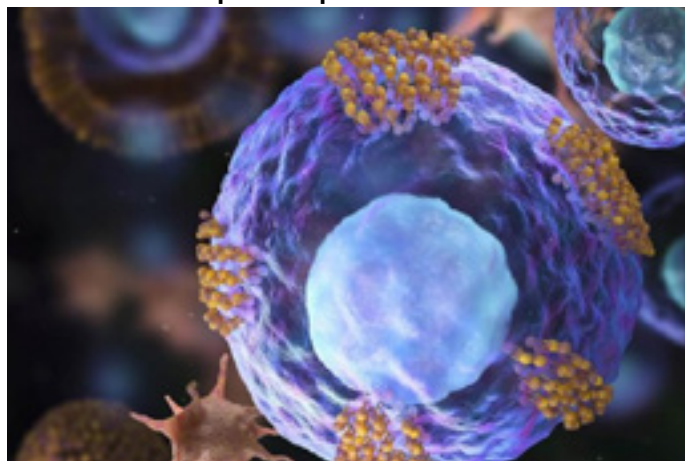
Descoberta faz com que a terapia com células-tronco para doenças oculares fique mais próxima da clínica

Fonte: NIH/National Eye Institute

Scientists report that tiny tube-like protrusions called primary cilia on cells of the retinal pigment epithelium (RPE) -- a layer of cells in the back of the eye -- are essential for the survival of the retina's light-sensing photoreceptors.

<https://www.sciencedaily.com/releases/2018/01/180103123057.htm>

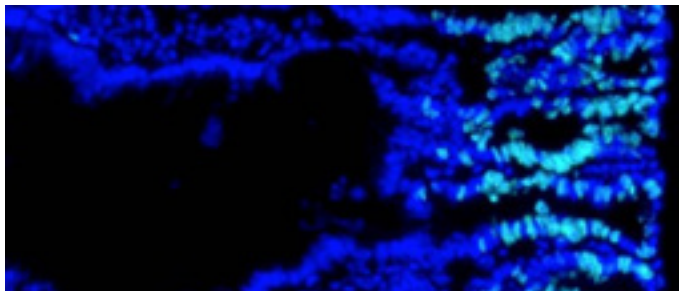
Células-tronco ancoradas com nanovesículas poderiam ser mais eficiente para o reparo cardíaco



Fonte : North Carolina State University

<https://www.sciencedaily.com/releases/2018/01/180110120206.htm>

Estudo procura explicar o vínculo entre o colesterol alto e o câncer do colon



Fonte: University of California - Los Angeles Health Sciences

Scientists discovered that boosting mice's cholesterol levels spurred intestinal stem cells to divide more quickly, enabling tumors to form 100 times faster. The study identifies a molecular pathway that could serve as a new drug target for colon cancer treatment.

<https://www.sciencedaily.com/releases/2018/01/180125135551.htm>

Novo modelo de camundongo possui células-tronco especificamente marcadas em verde

Fonte: Universität Bonn

<https://www.sciencedaily.com/releases/2018/02/180201173107.htm>

Novo arcabouço tridimensional para cultivar células musculares

Fonte: RMIT University

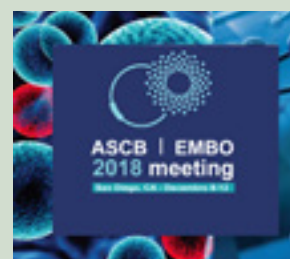
<https://www.sciencedaily.com/releases/2018/02/180220143520.htm>

Avanço na produção de tecido intestinal e hepático geneticamente estável

Fonte: Cincinnati Children's Hospital Medical Center

<https://www.sciencedaily.com/releases/2018/02/180208141249.htm>

Eventos 2018 (Para abrir os links, clique nas imagens)



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