

# Stem Cell Science Resources for Teachers

## Websites for general information

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NIH (National Institutes of Health)

<http://stemcells.nih.gov/info/basics>

<http://stemcells.nih.gov/index.asp>

NHGRI (National Human Genome Research Institute)

<http://www.genome.gov/10004765>

<http://www.genome.gov/25020028>

Harvard Stem Cell Institute

<http://www.hsci.harvard.edu/node/1503>

Whitehead Institute

[http://www.whitehead.mit.edu/news/ontopic/stem\\_cells/stemcells.html](http://www.whitehead.mit.edu/news/ontopic/stem_cells/stemcells.html)

National Academy of Science

<http://dels.nas.edu/bls/stemcells/booklet.shtml>

HHMI (Howard Hughes Medical Institute)

[http://www.hhmi.org/resources/science\\_now/stem\\_cells.html](http://www.hhmi.org/resources/science_now/stem_cells.html)

PBS NovaScienceNOW

<http://www.pbs.org/wgbh/nova/sciencenow/3209/04.html>

ISSCR (International Society for Stem Cell Research)

<http://isscr.org/science/faq.htm>

<http://isscr.org/public/index.htm>

Scientific American

<http://www.sciam.com/topic.cfm?id=stem-cell-research>

The 2007 Nobel Prize

[http://nobelprize.org/nobel\\_prizes/medicine/laureates/2007/info.html](http://nobelprize.org/nobel_prizes/medicine/laureates/2007/info.html)

Learn Genetics: Genetic Science Learning Center

<http://learn.genetics.utah.edu/content/tech/stemcells/>

CNN.com

<http://www.cnn.com/SPECIALS/2001/stemcell/>

Univeristy of Wisconsin: Why Files

<http://whyfiles.org/288stemcell10/>

## Nature Reports

<http://www.nature.com/stemcells/basics.html>

## Animations

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### HHMI (Howard Hughes Medical Institute)

<http://www.hhmi.org/biointeractive/stemcells/animations.html>

### Dolan DNA Learning Center

[http://www.dnalc.org/ddnalc/resources/stem\\_cells.html](http://www.dnalc.org/ddnalc/resources/stem_cells.html)

### Sumanas Inc

[http://www.sumanasinc.com/webcontent/animations/content/stemcells\\_scnt.html](http://www.sumanasinc.com/webcontent/animations/content/stemcells_scnt.html)

### University of Michigan

<http://www.umich.edu/stemcell/tutorial/>

### Riken Center for Developmental Biology

<http://www.cdb.riken.jp/jp/stemcells/>

### PBS Newshour

[http://www.pbs.org/newshour/health/stem\\_cell\\_animation.html](http://www.pbs.org/newshour/health/stem_cell_animation.html)

## Lesson Plans

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### Stem Cell Network: Project Engage curriculum module

<http://www.stemcellnetwork.ca/engage.php>

### NWABR (Northwest Association for Biomedical Research): set of five lessons

[http://www.stemcellresources.org/teach\\_curriculum.html](http://www.stemcellresources.org/teach_curriculum.html)

An overview of the whole unit is available here: [http://www.nwabr.org/education/pdfs/STEM\\_CELL\\_PDF/Overview.pdf](http://www.nwabr.org/education/pdfs/STEM_CELL_PDF/Overview.pdf)

### New York Times Learning Network

[http://www.nytimes.com/learning/teachers/lessons/20051018tuesday.html?searchpv=learning\\_lessons](http://www.nytimes.com/learning/teachers/lessons/20051018tuesday.html?searchpv=learning_lessons)

[http://www.nytimes.com/learning/teachers/lessons/20050803wednesday.html?searchpv=learning\\_lessons](http://www.nytimes.com/learning/teachers/lessons/20050803wednesday.html?searchpv=learning_lessons)

[http://www.nytimes.com/learning/teachers/lessons/20020924tuesday.html?searchpv=learning\\_lessons](http://www.nytimes.com/learning/teachers/lessons/20020924tuesday.html?searchpv=learning_lessons)

[http://www.nytimes.com/learning/teachers/lessons/20011218tuesday.html?searchpv=learning\\_lessons](http://www.nytimes.com/learning/teachers/lessons/20011218tuesday.html?searchpv=learning_lessons)

[http://www.nytimes.com/learning/teachers/lessons/20001107tuesday.html?searchpv=learning\\_lessons](http://www.nytimes.com/learning/teachers/lessons/20001107tuesday.html?searchpv=learning_lessons)

### PBS Newshour

[http://www.pbs.org/newshour/extra/teachers/lessonplans/science/adult\\_stemcell.html](http://www.pbs.org/newshour/extra/teachers/lessonplans/science/adult_stemcell.html)

<http://www.pbs.org/newshour/extra/teachers/lessonplans/august01/stemcells/>

[http://www.pbs.org/newshour/extra/teachers/lessonplans/science/clone\\_2-17.html](http://www.pbs.org/newshour/extra/teachers/lessonplans/science/clone_2-17.html)  
[http://www.pbs.org/newshour/extra/teachers/lessonplans/history/stemcell\\_5-30.html](http://www.pbs.org/newshour/extra/teachers/lessonplans/history/stemcell_5-30.html)

#### National Center for Case Study Teaching in Science

<http://www.sciencecases.org/cornea/cornea1.asp>  
[http://www.sciencecases.org/stem\\_cells/stem\\_cells.asp](http://www.sciencecases.org/stem_cells/stem_cells.asp)  
[http://www.sciencecases.org/gehrigs\\_disease/gehrigs\\_disease.asp](http://www.sciencecases.org/gehrigs_disease/gehrigs_disease.asp)

## Lab Experiments

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#### Howard Hughes Medical Institute: Planaria regeneration lab

[http://www.hhmi.org/biointeractive/activities/planaria/planaria\\_regen\\_activity.pdf](http://www.hhmi.org/biointeractive/activities/planaria/planaria_regen_activity.pdf)  
<http://www.hhmi.org/biointeractive/activities/index.html>

#### NWABR: Planaria regeneration lab

[http://www.nwabr.org/education/pdfs/STEM\\_CELL\\_PDF/Planaria\\_Teacher.pdf](http://www.nwabr.org/education/pdfs/STEM_CELL_PDF/Planaria_Teacher.pdf)

## Video and Audio Clips

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#### EuroStemCell: four films

<http://www.eurostemcell.org/films>

#### Howard Hughes Medical Institute: “Potent Biology: Stem Cells, Cloning, and Regeneration”

<http://www.hhmi.org/biointeractive/stemcells/video.html>  
<http://www.hhmi.org/biointeractive/stemcells/lectures.html>

#### Whitehead Institute: podcasts

<http://www.wi.mit.edu/news/podcast/index.html>

#### WGBH NovaScienceNOW

[http://forum.wgbh.org/wgbh/forum.php?lecture\\_id=1839](http://forum.wgbh.org/wgbh/forum.php?lecture_id=1839)

#### Harvard Stem Cell Institute: public forums

<http://www.hsci.harvard.edu/node/45>

#### Exploratorium (San Francisco, CA)

[http://www.exploratorium.edu/imaging\\_station/research/stem\\_cells/story\\_stem\\_cells1.php](http://www.exploratorium.edu/imaging_station/research/stem_cells/story_stem_cells1.php)  
[http://www.exploratorium.edu/imaging\\_station/research/planaria/story\\_planaria1.php](http://www.exploratorium.edu/imaging_station/research/planaria/story_planaria1.php)

#### PBS NovaScienceNOW

<http://www.pbs.org/wgbh/nova/sciencenow/0305/03.html>  
<http://www.pbs.org/wgbh/nova/sciencenow/3302/06.html>  
<http://www.pbs.org/wgbh/nova/sciencenow/3209/04.html>

University of Michigan

<http://www.umich.edu/stemcell/video/>

## **Posters**

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Nature Reviews Cancer

[http://www.nature.com/nrc/posters/stemcell/stemcell\\_poster.pdf](http://www.nature.com/nrc/posters/stemcell/stemcell_poster.pdf)

Nature Reviews Molecular Cell Biology

<http://www.nature.com/nrm/posters/stemcellreprogramming/cellreprogramming.pdf>

## **Other related resources, from StemCellResources.org**

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A Library of Images of Stem Cells

[http://www.stemcellresources.org/library\\_images.html](http://www.stemcellresources.org/library_images.html)

Stem Cell Powerpoint Presentations

[http://www.stemcellresources.org/mm\\_powerpoint.html](http://www.stemcellresources.org/mm_powerpoint.html)

Stem Cell Timelines

[http://www.stemcellresources.org/mm\\_timelines.html](http://www.stemcellresources.org/mm_timelines.html)

Stem Cell Maps

[http://www.stemcellresources.org/mm\\_maps.html](http://www.stemcellresources.org/mm_maps.html)

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