



*WEB SITE REVIEWS  
2007 RESEARCH TEACHERS*

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Teachers participating in APS Summer Research programs wrote the following web site reviews. These reviews should not be duplicated without written permission from the APS Education Office, 9650 Rockville Pike, Bethesda, MD 20814, (301) 634-7132, [education@the-aps.org](mailto:education@the-aps.org).

The Frontiers in Physiology program is designed to create ongoing relationships between research scientists and middle and high school teachers; and to promote the adoption of the National Science Education Standards for K-12 science content and pedagogical techniques among middle and high school teachers.

The Summer Research program offers teachers nationwide a full-time, hands-on laboratory experience for 7-8 weeks at APS members' research labs. Teachers also attend a one-week workshop at the Airlie Center in Warrenton, VA, where they explore hands-on, inquiry based teaching strategies, consider classroom equity and technology-use issues, and begin to develop their own inquiry lab activities.

Frontiers in Physiology is sponsored by APS, the National Center for Research Resources (NCRR), Science Education Partner-ship Awards (SEPA), and the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) at the National Institutes of Health.

More information about these programs is available on the APS website at <http://www.the-aps.org/education.htm>.



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## Web Page Review Assignments

Reviewer	Website	Page
Nancy Buehner	<a href="http://science-education.nih.gov/">http://science-education.nih.gov/</a> Scientific educational resources from the Office of Science Education at the National Institutes of Health.	2
Kathleen Caslow	<a href="http://nobelprize.org/index.html">http://nobelprize.org/index.html</a> <a href="http://nobelprize.org/educational_games/medicine/">http://nobelprize.org/educational_games/medicine/</a> Educational games that complement the Nobel Prize in Physiology or Medicine and other disciplines.	4
Dawn DeMayo	<a href="http://www.hhmi.org/biointeractive/">http://www.hhmi.org/biointeractive/</a> Lectures, animations, virtual labs, DVDs and podcasts related to the research work by Investigators of the Howard Hughes Medical Institute.	7
Debbie Frankel	<a href="http://www.kineticcity.com/">http://www.kineticcity.com/</a> A collection of science experiments, interactive games, and activities designed for kids from the American Association for the Advancement of Science (AAAS).	9
Marshan Jefferson	<a href="http://www.maxanim.com/index.htm">http://www.maxanim.com/index.htm</a> Animations for genetics, biochemistry, immunology, physiology, and microbiology.	11
Megan Lane	<a href="http://learn.genetics.utah.edu/">http://learn.genetics.utah.edu/</a> Interactive activities and simulations to "help people understand how genetics affects their lives and society." From the Genetic Science Learning Center at the University of Utah.	13
Norman Leonard	<a href="http://www.teachertube.com/index.php">http://www.teachertube.com/index.php</a> A spin-off of YouTube: Educational videos to enhance your teaching.	16
Jonni Miller	<a href="http://epnweb.org/index.php">http://epnweb.org/index.php</a> <a href="http://epnweb.org/index.php?openpod=9#12">http://epnweb.org/index.php?openpod=9#12</a> (Science Category) The Education Podcast Network's collection of podcast programming for teachers on content and issues of teaching and learning. Categorized by grade level or by subject matter.	18
Erin Ody	<a href="http://multimedia.mcb.harvard.edu/">http://multimedia.mcb.harvard.edu/</a> (Click on "Launch the Player") <a href="http://multimedia.mcb.harvard.edu/media.html">http://multimedia.mcb.harvard.edu/media.html</a> A multimedia project designed for a molecular and cellular biology undergraduate course. Produced by Harvard University and the Howard Hughes Medical Institute.	21
Lorraine O'Shea	<a href="http://www.accessexcellence.org/">http://www.accessexcellence.org/</a> A website for health and bioscience teachers and learners, hosted at the National Health Museum.	24
Juanita Quevedo	<a href="http://www.chemcollective.org/">http://www.chemcollective.org/</a> A collection of virtual labs, activities, and concept tests for high school and college teachers, from Carnegie Mellon University.	<i>Addendum</i>
MaryAnn Sara	<a href="http://vcell.ndsu.edu/public.html">http://vcell.ndsu.edu/public.html</a> <a href="http://vcell.ndsu.nodak.edu/animations/">http://vcell.ndsu.nodak.edu/animations/</a> The Virtual Cell Animation Collection with an introductory level of explanation of each topic and its animation.	28
Latasha Seay	<a href="http://cellsalive.com/">http://cellsalive.com/</a> Film and computer-enhanced images of living cells and organisms for education and medical research.	31
Camia Steinmann	<a href="http://www.apple.com/education/itunesu/">http://www.apple.com/education/itunesu/</a> Recently launched education site from iTunes U that includes some K-12 material. For example, visit ASU's (Arizona State University) "Ask a Biologist."	33
Monica Van-Y	<a href="http://scienceblogs.com/">http://scienceblogs.com/</a> A portal for online conversations on science created by Seed Media Group, an emerging science media and communications company.	35

## NIH Office of Science Education

Review  
intro  
text

Page 1

## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://science-education.nih.gov">http://science-education.nih.gov</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
The National Institutes of Health Office of Science Education
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
This site is housed at a governmental agency.
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
The National Institutes of Health Office of Science Education has developed this site.
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
It appears to be regularly maintained.
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
The site provides factual information.
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?
There are links for both teachers and students,
<b>8.</b> 8. What kinds of resources are found at this site?
This site has links to: curriculum supplements, education resources that are organized by grade level, online exhibits, forty health related topics and NIH in the news.
<b>9.</b> 9. What is your opinion of the quality of the materials you found there?
The materials are of high quality.
<b>10.</b> 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?
The material is up-to-date and reliable.
<b>11.</b> 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?
<b>This part has not been answered.</b>
<b>12.</b> 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site's purpose?
This site is quite useful for the user.
<b>13.</b> 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?

I would bookmark this site. My favorite area is a career exploration link where there are interviews with people in different career fields, like dental hygienists who tell what they do day to day in their jobs.

**14. SUMMARY REVIEW:** Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ([www.apsarchive.org](http://www.apsarchive.org)) as a review comment for this web site.

The National Institutes of Health Office of Science Education has a website at <http://science-education.nih.gov>. It has links to curriculum supplemental material along with many educational resources organized by grade level. The site is useful for both teachers & students with an excellent career exploration link for students to read interviews from people in different health related professions. In my estimation the information is reliable and accurate and up-to-date with a link called NIH in the News.



## Responses

<p><b>Lorraine O'Shea</b> 27-Jun-2007, 13:44:38</p>	<p>Nancy, There is a lot of great information on this site. It looks like a really good reference site.</p>
<p><b>Camia Steinmann</b> 07-Jul-2007, 15:28:23</p>	<p>I actually requested the curriculum supplement materials from this site and less than two weeks later I got them in the mail. They are fantastic! There are great lesson plans and discussion ideas and it includes a CD. It's a GREAT resource and free too!</p>

# The Ultimate Source for Nobel Prize Information

Review  
intro  
text

Page 1

## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://nobelprize.org/">http://nobelprize.org/</a> <a href="http://nobelprize.org/educational_games/">http://nobelprize.org/educational_games/</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
The Ultimate Source for Nobel Prize Information
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
organizational (.org)
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
Nobelprize.org ( <a href="http://nobelprize.org">http://nobelprize.org</a> ) is a registered trademark, and is produced, managed and maintained by Nobel Web. Nobel Web AB is a Swedish corporate entity and subsidiary of the Nobel Foundation Rights Association, a non-profit association managing the rights of the Nobel Foundation. Alongside its own productions, Nobel Web AB processes and publishes information from the Nobel Foundation, the Nobel Prize-Awarding Institutions, the Nobel Laureates and other Nobel Prize-associated entities. Its dedicated staff is assisted by advisers, whose knowledge and expertise about Nobel Prize topics and the Nobel Laureates' achievements ensure the reliability and quality of the information presented at Nobelprize.org.
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
Yes it appears the site is well maintained and regularly updated. It has been updated in 2007.
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
This web site was produced by the Nobel Foundation Rights Association to provide comprehensive, first hand information about the Noble prize winners as well as information on Alfred Nobel the man behind the prize. There is a good deal of factual information and time lines to help you discover about these great people. There is also an educational component. It provides games, experiments and simulated environments for ages 14 to 18 to help them have a deeper understanding of the impact of the Nobel prize winners and of the concepts they discovered. It is entertaining and can be used as homework.
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?
The web site is appropriate for both teachers and students. The age recommended for

the games is 14-18. In terms of the factual information it could be relevant for students 12 and up. It is relevant for teachers especially if you wish to find information about things like how many women are Nobel prize winner. The games are fun and informative.

**8.** 8. What kinds of resources are found at this site?

This is a factual web and interactive site. It can provide a large base of information about many Nobel prize winners and their lives, along with a great deal of information about the reason why they won. There are video clips of speeches and shows related to the Nobel prize winners. The games and simulations provide fun ways to test your knowledge and interact with the material.

**9.** 9. What is your opinion of the quality of the materials you found there?

The quality of the material is excellent! It seems very reliable and helpful.

**10.** 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?

It appears to be accurate and up to date

**11.** 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?

They would be fine for most of situations and facts presented on this web page. Some of the games might need to be updated or expanded to include current research as time progresses.

**12.** 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site's purpose?

This is an overall excellent site for the purpose stated by those who made this site. Now that I have found this page I would like to make use of it when I assign the scientist research project I do each year. The games seem a fun way to engage the students too! Navigational tool and graphics are suitable. I was able to clearly move around the web page without feeling frustrated.

**13.** 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?

Yes, I would bookmark this page. It could help students when they do a research project on scientists. It can help me to provide historical relevance to some of the topics presented. Perhaps as a fun homework assignment. The games are varied and have a good deal of relevant information that students can pick-up while playing.

**14.** SUMMARY REVIEW: Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ([www.apsarchive.org](http://www.apsarchive.org)) as a review comment for this web site.

The web site The Ultimate Source for Nobel Prize Information (<http://nobelprize.org/>[http://nobelprize.org/educational\\_games](http://nobelprize.org/educational_games)) was produced by the Nobel Foundation Rights Association. It provides comprehensive, first hand information about the Noble prize winners as well as information on Alfred Nobel the man behind the prize. There is a good deal of factual information and time lines to help you discover about these great people. There is also an educational component. It provides games, experiments and simulated environments for ages 14 to 18. It allows them have a deeper understanding of the impact of the Nobel prize winners and of the concepts

they discovered. It is a helpful resource for all sciences for both teachers and students. It is also very entertaining and has multiple uses. It can be used as a resource, research tool, a teaching aide, interactive class time and as homework. It is very professional done and of a high quality and it is fun. It appears to be continually updated by the Nobel Foundation on a frequent basis. I strongly recommend this web site.



## Responses

<p><b>Monica Van-Y</b> 15-Jun-2007, 18:18:27</p>	<p>I will be exploring this site as I, too, assign a research project on scientists and their work/discoveries/contributions to society.</p>
<p><b>Lorraine O'Shea</b> 27-Jun-2007, 14:22:15</p>	<p>This is a great site for researching scientist. I don't do the type of project you both were talking about, but I think it is a great idea.</p>

# Web Site Review

Page 1

## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://www.hhmi.org/biointeractive">http://www.hhmi.org/biointeractive</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
howard hughes medical institute
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
.org - non profit orhanization
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
howard hughes medical institute developed the site
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
there is no date as to when the site was last updated. However, it does seem to be maintained and updated regularly. It seems pretty current.
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
This site is to provide factual information
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?
I think this web site is appropriate for both. I would highly recommend this site for HS students and teachers of 5th grade and up.
<b>8.</b> 8. What kinds of resources are found at this site?
Various animations, virtual labs and dissections, web clips, how to order products (dvd's), ask a scientist page...all kinds of good stuff!
<b>9.</b> 9. What is your opinion of the quality of the materials you found there?
I think this is a good site and I think it is a quality site.
<b>10.</b> 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?
I find the materials reliable and up to date...pretty current
<b>11.</b> 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?
I think the tools would be very reliable over time. The dvd's and video clips are good quality and valuable to any teacher
<b>12.</b> 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site's purpose?

The tools and graphics are suitable and it is an easily navigated site

**13.** 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?

yes I would. I would use it for information purposes and virtual labs. I would have my students involved in the ask a scientist page.

**14. SUMMARY REVIEW:** Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ([www.apsarchive.org](http://www.apsarchive.org)) as a review comment for this web site.

The web site <http://www.hhmi.org/biointeractive> is an up to date site produced by the Howard Hughes Medical Institute. There is a lot of good, reliable information on this site. For example, there are virtual labs and ask a scientist areas. The site is easy to navigate. There are also ordering pages if one would like to order dvd's. I would recommend this site to fellow educators and students.

## Create Your Show N' Tell



## Poster Session!



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## Responses

There are currently no responses to this presentation.

# Welcome to Kinetic City

Page 1

## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://www.kineticcity.com">http://www.kineticcity.com</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
Welcome to Kinetic City
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
Commercial company
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
American Association for the Advancement of Science with support from the National Science Foundation
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
Unknown. Established in 2005.
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
A. Provide factual information.
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?
Both. 3rd-5th and after school program group leaders.
<b>8.</b> 8. What kinds of resources are found at this site?
100 fun, standards-based science activities: - Hands-on demonstrations and experiments - Writing and Language Arts Internet research - Interactive science games - Art projects - Physical activities
<b>9.</b> 9. What is your opinion of the quality of the materials you found there?
Solid standards-based curriculum that is interactive, hands-on, and real world.
<b>10.</b> 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?
Good, up to date - esp. since produced by the AAAS.
<b>11.</b> 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?
After-school standards-based science program.
<b>12.</b> 12. How useful do you feel this site is for its intended users? Are the navigational

tools and the graphics suitable for the site's purpose?
It is useful for elementary school students as an additional means to learn science standards. It is easy to navigate with visually appealing graphics.
<b>13.</b> 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?
Probably not. Since the site's target audience is slightly younger than my students, it might be good for a single time activity but not for a long-term project.
<b>14.</b> SUMMARY REVIEW: Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ( <a href="http://www.apsarchive.org">www.apsarchive.org</a> ) as a review comment for this web site.
Welcome to Kinetic City ( <a href="http://www.kineticcity.com">http://www.kineticcity.com</a> ) is produced by the American Association for the Advancement of Science. It contains one hundred fun, standards-based science after school activities for 3rd-5th graders. Resources are available for group leaders as well. This site is accurate, easy to navigate, and has visually appealing graphics.



## Responses

<b>Lorraine O'Shea</b> 27-Jun-2007, 14:45:48	I like this site but would probably only use it with younger students. The classification section would be okay to use with some of my students. It is a fun site for elementary students though. I am always looking for fun educational sites for my 7 year old daughter so I think I will have her test it out.
<b>MaryAnn Sara</b> 28-Jun-2007, 06:50:10	I tried Kinectic City. I think some 6th graders would enjoy it. I had trouble using the Lab section and when I tried my second activity the site wouldn't accept my password. Did you have any problems?

# Animations Under Constructuion

Page 1

## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://maxanim.com/htm">http://maxanim.com/htm</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
Max Animations
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
The webpage is housed at a commercial Company.
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
No contact information is provided
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
It appears to me that the website is under construction. On each page where an animation is suppose to appear there is a sign that states, "Animation is Preparing, Thanks for patience". After several minutes nothing appears.
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
This site seems to appeal to selling products and services however, there are some aspects that are educationally useful.
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?
This website is clearly for teachers. The website contains a lot of junk and an educator and not a student can tell which information is actually useful.
<b>8.</b> 8. What kinds of resources are found at this site?
Animations Notes Power Point Presentations Tutorials
<b>9.</b> 9. What is your opinion of the quality of the materials you found there?
The materials are of a very high quality once you find relevant material to your curriculum.
<b>10.</b> 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?
The materials found on the site are up to date and very accurate.
<b>11.</b> 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?

Due to the fact that the site functions off of Google Ads I feel that it will be reliable over time based on Google's reputation.

**12.** 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site's purpose?

At this time due to the fact that the majority of the site is under construction it is not very useful to anyone. However, the navigational tools are very clear and concise. Once the site is no longer under construction it will be very useful.

**13.** 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?

I would bookmark this site for myself. I would use it as a means to find high definition graphics to present in a power point presentation.

**14.** SUMMARY REVIEW: Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ([www.apsarchive.org](http://www.apsarchive.org)) as a review comment for this web site.

The max animations website is currently a work in progress. However with a little bit of effort one can find valuable information pertinent to the biological sciences. The website is <http://maxanim.com/htm>. The information is typically generated from various private companies. This site due to its abundance of information from random sources is not useful for students whatsoever. I feel that once the construction is completed it will be a valuable resource.

## Poster Session!

**[Animations Under Constructuion](#)**  
by *Marshan Jefferson*



## Responses

There are currently no responses to this presentation.

# The Genetics Science Learning Center

Review  
intro  
text

Page 1

## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://learn.genetics.utah.edu/">http://learn.genetics.utah.edu/</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
The Genetics Science Learning Center
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
Educational Institution
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
The University of Utah
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
It was last updated on May 8, 2007.
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
The University of Utah developed this web site to "help people understand how genetics affects their lives and society." This is an educational site devoted to providing factual information for teachers and students.
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?
This web site has resources for teachers and students. If a teacher chooses to create a user account there are even more resources available after logging in. I think this website is geared toward high school level material but the resources could definitely be used at the middle school level if the activity was guided, cooperative, or teacher led, etc.
<b>8.</b> 8. What kinds of resources are found at this site?
This site covers a wide variety of topics related to genetics mostly in the form of "tutorials" - animated and interactive lessons and models. It also has many resources available to teachers if they choose to register (for free) as a user of the site. After logging in teachers can access additional lesson plans in PDF format, learn about professional development opportunities, etc.
<b>9.</b> 9. What is your opinion of the quality of the materials you found there?
The resources on this site are excellent! The diagrams and illustrations break down complex processes into manageable concepts and many of the tutorials have an interactive component that would actively engage students.
<b>10.</b> 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?

All of the materials I reviewed on this site seemed extremely reliable and scientifically accurate. The only activity that caught my attention in a negative way was called the "Mad, Mad, Mad Neuron" which featured a Frankenstein-like scientist. I don't know that I would have thought twice about this activity before the "Draw a Scientist" activity but now I probably wouldn't take my students through this tutorial because of the negative personification of the scientist! However, overall, this site was wonderful and full of excellent resources!

**11.** 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?

The online tools and teaching resources seem to be very reliable and it appears that the activities and resources are updated regularly. The only drawback to this site would be if you had an older computer--most of the activities/tutorials require the newest version of Macromedia Flash Player (which you can download for free if your district allows that sort of thing).

**12.** 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site's purpose?

I think this site could be very useful for a variety of educational uses: individual student exploration; cooperative group work; class discussion, notes, &/or reviews; etc. There is a LOT of information on this site so I think students could get a little overwhelmed, but that could easily be avoided by designating a specific tutorial or having a guide of some sort.

**13.** 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?

I would definitely bookmark this page if I taught high school biology because the diagrams & tutorials are really great (I thought the transcription & translation one was especially good!). Since many of the topics are a bit beyond what I cover in my middle school class, I have copied the url into my "Genetics Websites" page but I probably won't use it enough to bookmark it.

**14.** SUMMARY REVIEW: Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ([www.apsarchive.org](http://www.apsarchive.org)) as a review comment for this web site.

If you are looking for a way to introduce your students to hard-to-visualize genetic processes and concepts, The Genetics Science Learning Center may be the site for you! This site, found at <http://learn.genetics.utah.edu/> was developed by the University of Utah and covers topics ranging from the basics of DNA structure and replication, to the debates surrounding cloning and stem cells. The information is presented in the form of tutorials which use diagrams and illustrations to break down complex processes into manageable concepts. Many of the tutorials have animations and interactive components that actively engage students. The activities and resources on this site would be appropriate for the high school or middle school classroom, and additional resources are available for teachers after creating a simple (and free!) user account. This site does require the newest version of Macromedia Flash Player (download for free by following the link within each tutorial). Overall, this is an excellent, well-maintained resource for all topics related to genetics.



## Responses

<p><b>Latasha Seay</b> 15-Jun-2007, 07:45:35</p>	<p>Genetics is my favorite thing to teach because you can do so much with this subject. Thanks for evaluating this website so well. I will add it to my favorites today.</p>
<p><b>Monica Van-Y</b> 15-Jun-2007, 18:15:37</p>	<p>This is another website I rely on for use in my classroom. Another best of the best website!</p>
<p><b>Lorraine O'Shea</b> 27-Jun-2007, 14:17:04</p>	<p>This is a wonderful web site. My 7th graders find genetics very difficult because it is so abstract. This site will be a great help to me when I am teaching this topic. I also like the stem cell information and the transgenic information. Students are fascinated with these topics.</p>
<p><b>Joanna Miller</b> 05-Jul-2007, 07:36:40</p>	<p>I just checked the site out. It looks really great. I will definitely explore it further and possibly use it this fall.</p>

## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://www.teachertube.com/index.php">http://www.teachertube.com/index.php</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
Teacher Tube - "Teach the World"
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
It is a .com
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
Jason, Adam and Jodie Smith
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
March 7, 2007
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
The site was developed because the authors wanted to help make it easier for teachers, schools, home-school and students to be able to be able to use videos and the safe learning.
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?
The website has information appropriate for students and teachers. K-12 and some college/university information is included.
<b>8.</b> 8. What kinds of resources are found at this site?
Videos, blogging, and information on specific ideas.
<b>9.</b> 9. What is your opinion of the quality of the materials you found there?
Very good. Of course, some are better than others.
<b>10.</b> 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?
Of the information I reviewed, it appears to be accurate, intersting and current.
<b>11.</b> 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?
Not very reliable so far. Since it is a new website, it could be improved. I have used streaming videos before. It is better and much more reliable to download the videos to a local server or to a CD. I did not try to do this with this site. Most places charge for it, but it looks free.
<b>12.</b> 12. How useful do you feel this site is for its intended users? Are the navigational

tools and the graphics suitable for the site's purpose?

Somewhat useful. I would be able to use a couple of the videos. Navigation bars seem to be appropriate.

**13.** 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?

yes, so I could access the videos more easily.

**14.** SUMMARY REVIEW: Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ([www.apsarchive.org](http://www.apsarchive.org)) as a review comment for this web site.

On the website for Teachertube, [www.teachertube.com/index.php](http://www.teachertube.com/index.php), one can find videos that will enhance the educational process for students in grades K-college. The video sections are marked for ability level and topics range from a wide variety of scientific areas. The website can be useful to all teachers as a filler to reinforce and clarify materials previously taught, or the videos can be used to introduce a lesson. I particularly liked the non-scientific, but practical and motivational video on "Quotes and Sayings." I could see turning that on at the beginning of a class while taking attendance and letting students find a quote they like. I have always believed that as educators we are also motivators for success.



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## Responses

There are currently no responses to this presentation.

# EPN: The Educational Podcast Network

Review  
intro  
text

Page 1

## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://epnweb.org/index.php">http://epnweb.org/index.php</a> <a href="http://epnweb.org/index.php?openpod=9#12">http://epnweb.org/index.php?openpod=9#12</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
EPN The educational podcast network
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
.org Nonprofit organization
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
David Warlick with the Landmark Project
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
No information. There is a box that says "recently added" but when was recently?
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
To bring together a wide range of podcasts to help teachers
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?
Teachers, though student could benefit some
<b>8.</b> 8. What kinds of resources are found at this site?
Podcasts!
<b>9.</b> 9. What is your opinion of the quality of the materials you found there?
Some of the podcasts links brought the viewer to a page that was a link for subscribing to the podcasts. Microbe World for instance brings the viewer to a page with a science comedian and a link for subscribing to Microbe World podcasts.  Some of the links (like NPR), went to actual podcasts. NPR is pretty reputable as far as a news source so I would probably use this as a starting point of information.  Most of the podcasts are only auditory however and will only hold students' attention for a brief period.
<b>10.</b> 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?
What I found seems accurate and up to date. I really only searched areas that I found

to be pretty reputable to begin with (eg NOVA podcasts, NASA podcasts etc)
<b>11.</b> 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?
I think they are updated pretty well. It would be a better site if none of the links were only links to purchahse a subscription for podcasts. Again, much of what I heard seems accurate but needed visual aids.
<b>12.</b> 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site s purpose?
Easy to navigate (I think)
<b>13.</b> 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?
I actually bookmarked it for further exploration. At this point I would only use it as a refernec tool for myself. I would not send students to the site.
<b>14.</b> SUMMARY REVIEW: Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources (www.apsarchive.org) as a review comment for this web site.
<p><a href="http://epnweb.org/index.php">http://epnweb.org/index.php</a>  <a href="http://epnweb.org/index.php?openpod=9#12">http://epnweb.org/index.php?openpod=9#12</a></p> <p><u>EPN</u> The educational podcast network          David Warlick with the Landmark Project Site brings together a wide range of podcasts to help teachers</p> <p>Site seems accurate and up to date. I really only searched areas that are pretty reputable to begin with (eg NOVA podcasts, NASA podcasts etc)</p> <p>Some of the links (like NPR), went to actual podcasts. Some of the podcasts links brought the viewer to a page that was a link for subscribing to the podcasts.</p> <p>Good resource/starting site. Much of what I found was strictly auditory. It seems accurate but needed visual aids.</p>



**Responses**

	I found this site very interesting, but I would have liked a little better
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**Lorraine O'Shea**  
03-Jul-2007, 08:54:45

description of the pod casts. It would make the site easier to use. I will use it for reference too and maybe have students listen and review pod casts. I think it would be a lot like reading current science articles for them, but using a more current medium.

# Multimedia Production Site - website review

Review  
intro  
text

Page 1

I don't know why the Show N' Tell program split the website address. You can cut and paste it, or click the first link and choose the media box at the bottom.

## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://multimedia.mcb.harvard.edu/">http://multimedia.mcb.harvard.edu/</a> <a href="http://multimedia.mcb.harvard.edu/media.html">http://multimedia.mcb.harvard.edu/media.html</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
MultiMedia Production Site
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
educational institution
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
The President and Fellows of Harvard University and Howard Hughes Medical Institute
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
The site has not been updated since early 2006.
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
The purpose is 2-fold. One is to provide and organize multimedia production experiences to Harvard students at both the undergraduate and graduate level. Secondly, it is to provide factual, animated explanations of biological concepts.
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?
There are a few clips that would be appropriate content level for high school students; however, most of it is aimed at college-level biology in my opinion. I don't teach advanced Biology but it is very complex. It's covering things like extravasation, western blots, and the molecular basis on muscle contraction. The energy conservation ones are the only basic-level clips. The rhino one is good.
<b>8.</b> 8. What kinds of resources are found at this site?
The resources for teachers are just student-made animations and videos explaining biological concepts and techniques.
<b>9.</b> 9. What is your opinion of the quality of the materials you found there?
The quality varies greatly. Some of the animations are just 2D cartoons while others are 3D computer animations that are amazing! There are also video clips, though

sometimes the audio does not match.
<b>10.</b> 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?
In terms of scientific materials, the site is reliable and accurate. Though the clips are often written by undergraduates, they are reviewed by a board before going into production.
<b>11.</b> 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?
The online tools are just the links to the clips (there are only 18), which are useful and students could be easily guided there. A problem I encountered is availability of technology. I tried to view the videos on an older computer and they wouldn't even load. I tried to view them on new computers but network security would not allow me to download the needed software.
<b>12.</b> 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site's purpose?
The website has potential but is a little sparse on content right now. Unfortunately it doesn't appear as though it is being developed any further.
<b>13.</b> 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?
No. The content in these clips is way too advanced for my students.
<b>14.</b> SUMMARY REVIEW: Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ( <a href="http://www.apsarchive.org">www.apsarchive.org</a> ) as a review comment for this web site.
The website <a href="http://multimedia.mcb.harvard.edu/">http://multimedia.mcb.harvard.edu/</a> is a catalog of video clips explaining biological concepts. It is sponsored by Harvard University and The Howard Hughes Medical Institute. The information is accurate and reliable, though it is very advanced. Topics are very limited (18 clips) and include the molecular basis of muscle contraction, extravasation, and western blots. Unfortunately, it does not appear that the website is being developed any further to add more clips. Introductory Biology teachers would not find this site very useful. Advanced Biology teachers might as it is aimed at a college-level audience.



## Responses

<b>Lorraine O'Shea</b>	Erin, I agree with your assessment of this site. It is too bad that they didn't do more with it. Some of the animations are very good and I would have
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25-Jun-2007, 21:12:04	liked to see more of them. I would have liked to see some geared to younger students.
<b>Norman Leonard</b> 09-Jul-2007, 15:54:33	Erin it was good to chat with you and the group this morning. Your comments here are valuable. A couple of those videos look like I might be able to use them next year.

# Awesome Website for Science Teachers and Students

Review  
intro  
text

Page 1

## Create Your Show N' Tell

**[Awesome Website for Science Teachers and Students](http://www.accessexcellence.org/)**  
*by Lorraine O'Shea*

## Website Review Notes

<p><b>1. 1. What is the URL (web address)? Please doublecheck for typos!</b></p>
<p><a href="http://www.accessexcellence.org/">http://www.accessexcellence.org/</a></p>
<p><b>2. 2. What is the title of the web page (home page or index page)?</b></p>
<p>Access Excellence AE @the National Health Museum</p>
<p><b>3. 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?</b></p>
<p>Non profit organization</p>
<p><b>4. 4. Who developed the web site? List the person and/or organization, if possible.</b></p>
<p>This website is a collaboration between the Access Excellence Program and The National Health Museum. There are many individuals involved in both programs. I have listed some information on the individuals who founded Access Excellence and the current board of trustees of the National Health Museum is available at the web site. The board consists of many scientists and educators as well as CEOs of medical companies.</p> <p>Genentech Inc. launched access Excellence in 1993 and in 1999 it joined the National Health Museum a non profit organization founded by former U.S. Surgeon General C. Everett Koop as a national center for health education.</p> <p>The Founding Advisory Board included: Richard Nicholson American Assc. for the Advancement of Science, Honorary chairperson, Senator Dianne Feinstein, David Botstein of the Department of Genetics at Stanford University, Gerald Fink director of the Whitehead Institute for Biomedical Research Mass. Institute of Technology, Steven Jobs CEO Apple Computer, Anthony Kossiakoff Director of Protein Engineering at Genentech Inc., David Micklos Director of DNA Learning Center Cold Spring Harbor Laboratory, Carol Morita Science Ed. Liaison Genentech, Joseph Perpich Vice President of Grants and Special Programs Howard Hughes Medical Institute, Michael Rosen Prof. of Pharmacology and Pediatrics Columbia University, Barbara Schulz President of the National Assc. of Biology Teachers, Elizabeth Stage Co-Director for Science New Standards University of California, Rodman Starke Senior VP Scientific affairs for the American Heart Assc., Mary Lindenstein Walshok Assc. Vice Chancellor Extended Studies and Public Service</p>

University of California, San Diego, George Whitesides Prof. Chemistry Harvard University.

**5. 5.** When was the site last updated? Does it appear to be regularly maintained and updated?

June 1 2007, yes, it appears that it is quite up to date. Most of the information is fairly recent. I didn't find any links that were not active.

**6. 6.** Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.

According to their mission statement the National Health Museum's mission is to educate, engage and inspire people to understand the past, present and future of health and health science and to empower them to act upon that information to enhance their individual, family and community health.

Access Excellence is a program that provides high school health and biology teachers' access to their colleagues, scientists, and critical sources of new scientific information via the web.

**7. 7.** Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?

I think that both teachers and students could use the web site. I think that both high school and middle school students could use this site. This web site contains a wide variety of resource materials for students, like graphics explaining different biological processes. There is also lots of information for teacher. The site contains lesson plans and networking sites for teachers to use. There are very interesting science mysteries teachers could use in their classes. There are numerous interesting resources for both teachers and students.

**8. 8.** What kinds of resources are found at this site?

\*Science information in the news

\*Question of the week dealing with a health topic.

\*The "Resource Center" has graphics explaining various concepts. The center has virtual experiences using a microscope, animations of different processes like DNA Replication and mitosis and meiosis, and graphics of different processes. There are also web resources listing many web sites on a variety of topics from biotechnology to virology. There are sites listed for teachers and students.

There is also career information section and interviews with Nobel Prize winners. The resource center also has many resources on biotechnology including a history of biotechnology and new advancements in biotechnology.

\*The "Activity Exchange" has activities submitted by teachers and "Partners" of the site. These include lessons plans and interactive lessons like science mysteries that students can solve. There is a teacher's lounge where you can talk to creators of the activities via email.

\*There is a "Health Headquarters" link that provides visitors with information on current topics in health. There are web resources related to health programs and activities and events and a link to the question of the week. There is also a link to a "Health Politics" site that discusses issues in health care policy and public health.

\*There is a "Let's Collaborate" section that allows visitors to interact with scientist and teachers. In this section there is a "Sci Talk" link so that teachers and scientists can share information and discuss different topics in science. There are links for teachers to discuss curriculum issues, educational reform, and technology in

education and to network with other Health teachers or Biology teachers.

**9.** 9. What is your opinion of the quality of the materials you found there?

I thought the quality of material at this site was outstanding. I spent a lot of time going through the graphics section to see if I could use some of the animations or virtual lessons in my classroom. They were awesome. I loved the mysteries and spent a fair amount of time going through some of those. I went through many of the lessons and found lots of good information there as well. The site provided great information presented in an easy to use, interesting way.

**10.** 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?

The scientific material at the site seemed very reliable. The site had many awards for excellence. The information was fairly up to date. There was archived information that might not be as up to date but all in all I would have to say the materials and resources were accurate and up to date. I would consider this site very reliable.

**11.** 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?

I feel that the tools offered at this site would be very reliable over the long term. The site was well maintained, none of the links that I went to were no longer functioning. The animations were good, the on line tools were good and easy to use and I think would be easy for students to use as well.

**12.** 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site's purpose?

I think the site would be very useful to teachers and students. It is very easy to navigate the site and the graphics are very good and suitable for many different levels of users. I know that I intend to use it both for reference for myself and as a teaching tool to use with my students.

**13.** 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?

Yes, I have bookmarked it for myself and have shared it with other teachers. I will use some of the science mysteries with my students because I think that they would benefit from solving the problems that are presented in the mystery scenarios. I would use the animations of the different processes to help the students understand the processes better. I think I will use the virtual microscope before we actually go to use the microscopes. I think I will use some of the careers in science links as well.

**14.** SUMMARY REVIEW: Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ([www.apsarchive.org](http://www.apsarchive.org)) as a review comment for this web site.

The website I reviewed is sponsored and maintained by Access Excellence and The National Health Museum. The URL for this site is <http://www.acessexcellence.org/>. This web site contains a wide variety of excellent resources for both teachers and students. The information is up to date and accurate. The links are well maintained and active. The site contains lesson plans and lesson exchanges for biology and health teachers. There is also a section for collaboration with other teachers or with scientists. The resource center is terrific. It has a visual library with science graphics

and animations. It has a section on careers in science and a wonderful section on biotechnology. The site also contains a terrific section devoted to health issues. One of my favorite sections of this site is a section on science mysteries. In this section visitors are taken through an interactive mystery and must solve sections of it along the way. I highly recommend this site.



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## Responses

<b>MaryAnn Sara</b> 29-Jun-2007, 10:46:56	This site is an intriguing experience. I loved the global health issues and the science mysteries
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# USING GAMES AND ANIMATION TO LEARN CELL AND MOLECULE PROCESSES

Review  
intro  
text

Page 1

Poster Session!

<b>USING GAMES AND ANIMATION TO LEARN CELL AND MOLECULE PROCESSES</b> <i>by MaryAnn Sara</i>
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## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://vcell.ndsu.edu/public.html">http://vcell.ndsu.edu/public.html</a> <a href="http://vcell.ndsu.nodak.edu/animations/">http://vcell.ndsu.nodak.edu/animations/</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
The Virtual Cell. Virtual Cell Animation Collection Molecular and Cellular Biology Learning Center
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
The web page was developed at North Dakota State University. It is posted by The Molecular and Cellular Biology Education Project.
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
The World Wide Web Instructional Committee at North Dakota State University developed a suite of high-quality animations of molecular and cellular processes based on research showing that student retention of content material was significantly better when lecture and animations were combined. The project was funded by a NSF award, U.S. Department of Education's Fund for the Improvement of Postsecondary Education, with additional support from Maya Academy Award winning 3-D Software from Autodesk.
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
The site was developed on July 21,2000. It was updated on July 12, 2005.
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
The authors' purpose was to provide information to students in a manner that enhanced the retention of content information.
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?

The site was designed for college freshmen in general biology in the First Look and for advanced biology students from baccalaureate to graduate level in the Advanced Look. I would recommend this site for teachers at the middle school and high school levels.

**8.** 8. What kinds of resources are found at this site?

The first site is a free logIn as a professor or student. It contains a preview, registration, login and play, message board and help. The games begin in a lab with a scientist. The some of the options are: Vitual Cell Home, Submarine Training, Mission Summaries, Animations Site and Feed Back. The second site is a link from the Virtual Cell Home page, it contains animations of 5 cellular processes such as: Electron Transport Chain and Photosynthesis: and 5 molecular processes such as: Transcription and mRNA Splicing.

**9.** 9. What is your opinion of the quality of the materials you found there?

The quality of the site is excellent. It presents pertinent information visually, aurally, and in text. The animations are colorful, 3-dimentional and easy to follow. I especially liked the Animations Site. The game moduals were difficult, but gave good information.

**10.** 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?

Judging by the credentials of the panel producing this material, I find the materials accurate. The site seems to be current.

**11.** 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?

The materials are engaging and would be great for introducing or studying the content for a short time.

**12.** 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site's purpose?

The site is highly suitable for its purpose. The navigational tools for the animation site work well and the graphics are extraordinary. The game moduals were more challenging to navigate, but included tutorials.

**13.** 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?

I would bookmark this site for myself and for my students even though the content level is too high. It might be a motivation for my students to produce comics, powerpoints or animations at their level of understanding.

**14.** SUMMARY REVIEW: Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ([www.apsarchive.org](http://www.apsarchive.org)) as a review comment for this web site.

The Virtual Cell  
<http://vcell.ndsu.edu/public.html>  
<http://vcell.ndsu.nodak.edu/animals/>

This site was produced at North Dakota State University by a group of professors on

the World Wide Web International Committee and is posted by the Molecular and Cellular Biology Education Project. It contains games and animations of cellular and molecular processes. The site is reliable and accurate and highly useful for freshman general biology students (First Look) and advanced biology students from baccalaureate to graduate level (Advanced Look).

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## Responses

There are currently no responses to this presentation.

# Oh My Goodness, The Cells are Alive!

Review  
intro  
text

Page 1

## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://cellsalive.com">http://cellsalive.com</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
Cells alive!
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
Commercial company
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
Jim Sullivan
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
No date was listed, only a copyright of 2006
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
CELLS alive! represents 30 years of capturing film and computer-enhanced images of living cells and organisms for education and medical research.
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?
Both, all levels
<b>8.</b> 8. What kinds of resources are found at this site?
Videos, puzzles, quizzes, translate homework tool, galleries with pictures
<b>9.</b> 9. What is your opinion of the quality of the materials you found there?
I would highly recommend this website to a fellow teacher
<b>10.</b> 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?
It shows that there is a copyright date of 2006 and I feel that it is accurate
<b>11.</b> 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?
Very good for the visual and auditory learners
<b>12.</b> 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site's purpose?
Yes they are very user friendly
<b>13.</b> 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?

Yes, I already have and I would use this website to help teach the students about the cell process.

**14. SUMMARY REVIEW:** Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ([www.apsarchive.org](http://www.apsarchive.org)) as a review comment for this web site.

The title of my website was Cells alive! located at <http://cellsalive.com>. The website was created by Jim Sullivan and is the property of Quills Graphics. The type of materials in this website are videos, interactive lessons, homework help, and pictures. I feel this website is very user friendly and I would recommend this website to any one of my fellow teachers or students.



## Responses

<b>Monica Van-Y</b> 15-Jun-2007, 18:14:20	I've been using CellsAlive! for years. It really is a great site - my students enjoy perusing it. One of the best on the Web!
<b>MaryAnn Sara</b> 25-Jun-2007, 06:48:01	This site sounds great. I sounds like something my students would enjoy. I'll check it out.
<b>Erin Ody</b> 25-Jun-2007, 07:28:43	I have also used this site on many occasioins. It is wonderful.
<b>Lorraine O'Shea</b> 26-Jun-2007, 21:55:49	I love the animations as well as the rest of the site. It looks like a great site to use with my class.
<b>Joanna Miller</b> 05-Jul-2007, 07:34:14	I've used CellsAlive! for years. It is a great website!
<b>Marshan Jefferson</b> 09-Jul-2007, 13:04:40	Now, I would say that this is a good site. I would love for my students to work individually using the site.

## Podcast your lectures

Page 1

Mostly university level material, but just starting to be used in K-12 classrooms.

## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://www.apple.com/education/itunesu/">http://www.apple.com/education/itunesu/</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
iTunes U: the campus that never sleeps
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
Housed by a commercial company: Apple, Inc., Cupertino, CA
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
Developed by Apple, Inc.
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
Updated July, 2007; very regularly updated and maintained
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
To sell products that facilitate the creation and presentation of podcasts such as Apple computers, Apple equipment and iPods
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?
Educators and students use this website. Educators use it to post the podcasts they've created and students use it to view the podcasts. Currently, this site is only used by universities.
<b>8.</b> 8. What kinds of resources are found at this site?
Educators can post audio and video podcasts on this website. Students then access the content and download it to iTunes where they can listen to it on their computer or through their iPod.
<b>9.</b> 9. What is your opinion of the quality of the materials you found there?
This technology is very new. It would allow students to view lectures or watch lab demonstrations whenever they wanted to. I believe it is a wonderful resource for educators and students. Students can learn academic content on a technological level they are familiar with.
<b>10.</b> 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?
There are no scientific or educational materials, only a site to post or view podcasts.
<b>11.</b> 11. If the site offers online tools for teaching, how reliable do you feel the tools

would be, especially over long periods of time?

Once a podcast has been recorded and posted, it would be accessible indefinitely by students and other educators. The information may or may not be correct depending on the person that created it.

**12.** 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site's purpose?

This site is easy to navigate and has specific links for administrators, educators, and students. In order to view the podcasts, the user must have appropriate equipment including speakers and the iTunes software.

**13.** 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?

I would bookmark this website only for myself to keep an eye out for interesting podcasts. I would only use this site in my classroom if I found a useful lecture. All lectures currently on the site are from universities around the United States.

**14.** SUMMARY REVIEW: Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ([www.apsarchive.org](http://www.apsarchive.org)) as a review comment for this web site.

This technology allows students to access videos of lectures, demonstrations, and slide shows that have been created by their teacher specifically for their class. At iTunes U ([www.apple.com/education/itunesu](http://www.apple.com/education/itunesu)) students can download podcasts to their home computers and their personal iPods. Currently, the site only contains podcasts from universities, but any teacher with the necessary equipment (and budget) can use this site as a classroom resource. All users should be cautioned that the accuracy of information on any podcast is dependent on the creator. I would use this as a resource if I received a grant to purchase all the necessary equipment and software. It's exciting to think of the possibilities of this technology: podcasts of lab demonstrations, lectures, trips to museums, or even live accounts from field work. This is a technology with which today's student is familiar, providing a great educational opportunity.



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## Responses

<p><b>Lorraine O'Shea</b> 08-Jul-2007, 20:02:42</p>	<p>It is a very interesting site. We can develop pod casts at our school as a presentation tool and several teachers have used it with their classes having students prepare pod casts on various topics, but I have not thought about using it as a teaching tool myself. I think it would be a great idea, especially for really difficult topics.</p>
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# ScienceBlogs

Page 1

## Create Your Show N' Tell



## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
<a href="http://scienceblogs.com/">http://scienceblogs.com/</a>
<b>2.</b> 2. What is the title of the web page (home page or index page)?
ScienceBlogs
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
It is commercial (.com)
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
ScienceBlogs is created by Seed Media Group.
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
Since my site is a blog it is constantly being updated - so about 39 minutes ago (7:25 p.m. June 15, 2007)
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
What follows is the script from ScienceBlogs.com:  We believe in providing our bloggers with the freedom to exercise their own editorial and creative instincts. We do not edit their work and we do not tell them what to write about.  We have selected our 60+ bloggers based on their originality, insight, talent, and dedication and how we think they would contribute to the discussion at ScienceBlogs. Our role, as we see it, is to create and continue to improve this forum for discussion, and to ensure that the rich dialogue that takes place at ScienceBlogs resonates outside the blogosphere.  ScienceBlogs is very much an experiment in science communication, and being first also means being first to encounter unforeseen obstacles.
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade

levels would you recommend this site?
It is appropriate for the general public and high school level students. The bloggers write a quick blurb (1-2 paragraphs) on an article they read from another media source (WashingtonPost, NY Times, etc.).
Then other readers express their OPINIONS about a certain topic to the blog.
<b>8. 8. What kinds of resources are found at this site?</b>
It's simply a blogging site with many media sources cited. The blogger provides a link to the media source so that you can read the complete article. At least in some of them they do...in others it's just people blogging...blogging....blogging....yawn
<b>9. 9. What is your opinion of the quality of the materials you found there?</b>
I quickly perused about 15 blogs. I did not read any of them completely. Well, actually the ones that were only 1-2 paragraphs were read and then I went out to the media source to read a more in-depth story.
I was not interested in the blogs in which people were just writing to have themselves read (like talking to hear yourself).
<b>10. 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?</b>
I only trusted the media sources such as NY Times and The Washington Post and then I always want to see where the reporter is getting his/her information from.
<b>11. 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?</b>
There are no online tools for teaching.
<b>12. 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site's purpose?</b>
It may be useful for people who have a lot of time on their hands and are reading so many blogs.
When I want good scientific reading I go out to the sites where people are publishing their research or at least to .gov or .edu sites.
<b>13. 13. Would you bookmark this site for yourself and/or your students? If yes, what would you use it for?</b>
Nope
<b>14. SUMMARY REVIEW: Please summarize your thoughts from above into one paragraph. Be sure to include: the web site name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources (www.apsarchive.org) as a review comment for this web site.</b>
I reviewed ScienceBlogs, which is created by Seed Media Group. Its URL is: <a href="http://scienceblogs.com/">http://scienceblogs.com/</a> . Since the site is a blog it is constantly being updated. ScienceBlogs is very much an experiment in science communication, which provides its bloggers the freedom to exercise their own editorial and creative instincts. Their blogs are not edited and the website developers selected its 60+ bloggers based on their originality, insight, talent, and dedication and how we think they would

contribute to the discussion at ScienceBlogs. Their role, as they see it, is to create and continue to improve this forum for discussion, and to ensure that the rich dialogue that takes place at ScienceBlogs resonates outside the blogosphere. It is appropriate for the general public and high school level students. There were no online tools for teaching. What the bloggers do is write a quick blurb (1-2 paragraphs) on an article they read from another media source (Washington Post, NY Times, etc.). Then other readers express their OPINIONS about a certain topic to the blog. I was not interested in the blogs in which people were just writing to have themselves read (like talking to hear yourself). I only trusted the media sources such as NY Times, Washington Post and then I always want to see where the reporter is getting his/her information from. It may be useful for people who have a lot of time on their hands and are reading so many blogs. When I want good scientific reading I go out to the sites where people are publishing their research or at least to .gov or .edu sites.



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## Responses

<p><b>MaryAnn Sara</b> 25-Jun-2007, 06:29:34</p>	<p>Hi Monica, This site is a new kind of resource for me. I'll give it a look.</p>
<p><b>Erin O'dya</b> 25-Jun-2007, 07:30:19</p>	<p>Nice review. It sounds like this site could be contributing to the misinformation that is out there.</p>
<p><b>Lorraine O'Shea</b> 27-Jun-2007, 13:33:37</p>	<p>Monica, I think your right on this site. I couldn't see any benefit in using it with a class except to show the difference between opinion and factual research.</p>

# Virtual Labs and Online Teaching Tools

Review  
intro  
text

Page 1

## Create Your Show N' Tell

**Virtual Labs and Online Teaching Tools**  
*by Juanita Quevedo*

## Website Review Notes

<b>1.</b> 1. What is the URL (web address)? Please doublecheck for typos!
www.chemcollective.rog
<b>2.</b> 2. What is the title of the web page (home page or index page)?
The Chemistry Collective
<b>3.</b> 3. Look at the URL to determine if the web page is housed at a commercial company (.com); educational institution (.edu); non-profit organization (.org) or government agency (.gov). If none of the above applies, can you tell whether a group, an individual or institution posted this page?
.org (non-profit)
<b>4.</b> 4. Who developed the web site? List the person and/or organization, if possible.
The National Science Foundation, NSF
<b>5.</b> 5. When was the site last updated? Does it appear to be regularly maintained and updated?
Yes. April 18, 2007
<b>6.</b> 6. Why did the author write/develop this web site? Was it to: A. provide factual information; B. influence reader opinion; and/or C. sell a product or service? The purpose may be more than one of the above...or it may difficult to discern the author's purpose.
For educational purposes; A-to provide factual information.
<b>7.</b> 7. Is the web site more appropriate for teachers, students or both? For which grade levels would you recommend this site?
Both. This website would be useful for high school-aged students and possibly for introductory level courses in the college.
<b>8.</b> 8. What kinds of resources are found at this site?
There are virtual labs that have real life application; for example, a student may practice making coffee and adding milk discerning the appropriate amounts of each solution to mix based on the ending temperature desired. Students will use online laboratory tools for the virtual lab and they may learn equipment types as well as the names of all of the tools. There is also a slide presentation about the ozone layer, describing the history behind the discovery of CFC's as a contributing factor to global warming.
<b>9.</b> 9. What is your opinion of the quality of the materials you found there?

The materials are great and seem useful. However, the virtual lab may need to be practiced a bit beforehand by the teacher and would best be taught with all students looking at a computer.

**10.** 10. If the site contains scientific material, how reliable do you find the materials? Are the materials up-to-date and accurate?

The materials are up-to-date and accurate and NSF is reliable to monitor scientific material.

**11.** 11. If the site offers online tools for teaching, how reliable do you feel the tools would be, especially over long periods of time?

It is reliable especially as it is monitored by NSF.

**12.** 12. How useful do you feel this site is for its intended users? Are the navigational tools and the graphics suitable for the site's purpose?

The site is useful for its users but may require some teacher preparation time in learning some of the tools.

**13.** 13. Would you  bookmark  this site for yourself and/or your students? If yes, what would you use it for?

I would use this website for the virtual labs and for students to obtain background information on science-related topics. It may also be a good website for students to review or critique.

**14.** SUMMARY REVIEW: Please summarize your thoughts from above into one paragraph. Be sure to include: the web site's name and URL; who produced and/or maintains it; the types of materials it contains; usefulness for teachers and/or students; and your assessment of the reliability, accuracy and usefulness of this site for science education. Note: your summary may be posted for public viewing on the APS Archive for Teaching Resources ([www.apsarchive.org](http://www.apsarchive.org)) as a review comment for this web site.

I reviewed [www.chemcollective.org](http://www.chemcollective.org). The Chemistry Collective is sponsored by the reliable National Science Foundation and is well maintained for both teacher and student use. This website would be useful for high school-aged students and possibly for introductory level courses in the college. There are virtual labs that have real life application; for example, a student may practice making coffee and adding milk discerning the appropriate amounts of each solution to mix based on the ending temperature desired. Students will use online laboratory tools for the virtual lab and they may learn equipment types as well as the names of all of the tools. There is also a slide presentation about the ozone layer, describing the history behind the discovery of CFC's as a contributing factor to global warming. The materials are great and seem useful. However, the virtual lab may need to be practiced a bit beforehand by the teacher and would best be taught with all students looking at a computer. The site is useful for its users but may require some teacher preparation time in learning some of the tools. I would use this website for the virtual labs and for students to obtain background information on science-related topics. It may also be a good website for students to review or critique.

