

Nature retains its position as the most cited weekly science journal, with over 390,000 cites, an increase of almost 18,000 on last year's count. And Nature continues to publish more articles than any other multidisciplinary journal. For 2006 Nature's impact factor is 26.681. The impact factor of a journal is calculated by dividing the number of current year citations to the source items published in that journal during the previous two years. It is an independent measure calculated by Thomson/ISI (Institute for Scientific Information), Philadelphia, USA.

UGC-Infonet Digital Library Consortium has got subscription to only the Nature Journal, which can be accessed at the member Universities through their registered IP addresses.

**Accessible to:** 80 Univ. (Phase I & II)

**Coverage:** 1997 onwards

To browse or search the journal a user should click on the Nature Journal on the homepage of Nature as shown below.

The screenshot shows the nature.com homepage. At the top, there are links for 'Publications A-Z Index' and 'Browse by subject'. On the right, there are buttons for 'Subscribe', 'Register', 'Submit Manuscript', 'My account', 'Login', and a shopping cart. Below the header, there is a large 'nature.com' logo. To the left, there is a news article about reservoir ducks. In the center, there is a large image of a duck with a DNA helix background, with the date '11 June 2013' and the name 'Ning Li'. To the right of the duck image is a circular graphic for 'Nature journal' with the title 'nature' and 'THE QUANTUM ATOM'. Below this graphic is a link to 'Contents 6 June 13' and 'Podcasts | Videos'. A red box highlights the text 'Click here to go to nature Journal'. To the right of the central content, there is a sidebar titled 'Inside nature.com' with sections for 'Publications A-Z', 'Nature.com regions', 'naturejobs.com', 'Open Innovation', 'Launchpad', 'Podcasts', and 'Society partners'. Each section has a brief description and a 'see more' link.

## Searching Nature Journal

User can search the journal by entering the search term in the top right hand side search box as shown below in screen shot. By clicking at the **GO** button the search results is displayed for that term.

**nature** International weekly journal of science

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Current Issue > Volume 498 > Issue 7452

Enter the search term at here

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CURRENT ISSUE

Volume 498 Number 7452 pp5-132 6 June 2013

**nature** THE QUANTUM ATOM

About the cover ▾

THIS WEEK

- Editorials
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COMMENT

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Max Planck Institute for Intelligent Systems

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## Search Results

The search results screen is shown below. From this screen, users can select the sort option to sort the search result in the desired order. By selecting the **Abstract**, **Full Text**, **PDF** users can view the required format of the article. Users can also refine their search by selecting the subject at the right side on the search result screen. To Save the search users can click on the save search option given on top of the results. User has to register with Nature to save their searches.

**nature** International weekly journal of science

Click here to see statistics SCIENTIFIC REPORTS

Save Search

Search stem cell

Advanced search

Results: 1-25 of 15,460 Sort by Relevance Display 25 results per page

These sites may be of interest to you:

- Nature Collections Ageing
- Poster on Molecular mechanisms of stem-cell identity and fate by Nature Reviews Cancer/Nature Reviews Molecular Cell Biology
- Poster on Haematopoietic stem cells, niches and differentiation pathways from Nature Reviews Immunology
- Focus on early lymphocyte development in Nature Reviews Immunology
- Cancer Nature Collection

Advanced Search

Publication Date

Search through publication Date

Click here to see details of the article

User can download pdf file, send this article to a friend via email, view interactive pdf in ReadCube, etc.

Search

go Advanced search

[Journal home](#) > [Archive](#) > [Insight](#) > [Review Article](#) > [Full Text](#)
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- [+ Advance online publication](#)
- [+ Current issue](#)
- [+ Nature News](#)
- [+ Archive](#)
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**Insight**

Nature 462, 433-441 (26 November 2009) | doi:10.1038/nature08602; Published online 25 November 2009

**Review Article**
**Designing materials to direct stem-cell fate**

 Matthias P. Lutolf<sup>1</sup>, Penney M. Gilbert<sup>2</sup> & Helen M. Blau<sup>2</sup>

Proper tissue function and regeneration rely on robust spatial and temporal control of biophysical and biochemical microenvironmental cues through mechanisms that remain poorly understood. Biomaterials are rapidly being developed to display and deliver stem-cell-regulatory signals in a precise and near-physiological fashion, and serve as powerful artificial microenvironments in which to study and instruct stem-cell fate both in culture and *in vivo*. Further synergism of cell biological and biomaterials technologies promises to have a profound impact on stem-cell biology and provide insights that will advance stem-cell-based clinical approaches to tissue regeneration.

[▲ Top](#)

Stem cells are defined by their ability to self-renew and produce specialized progeny<sup>1,2</sup>. Consequently, they are the most versatile and promising cell source for the regeneration of aged, injured and diseased tissues. Embryonic stem cells, induced pluripotent stem cells and adult stem cells are obtained from three different sources and have different advantages (Fig. 1). However, despite the remarkable potential clinical applications of each of these stem-cell populations, their use is currently hindered by hurdles that must be cleared<sup>3</sup>.

**FULL TEXT**

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## Advanced Search

Advanced search can be done on the homepage of nature or at the search result screen. The advanced search page looks like the screenshot given below. Enter desired keywords in respective field search boxes and select required options as shown in the window given below and click on **Search** button. The search results screen will appear as described before.

### nature.com search

Site Search
Saved Searches

Search Term(s):

You are currently searching in **Nature**

Search specific journals by selecting from this list, or leave blank to search all of nature.com

Hide journal list | Deselect All (Search all of nature.com)

Acta Pharmacologica Sinica  
 advertising @ NPG  
 The American Journal of Gastroenterology  
 The American Journal of Gastroenterology Supplements  
 Asian Journal of Andrology  
 authors & referees @ NPG  
 Bioentrepreneur  
 Blogs  
 Blood Cancer Journal  
 Bone Marrow Transplantation  
 BoneKEy Reports  
 British Dental Journal  
 British Journal of Cancer  
 Cancer Gene Therapy  
 Cell Death & Differentiation  
 Cell Death & Disease

Molecular Therapy  
 Molecular Therapy Nucleic Acids  
 Mucosal Immunology  
 Nature
 

- News from Nature
- Nature Biotechnology
- Nature Cell Biology
- Nature Chemical Biology
- Nature Chemistry
- Nature China (International Site)
- Nature Climate Change
- Nature Communications
- Nature Digest
- Nature Genetics
- Nature Geoscience
- Nature Immunology

**Note:** Since UGC-Infonet has got subscription for only the **Nature** journal, users will select Nature only from **Select journals from a list**.

The **Saved Searches** option allows a registered user to view the previous searches saved by a user.

## Browse by Subject

A user can browse the journal by subject or by the specific journal issue. When the user browses by the subject, it appears as a screen given below.

The screenshot shows the nature.com subject areas page. At the top, there are advertisements for "I seek justice. Forensic Genomics" and "illumina". On the right, there are links for "My account", "E-alert sign up", "Register", and "Subscribe". Below the header, there is a search bar with "Search" and "Advanced search" options. The main content area is titled "nature.com subject areas" and features five categories: Chemistry, Clinical Practice & Research, Earth & Environment, Life Sciences, and Physical Sciences. The Chemistry category is highlighted with a red circle around the "Chemistry" link. Under Chemistry, there are links for "Drug discovery", "Biotechnology", "Materials", "Methods and Protocols", "Cancer", "Cardiovascular medicine", "Dentistry", "Endocrinology", "Gastroenterology and Hepatology", "Methods and Protocols", "Pathology and Pathobiology", and "Urology".

Here the user has to choose his subject of interest and click on the subject. The screenshot for browsing the subject area **Chemistry** is given below. It shows the name of Nature Journals for Chemistry and some featured articles. By clicking on these articles it gives the full text view of the article and clicking the Journal name leads the user to the Journal Home Page.

## Browsing Nature

On the Homepage of Nature Journal as shown above user can browse the current issues or the archival issues of the Journal by clicking on the **Archive** as shown below in screen shot.

Date	Page 1	Page 2	Page 3
6 June 2013	498	7452	8-132
30 May 2013	497	7451	538-658
23 May 2013	497	7450	S1-S20
23 May 2013	497	7450	412-530
16 May 2013	497	7449	290-402
9 May 2013	497	7448	160-282
2 May 2013	497	7447	8-152
25 April 2013	496	7446	400-542
18 April 2013	496	7445	272-392
11 April 2013	496	7444	140-264
4 April 2013	496	7443	8-132
28 March 2013	495	7442	412-544
21 March 2013	495	7441	284-404
14 March 2013	495	7440	S1-S16
14 March 2013	495	7440	144-276
7 March 2013	495	7439	8-134

The desired issue is shown on the screen with its table of content followed by each article with few lines about the articles. By clicking on the particular article, then click on **Download PDF**, the user can view the full text in HTML or PDF format.

The screenshot shows the Table of Contents page of the Nature journal. At the top, there's a navigation bar with links like Home, News & Comment, Research, Careers & Jobs, Current Issue, Archive, Audio & Video, and For Authors. Below the navigation is a banner for a survey to win a MacBook Air. The main content area features a large image of the journal cover with the title 'nature' and 'THE HIV-1 CAPSID'. To the right of the cover is a 'TABLE OF CONTENTS' section with a list of articles and their authors. A red box highlights the 'Download PDF' button next to the article 'Still less equal'.

## Advance Online Publication

The **Advance Online Publication (AOP)** gives a view of the articles before print publication with their date of online publication.

The screenshot shows the 'LATEST RESEARCH BY SUBJECT' section of the Nature journal website. It features a grid of research articles from various fields. A red box highlights the 'See all biological sciences' link at the top of the biological sciences column.

## My Account

The **My Account** page gives the user the facilities to subscribe the Journal online, create e-mail alerts for table of contents (TOC), and manage their account and to save the searches. To access My Account the users have to first create an account by registering their name.

# nature.com

[► Advanced search](#)

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* Name	<input type="text" value="Roma"/>	Asnani
* E-mail address	<input type="text" value="roma@inflibnet.ac.in"/> A confirmation email will be sent to this address	
* Password	<input type="password" value="*****"/>	Password Strength <span style="background-color: #ccc; width: 100px; height: 15px; display: inline-block;"></span>
* Confirm password	<input type="password" value="*****"/> <span style="color: green;">✓</span>	
* Terms and conditions	<input checked="" type="checkbox"/> * I agree to the terms and conditions ( <a href="#">Printable version</a> ) <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <b>Nature Terms and Conditions</b>  <small>These Terms and Conditions ("Terms") apply to the Nature.com website and all other websites operated by Nature Publishing Group (the "Site") including, by way of example, <a href="#">nature.com</a>, <a href="#">nature.net</a>, <a href="#">naturepro.com</a>, <a href="#">natureprotocols.com</a>, <a href="#">naturecommunications.com</a>.</small> </div>	

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Help us customize our services to meet your interests.

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* Affiliation/Employer	<input type="text" value="INFLIBNET Centre"/>	How do we know this?
------------------------	---	----------------------

The registration page looks like the above form. Here the user has to give his/her personal information and other details. After creating the account a user can get the Account facilities. When a user logs in to his account page he/she can manage his profile, address book, subscription details and e-alerts. Here it gives a view of the search history saved by a user.



# nature.com my account

Search

Go

[Advanced search](#)

Profile | Alerts | Subscriptions and Purchases | Saved Searches

## Saved Searches

Your Saved Searches:

Title		Last searched	Schedule	
biology	Edit	12 June 2013	<input type="button" value="Never"/> <input type="checkbox"/>	Delete
Stems+cell	Edit	12 June 2013	<input type="button" value="Never"/> <input type="checkbox"/>	Delete
Stems+cell	Edit	12 June 2013	<input type="button" value="Never"/> <input type="checkbox"/>	Delete

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# Autumn Books

## Picture Books, Beginning Readers, and Board Books

**Aaron Loves Apples and Pumpkins**· Eastman, P.D.

**Find It: E BR EAS**

Aaron the alligator cannot seem to do anything right, whether it be playing hide-and-seek, picking apples, or playing football.

**And Then Comes Halloween**· Brenner, Tom

**Find It: E HOL HAL BRE**

"When nighttime creeps closer to suppertime and the sky is that certain deep blue-- then it's time to get ready for Halloween!"-

**Apples and Pumpkins**· Rockwell, Anne F.

**Find It: E HOL HAL ROC**

In preparation for Halloween night, a family visits Mr. Comstock's farm to pick apples and pumpkins.

**Applesauce Season**· Lipson, Eden Ross

**Find It: E LIP**

In an urban setting, the story of how a family gets together to cook apples for applesauce. Includes a recipe for applesauce to help you create your own traditions.

**The Autumn Leaf**· Emerson, Carl

**Find It: E BR EME**

"Emma and Owen visit Old Oak at the park. It is autumn, and the leaves are falling from the trees. Only one leaf is left. Will it fall, too?"--P. [4] of cover.

**Fall Leaves** · Slegers, Liesbet

**Find It: E Board Book SLE**

A child points out the things he sees and does on a brisk fall day.

**Fall Mixed Up** · Brzczka, Bob

**Find It: E RAC**

The delights of autumn are described in mixed-up verse and illustrations, and the reader is challenged to uncover the errors.

**Full of Fall** · Sayre, April Pulley

**Find It: E SAY**

Simple text and photographs explore the science behind the transformation that trees undergo in the fall.

**George Flies South** · James, Simon

**Find It: E JAM**

George does not feel ready to learn to fly, leave his nest, and go south with the other birds, despite his mother's encouragement. But when a strong autumn wind gets hold of the nest, he may have no choice.

**In the Middle of Fall** · Henkes, Kevin

**Find It: E HEN**

Everything is yellow, red, orange. Everything is chilly, frisky, gusty. Everything is changing, turning. It's the middle of Fall. Can you see it? Can you taste it? Can you smell it? Can you imagine it?

**It's Time to Sleep, It's Time to Dream** · Adler, David

**Find It: E ADL**

A parent lulls a child to sleep with visions of soft spring breezes, lazy summer days, cool autumn winds, and moon-lit winter nights.

**The Lion and the Bird** · Dubuc, Marianne

**Find It: E DUB**

"A lion finds a wounded bird in his garden and decides to care for it through the winter. When spring arrives, the bird's flock returns. The bird goes off with its flock. Lion is sad. But autumn brings a wonderful surprise"-- Provided by publisher.

**Little Kunoichi: The Ninja Girl** · Ishida, Sanae

**Find It: E ISH**

Little Kunoichi works hard and wows the crowd at the Autumn Festival.

**Mooncakes** • Seto, Loretta

**Find It: E SET**

A little girl celebrates the Chinese Moon Festival with her parents, who tell her three legends about the moon while they eat mooncakes and drink tea.

**Mr. Putter and Tabby Ring the Bell** • Rylant, Cynthia

**Find It: E BR RYL**

While enjoying autumn weather and activities, Mr. Putter, realizing how much he misses going to school, takes his cat Tabby, their adventurous neighbor, Mrs. Teaberry, and her cake-loving dog Zeke to "Show and Tell."

**My Autumn Book** • Yee, Wong Herbert

**Find It: E YEE**

A young girl rushes outside when the air is crisp and the sky turns gray to observe all of the changes that autumn brings.

**My Leaf Book** • Wellington, Monica

**Find It: E WEL**

"A young girl visits an arboretum in the autumn to collect fallen leaves. She identifies various trees by the shapes of their leaves and pastes her collection into her own leaf book"-- Provided by publisher.

**My Name is Elizabeth!** • Dunklee, Annika

**Find It: E DUN**

One autumn day, Elizabeth learns an important lesson about tact and grace.

**Pumpkin Countdown** • Holub, Joan

**Find It: E COU HOL**

When Miss Blue's class visits Farmer Mixenmatch's Pumpkin Patch, the students find many ways to have fun and a lot of things to count.

**Thanking the Moon: Celebrating the Mid-autumn moon festival** • Lin, Grace

**Find It: E LIN**

Each member of a Chinese family contributes to the celebration of the Mid-Autumn Moon Festival. Includes author's note explaining this festival's customs and traditions.

**Windows** • Denos, Julia

**Find It: E DEN**

Walking his dog at dusk, one boy catches glimpses of the lives around him in this lovely ode to autumn evenings, exploring your neighborhood, and coming home.

**Winter is Coming** • Johnston, Tony

**Find It: E JOH**

Each day, from September through November, brings glimpses of forest animals seeking food in preparation for the onset of winter, from a fox sniffing the last apple on the ground to a flock of wild turkeys that finds nothing.

**Yellow Time** • Stringer, Lauren

**Find It: E STI**

"A lyrical ode to that magical time in autumn when the leaves turn yellow"-- Provided by publisher.

## Easy Non-Fiction

**Animals in Fall: Preparing for Winter** · Rustad, Martha E. H.

**Find It: E 591.56 RUS**

Find out what animals do to get ready for winter.

**Awesome Autumn** · Goldstone, Bruce

**Find It: E 508.2. GOL**

Simple text and photographs explore the science behind the transformation that trees undergo in the fall.

**Fall** · Smith, Sian

**Find It: E 508.2 SIA**

Explanation of typical fall activities and changes in the natural world

**Fall** · Brundle, Harriet

**Find It: E 508.2 BRU**

Spectacular nature photographs capture the beauty of fall. Key features of the season are highlighted.

**Fall Leaves: Colorful and Crunchy** · Rustad, Martha E.H.

**Find It: E 581.48 RUS**

Discusses the life cycle of leaves, describes how they change color in the fall, and provides instructions for an autumn art project.

**From Apple Trees to Cider, Please!** · Chernesky, Felicia Sanzari

**Find It: E 641.2 CHE**

A realistic account of how apple cider is pressed.

**The Lifecycle of an Apple** · Thomson, Ruth

**Find It: E 634.11 THO**

Learn about the lifecycle of an apple from seed to fruit.

## J Fiction Chapter Books

**Aru Shah and The End of Time** · Chokshi, Roshani

**Find It: J CHO**

Aru Shah will be spending her autumn break at the museum her mom curates.

**Autumn the Falling Leaves Fairy** · Meadows, Daisy

**Find It: J SER RAI SPE #22**

Rachel and Kirsty love the fall! They can't wait to go apple picking, carve pumpkins, and take a hayride. But this fall, everything is going all wrong, because Autumn the Falling Leaves Fairy's magic is missing! Can the girls help her outsmart Jack Frost and his goblins, and make sure that fall is fun again?" -- from publisher's description.

**Autumn's Secret Gift** · Allen, Elise

**Find It: J SER ENC #1**

In Mother Nature's realm, sisters Autumn, Winter, Spring, and Summer are nature's royalty, responsible for each magical turn of the seasons, but Autumn has lost a special gift from Mother Nature and her sisters must help her find it.

**The Best Bear in All the World** · Milne, A.A.

**Find It: J MIL**

Four brand new stories about Winnie-the-Pooh, Christopher Robin, and their friends. Winnie-the-Pooh and Piglet, meet a dragon, and then go on a quest to discover the "Sauce of the Nile"; all the animals rally around poor Eeyore when he thinks he sees another donkey eyeing his clover; a penguin arrives in the Hundred Acre Wood during the winter.

**Girls Acting Catty** · Margolis, Leslie

**Find It: J SER ANN #2**

Sixth-grader Annabelle spends autumn coping with competing groups of friends at school, her mother's pre-wedding stress, learning to get along with a cute stepbrother-to-be, and such momentous events as wearing her first bra and learning to shave her legs

**The Marble Queen** · Blake, Stephanie

**Find It: J BLA**

In 1959, ten-year-old Freedom Jane McKenzie wants to enter and win the marble competition at the Autumn Jubilee and win the title of Marble Queen, but first she must convince Mama that competing with boys is okay.

**This Was Our Pact** · Andrews, Ryan

**Find It: J GN THI**

Ben and his friends are determined to find out where the paper lanterns of the annual Autumn Equinox Festival go, so they follow the river as far as they can until the only followers left are Ben and Nathaniel.

## **J Non-Fiction**

**Connor and Clara Build a Concrete Poem** · Atwood, Megan

**Find It: J 808.1 ATW**

On an autumn day, two friends play together and one teaches the other how to write concrete poems. Includes creative writing exercises to assist the reader in writing concrete poems"

**Projects with Weather and Seasons** · Powell, Jillian

**Find It: J 745.5 POW**

Explanation of weather and seasons and related craft projects.

**The Kid's Guide to Exploring Nature** · Smith, Marilyn

**Find It: J 508 SMI**

Information about plants and animals in their natural habitats in all four seasons.

**The Nitty Gritty Gardening Book** · Cornell, Kari

**Find It: J 635 COR**

Gardening projects for various seasons.

## **CDs and DVDs**

**Celebrate Fall!**

**Find It: J DVD FEATURE CELE**

Seven seasonal adventures with the Nick Jr. pals

**Charlie and Lola Vol 9: What Can I Wear for Halloween?** · Child, Lauren

**Find It: J DVD HOLIDAY CHAR**

Charlie has a small and very funny sister named Lola. Though her behavior may be irksome, her heart is always in the right place. Lucky for her, Charlie is always there to help lead her in the right direction.

**The Little Old Lady Who Was Not Afraid of Anything** · Williams, Linda

**Find It: E CD-KIT WIL**

Once upon a time there was a little old lady who not afraid of anything! But one autumn night the little old lady who was not afraid of anything had the scare of her life.

**Wubbzy Goes Boo!** · Boyle, Bob

**Find It: J DVD HOLIDAY WOW**

Wubbzy, Widget, and Walden pick pumpkins, create Halloween costumes, gather leaves and use a magic wand.

# Importance of Nature

Zitlahlyc Heredia  
Academic Coach  
USC Kortschak Center for Learning and Creativity





## Learning Outcomes

- Familiarize yourself with how nature can impact your well-being.
- Incorporate nature into practices of mindfulness and self-care.
- Understand nature's benefit on our mental health.



# Importance of Nature

- Being in nature allows one to (Bratman et al., 2012):
  - De-stress
  - Focus on the moment
  - Elevate positive emotions
- 5 Types of Nature (Bratman et al., 2012):
  - Countryside/farmland
  - Water Bodies
  - Urban Green
  - Forest/woodlands
  - Wilderness

Photo cited from: Google Images



## Benefits of Nature

- Nature provides the following benefits:
  - Sense of calm, energy, or focus.
  - Reduce feelings of anxiety and stress.
  - Social meeting place.
- Greenleaf et. al, 2013 found that it is also helpful to access nature through technology (phone, tablet, laptop):
  - Ringtones
  - Calming sounds
  - Background noise
  - E-mail or browser themes

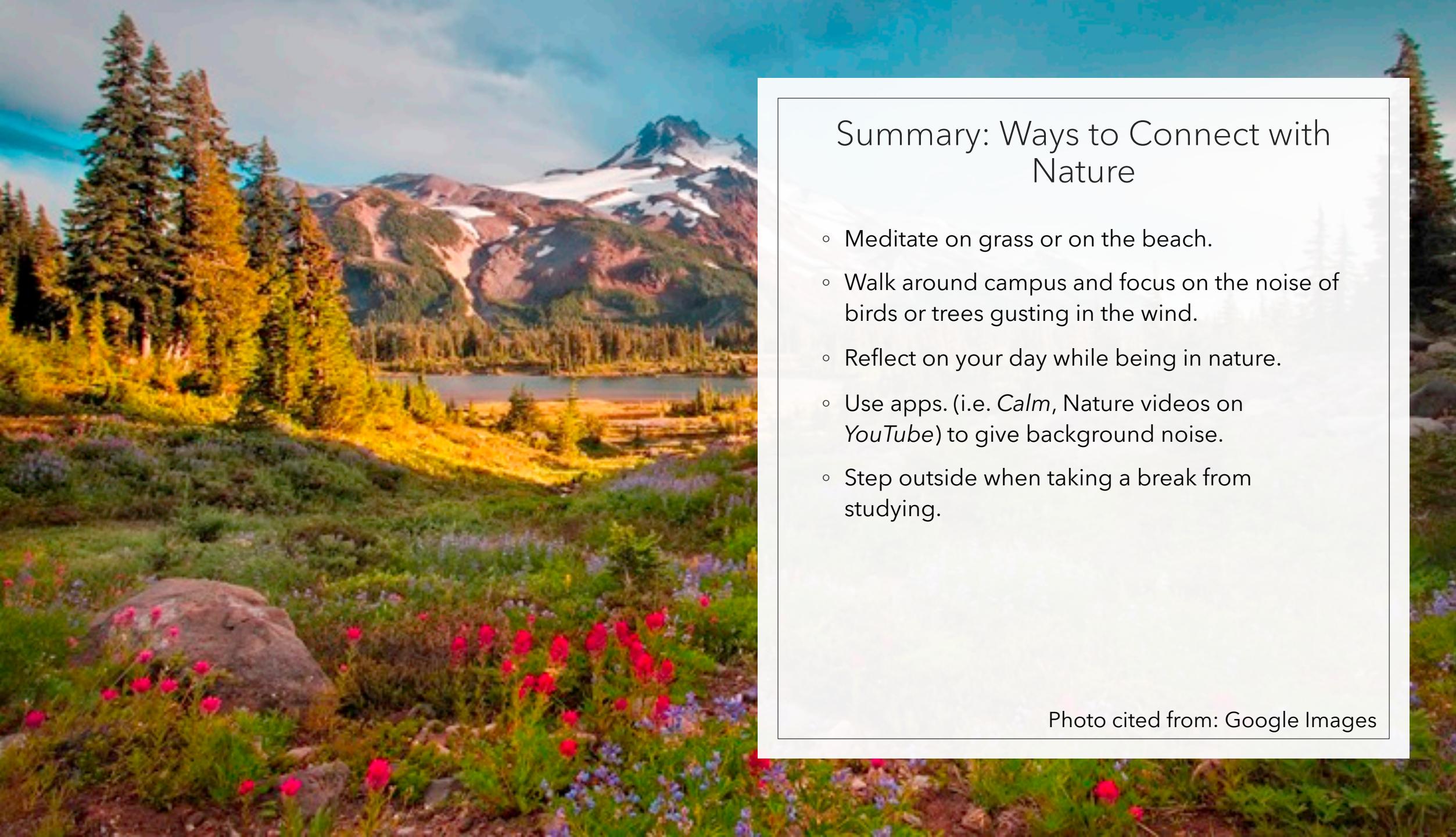
Photo cited from: Google Images



# Natural Therapy

- Light Therapy (Sloane et al., 2008)
  - Helps with depression, sleep disorders, and Seasonal Affective Disorder (SAD).
  - In the morning / early evening spend some time in the sunlight.
- Horticultural Therapy (Greenleaf et al., 2013)
  - Grow your own or join a community vegetable garden.
    - Urban and Parkside Gardens at USC
  - Start a small plant or flower section in your home, dorm, or workspace.

Photo cited from: Google Images



## Summary: Ways to Connect with Nature

- Meditate on grass or on the beach.
- Walk around campus and focus on the noise of birds or trees gusting in the wind.
- Reflect on your day while being in nature.
- Use apps. (i.e. *Calm*, Nature videos on *YouTube*) to give background noise.
- Step outside when taking a break from studying.

Photo cited from: Google Images

# References

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## Images:

- <https://www.youtube.com/watch?v=f77SKdyn-1Y>
- <https://www.youtube.com/watch?v=Nd7e4SNjGBM>
- <https://www.pinterest.com/pin/426293920955319931/>
- <https://oregonwild.org/wilderness>