

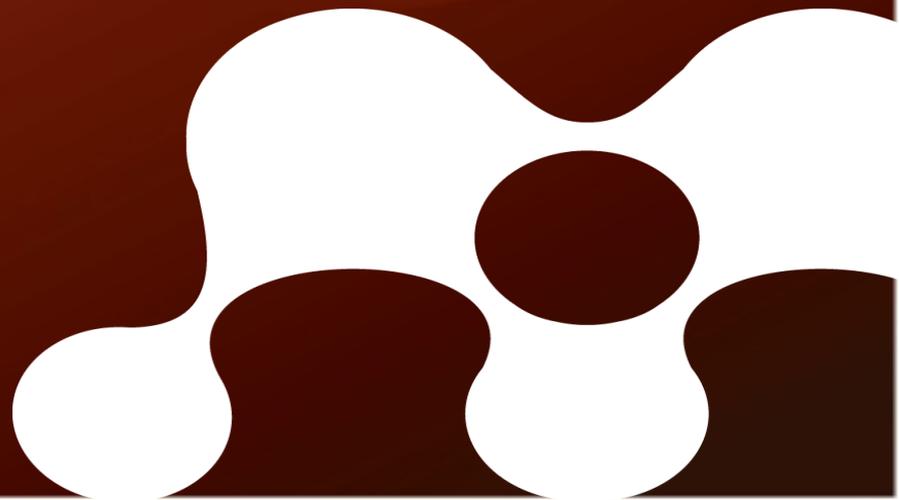
# MENDELEY

[www.mendeley.com](http://www.mendeley.com)

Иванов Иван

аспирант кафедры точных наук

3 июня 2011



- Что такое Менделей?
- Создание личной библиотеки
- Управление документами и библиографией
- Создание списка литературы
- Делимся статьями и участвуем в группах

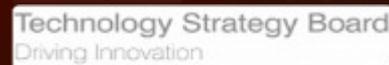
Что такое Менделей?

Расположен в Лондоне, Менделей - это более 30 исследователей, студентов и разработчиков ПО из ...



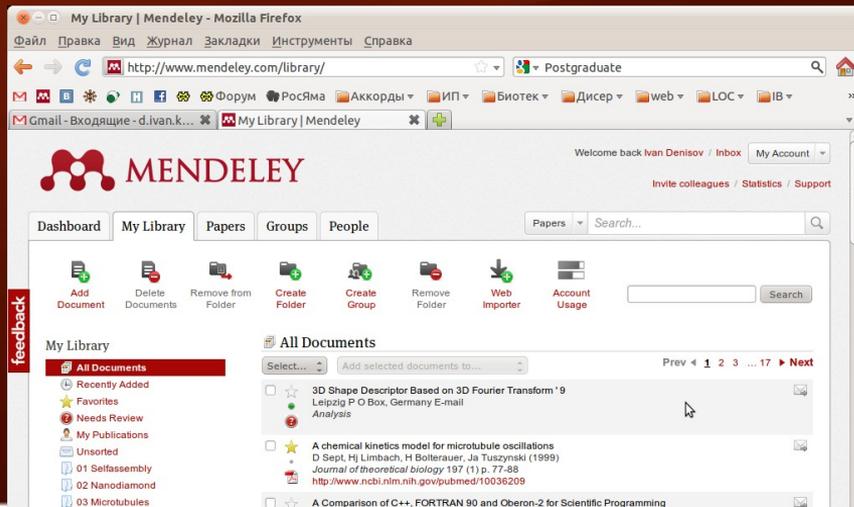
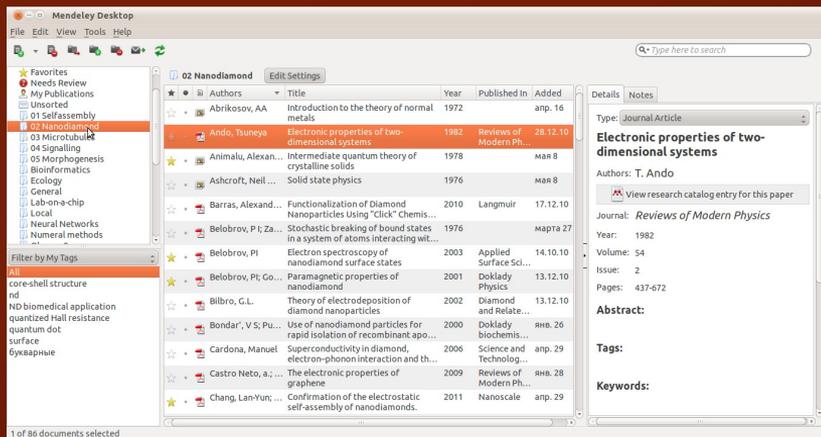
Спонсоры:

... на подмоге основатели и менеджеры:

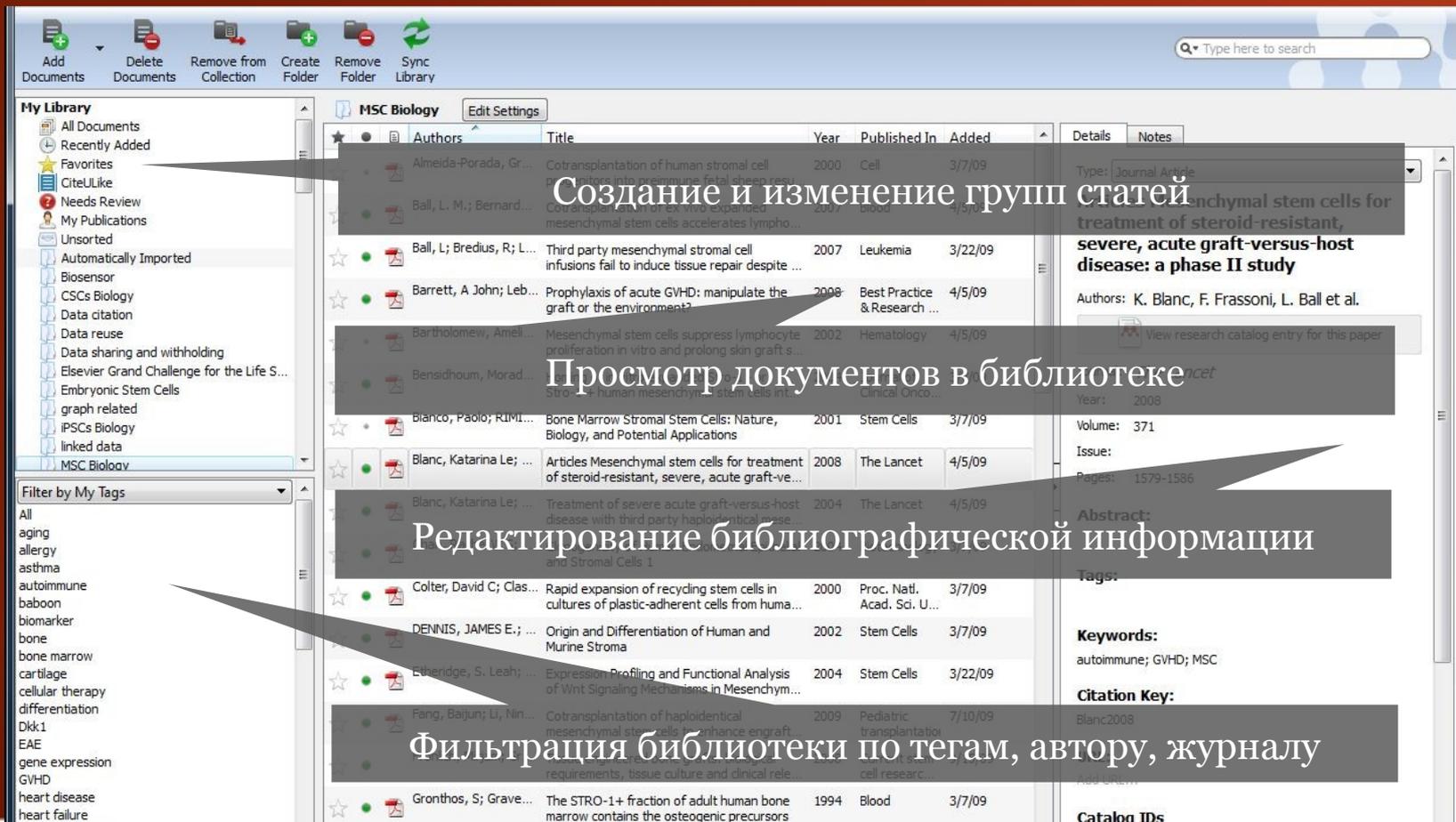


1. Свободное академическое кроссплатформенное ПО для управления, расшаривания, чтения, аннотирования и цитирования научных статей.

2. Социальная сеть для доступа к коллекциям публикаций онлайн, исследования трендов и статистики в вашей области, а также общения с единомышленниками.



Создание личной библиотеки!



The screenshot shows the Mendeley Desktop interface with a library named "MSC Biology". The interface includes a top toolbar with actions like "Add Documents", "Delete Documents", "Remove from Collection", "Create Folder", "Remove Folder", and "Sync Library". A search bar is located in the top right corner.

The left sidebar shows the "My Library" structure, including "All Documents", "Recently Added", "Favorites", "CiteULike", "Needs Review", "My Publications", "Unsorted", "Automatically Imported", "Biosensor", "CSCs Biology", "Data citation", "Data reuse", "Data sharing and withholding", "Elsevier Grand Challenge for the Life S...", "Embryonic Stem Cells", "graph related", "iPSCs Biology", "linked data", and "MSC Biology". Below this is a "Filter by My Tags" section with a list of tags such as "aging", "allergy", "asthma", "autoimmune", "baboon", "biomarker", "bone", "bone marrow", "cartilage", "cellular therapy", "differentiation", "Dkk1", "EAE", "gene expression", "GVHD", "heart disease", and "heart failure".

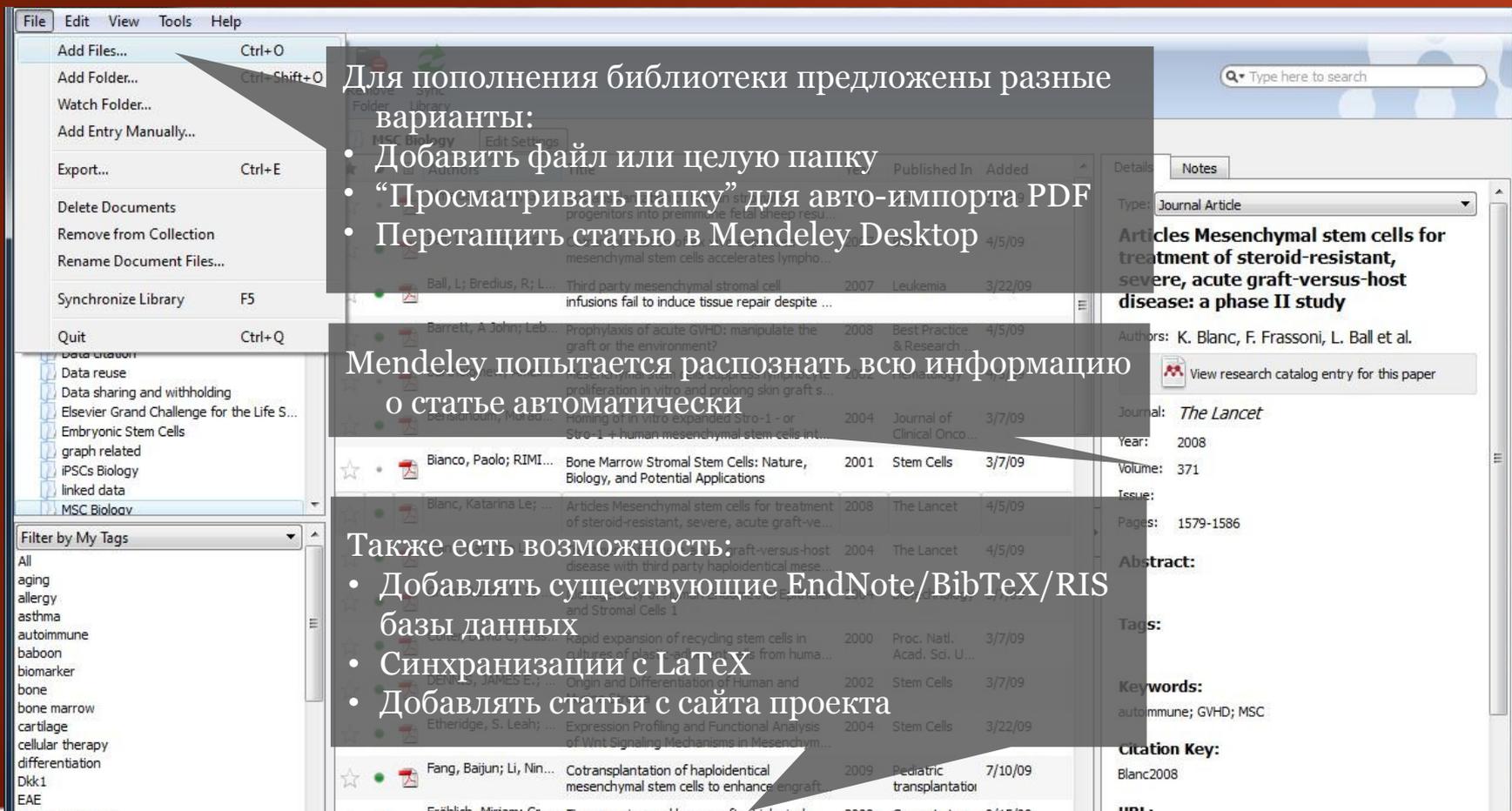
The main area displays a list of articles with columns for "Authors", "Title", "Year", "Published In", and "Added". A table of articles is shown below:

Authors	Title	Year	Published In	Added
Almeida-Porada, Gr...	Cotransplantation of human stromal cell...	2000	Cell	3/7/09
Ball, L. M.; Bernard...	Cotransplantation of ex vivo expanded mesenchymal stem cells accelerates lympho...	2007	blood	4/5/09
Ball, L; Bredius, R; L...	Third party mesenchymal stromal cell infusions fail to induce tissue repair despite ...	2007	Leukemia	3/22/09
Barrett, A John; Leb...	Prophylaxis of acute GVHD: manipulate the graft or the environment?	2008	Best Practice & Research ...	4/5/09
Bartholomew, Amel...	Mesenchymal stem cells suppress lymphocyte proliferation in vitro and prolong skin graft s...	2002	Hematology	4/5/09
Bensidhoum, Morad...	Stromal cell derived factor-1 promotes human mesenchymal stem cells in...	2004	Clinical Onco...	4/5/09
Blanco, Paolo; RIMI...	Bone Marrow Stromal Stem Cells: Nature, Biology, and Potential Applications	2001	Stem Cells	3/7/09
Blanc, Katarina Le; ...	Articles Mesenchymal stem cells for treatment of steroid-resistant, severe, acute graft-ve...	2008	The Lancet	4/5/09
Blanc, Katarina Le; ...	Treatment of severe acute graft-versus-host disease with third party haploidentical mes...	2004	The Lancet	4/5/09
Colter, David C; Clas...	Rapid expansion of recycling stem cells in cultures of plastic-adherent cells from huma...	2000	Proc. Natl. Acad. Sci. U...	3/7/09
DENNIS, JAMES E.; ...	Origin and Differentiation of Human and Murine Stroma	2002	Stem Cells	3/7/09
Eberidge, S. Leah; ...	Expression Profiling and Functional Analysis of Wnt Signaling Mechanisms in Mesenchym...	2004	Stem Cells	3/22/09
Fang, Baijun; Li, Ni...	Cotransplantation of haploidentical mesenchymal stem cells enhance engraft...	2009	Pediatric transplantation	7/10/09
Gronthos, S; Grave...	The STRO-1+ fraction of adult human bone marrow contains the osteogenic precursors	1994	Blood	3/7/09

Annotations on the screenshot include:

- Создание и изменение групп статей**: Points to the "MSC Biology" library name and the "Edit Settings" button.
- Просмотр документов в библиотеке**: Points to a document entry in the list.
- Редактирование библиографической информации**: Points to the "Details" tab and the "Notes" column.
- Фильтрация библиотеки по тегам, автору, журналу**: Points to the "Filter by My Tags" section and the "Authors" column.

The right sidebar shows details for a selected article, including "Type: Journal Article", "Authors: K. Blanc, F. Frassoni, L. Ball et al.", "Volume: 371", "Issue:", "Pages: 1579-1586", "Abstract:", "Tags:", "Keywords: autoimmune; GVHD; MSC", "Citation Key: Blanc2008", and "Catalog IDs".



File Edit View Tools Help

- Add Files... Ctrl+O
- Add Folder... Ctrl+Shift+O
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- Remove from Collection
- Rename Document Files...
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- Quit Ctrl+Q

Для пополнения библиотеки предложены разные варианты:

- Добавить файл или целую папку
- “Просматривать папку” для авто-импорта PDF
- Перетащить статью в Mendeley Desktop

Mendeley попытается распознать всю информацию о статье автоматически

Также есть возможность:

- Добавлять существующие EndNote/BibTeX/RIS базы данных
- Синхронизации с LaTeX
- Добавлять статьи с сайта проекта

Articles Mesenchymal stem cells for treatment of steroid-resistant, severe, acute graft-versus-host disease: a phase II study

Authors: K. Blanc, F. Frassoni, L. Ball et al.

Journal: *The Lancet*

Year: 2008

Volume: 371

Issue:

Pages: 1579-1586

Abstract:

Tags:

Keywords: autoimmune; GVHD; MSC

Citation Key: Blanc2008

Author	Title	Year	Journal	Date Added
Ball, L; Bredius, R; L...	Third party mesenchymal stromal cell infusions fail to induce tissue repair despite ...	2007	Leukemia	3/22/09
Barrett, A John; Leb...	Prophylaxis of acute GVHD: manipulate the graft or the environment?	2008	Best Practice & Research	4/5/09
Bianco, Paolo; RIMI...	Bone Marrow Stromal Stem Cells: Nature, Biology, and Potential Applications	2001	Stem Cells	3/7/09
Blanc, Katanna Le; ...	Articles Mesenchymal stem cells for treatment of steroid-resistant, severe, acute graft-ve...	2008	The Lancet	4/5/09
	graft-versus-host disease with third party haploidentical mese...	2004	The Lancet	4/5/09
	and Stromal Cells 1	2000	Proc. Natl. Acad. Sc. U...	3/7/09
	rapid expansion of recycling stem cells in cultures of pluripotent cells from huma...	2002	Stem Cells	3/7/09
	Origin and Differentiation of Human and	2002	Stem Cells	3/7/09
	Expression Profiling and Functional Analysis of Wnt Signaling Mechanisms in Mesenchym...	2004	Stem Cells	3/22/09
Fang, Baijun; Li, Nin...	Cotransplantation of haploidentical mesenchymal stem cells to enhance engraft...	2009	Pediatric transplantation	7/10/09

Details Notes

Year: 2008

Volume: 371

Issue:

Pages: 1579-1586

**Abstract:**

**Tags:**

**Keywords:**  
autoimmune; GVHD; MSC

**Citation Key:**  
Blanc2008

**URL:**  
Add URL...

**Catalog IDs**

ArXiv ID:

DOI:

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Введите DOI, PubMed, или ArXiv ID и нажмите на увеличительное стекло

Details Notes

haemopoietic-stem-cell transplantation. METHODS: Patients with steroid-resistant, severe, acute GVHD were treated with mesenchymal stem cells, derived with the European Group for Blood and Marrow Transplantation ex-vivo expansion procedure, in a multicentre, phase II experimental study. We recorded response, transplantation-related deaths, and other adverse events for up to 60 months' follow-up from infusion of the cells. FINDINGS: Between October, 2001, and October, 2005, 55 patients were treated. The

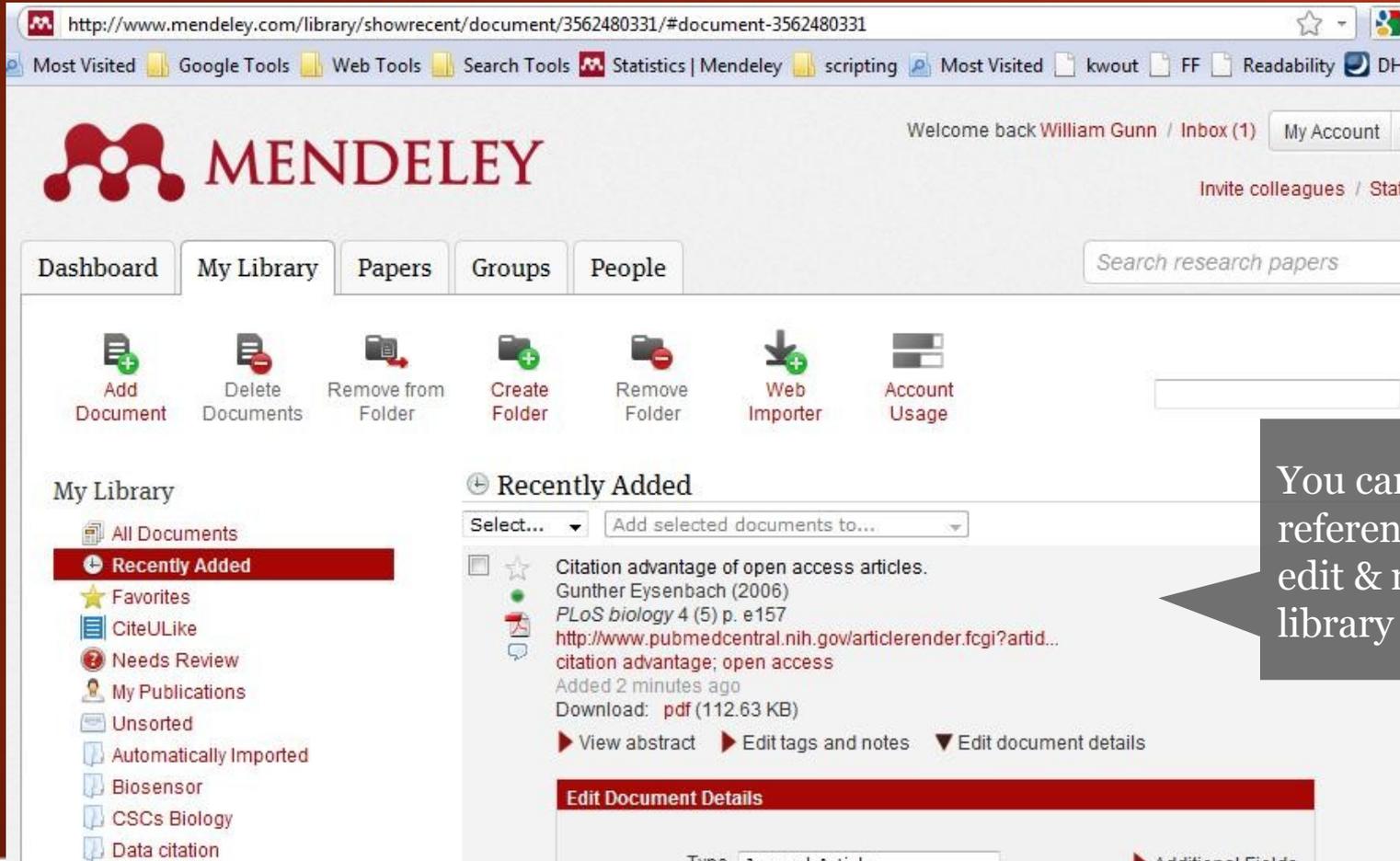
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Adult; Child; Female; Follow-Up Studies; Graft vs Host Disease; Graft vs Host Disease: classification; Graft vs Host Disease: mortality; Graft vs Host Disease: therapy; Hematopoietic Stem Cell Transplantation; Hematopoietic Stem Cell Transplantation: adverse effects; Histocomp...

**Citation Key:**  
Blanc2008

**URL:**  
 <http://www.ncbi.nlm.nih.gov/pubmed/18468541> 

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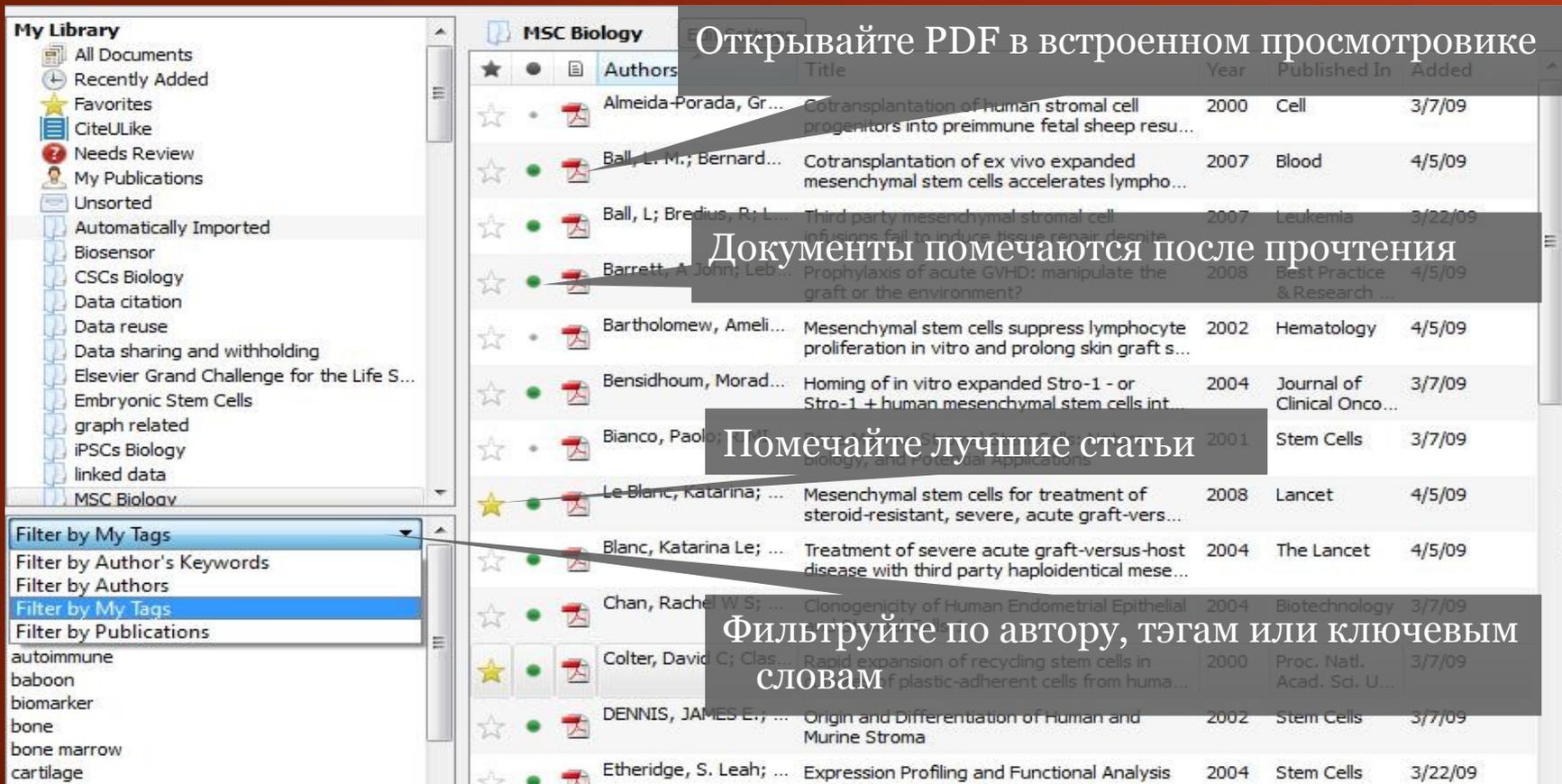
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- Embryonic Stem Cells
- graph related
- iPSCs Biology
- linked data
- MSC Biology

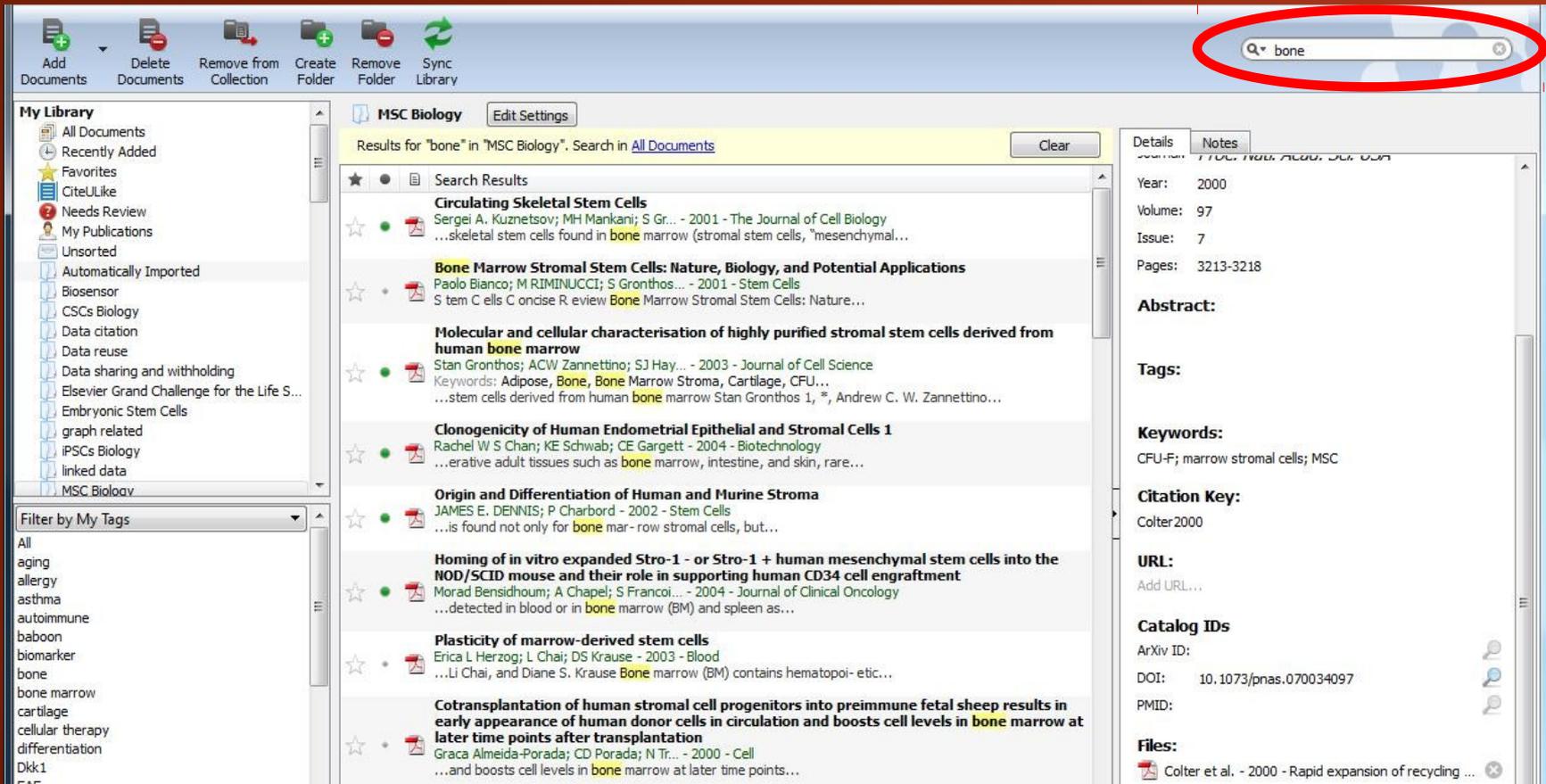
**MSC Biology**

Star	PDF	Authors	Title	Year	Published In	Added
☆	📄	Almeida-Porada, Gr...	Cotransplantation of human stromal cell progenitors into preimmune fetal sheep resu...	2000	Cell	3/7/09
☆	📄	Ball, L. M.; Bernard...	Cotransplantation of ex vivo expanded mesenchymal stem cells accelerates lympho...	2007	Blood	4/5/09
☆	📄	Ball, L; Bredius, R; L...	Third party mesenchymal stromal cell... intrafemoral cell to induce the generation of...	2007	Leukemia	3/22/09
☆	📄	Barrett, A John; LeB...	Prophylaxis of acute GVHD: manipulate the graft or the environment?	2008	Best Practice & Research ...	4/5/09
☆	📄	Bartholomew, Ameli...	Mesenchymal stem cells suppress lymphocyte proliferation in vitro and prolong skin graft s...	2002	Hematology	4/5/09
☆	📄	Bensidhoum, Morad...	Homing of in vitro expanded Stro-1 - or Stro-1 + human mesenchymal stem cells int...	2004	Journal of Clinical Onco...	3/7/09
☆	📄	Bianco, Paolo	biology and potential applications	2001	Stem Cells	3/7/09
★	📄	Le Blanc, Katarina; ...	Mesenchymal stem cells for treatment of steroid-resistant, severe, acute graft-vers...	2008	Lancet	4/5/09
☆	📄	Blanc, Katarina Le; ...	Treatment of severe acute graft-versus-host disease with third party haploidentical mese...	2004	The Lancet	4/5/09
☆	📄	Chan, Rachel W S; ...	Clonogenicity of Human Endometrial Epithelial	2004	Biotechnology	3/7/09
★	📄	Colter, David C; Clas...	Rapid expansion of recycling stem cells in of plastic-adherent cells from huma...	2000	Proc. Natl. Acad. Sc. U...	3/7/09
☆	📄	DENNIS, JAMES E.; ...	Origin and Differentiation of Human and Murine Stroma	2002	Stem Cells	3/7/09
☆	📄	Etheridge, S. Leah; ...	Expression Profiling and Functional Analysis	2004	Stem Cells	3/22/09

**Filter by My Tags**

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- Filter by Publications

- autoimmune
- baboon
- biomarker
- bone
- bone marrow
- cartilage



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**My Library**  
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 All  
 aging  
 allergy  
 asthma  
 autoimmune  
 baboon  
 biomarker  
 bone  
 bone marrow  
 cartilage  
 cellular therapy  
 differentiation  
 Dkk1  
 EAE

**MSC Biology** Edit Settings  
 Results for "bone" in "MSC Biology". Search in [All Documents](#) Clear

**Search Results**  
**Circulating Skeletal Stem Cells**  
 Sergei A. Kuznetsov; MH Mankani; S Gr... - 2001 - The Journal of Cell Biology  
 ...skeletal stem cells found in **bone** marrow (stromal stem cells, "mesenchymal...

**Bone Marrow Stromal Stem Cells: Nature, Biology, and Potential Applications**  
 Paolo Bianco; M RIMINUCCI; S Gronthos... - 2001 - Stem Cells  
 S tem C ells C oncise R eview **Bone** Marrow Stromal Stem Cells: Nature...

**Molecular and cellular characterisation of highly purified stromal stem cells derived from human bone marrow**  
 Stan Gronthos; ACW Zannettino; SJ Hay... - 2003 - Journal of Cell Science  
 Keywords: Adipose, **Bone**, **Bone** Marrow Stroma, Cartilage, CFU...  
 ...stem cells derived from human **bone** marrow Stan Gronthos 1, \*, Andrew C. W. Zannettino...

**Clonogenicity of Human Endometrial Epithelial and Stromal Cells 1**  
 Rachel W S Chan; KE Schwab; CE Gargett - 2004 - Biotechnology  
 ...erative adult tissues such as **bone** marrow, intestine, and skin, rare...

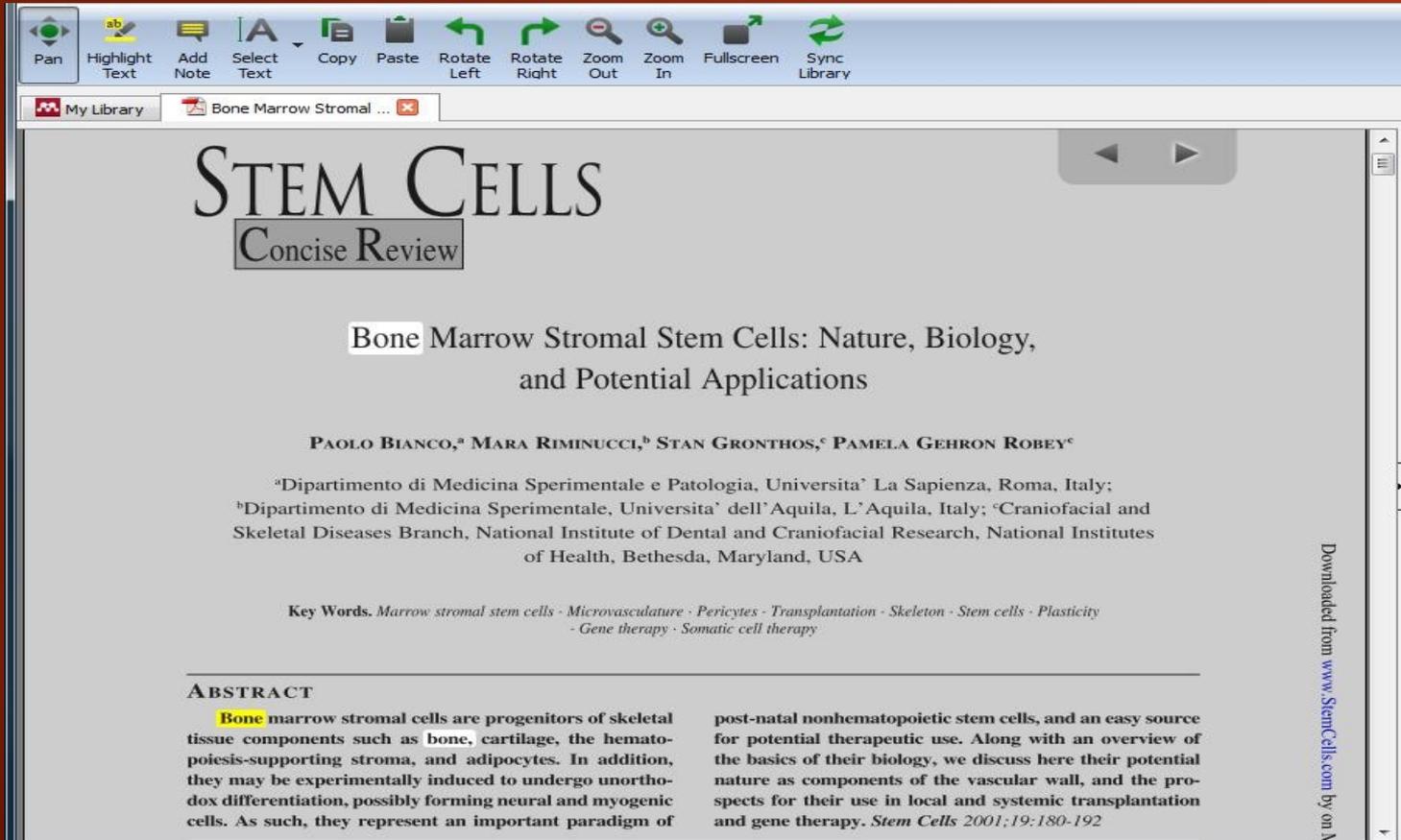
**Origin and Differentiation of Human and Murine Stroma**  
 JAMES E. DENNIS; P Charbord - 2002 - Stem Cells  
 ...is found not only for **bone** mar- row stromal cells, but...

**Homing of in vitro expanded Stro-1 - or Stro-1 + human mesenchymal stem cells into the NOD/SCID mouse and their role in supporting human CD34 cell engraftment**  
 Morad Bensidhoum; A Chapel; S Francoi... - 2004 - Journal of Clinical Oncology  
 ...detected in blood or in **bone** marrow (BM) and spleen as...

**Plasticity of marrow-derived stem cells**  
 Erica L Herzog; L Chai; DS Krause - 2003 - Blood  
 ...Li Chai, and Diane S. Krause **Bone** marrow (BM) contains hematopoi-etic...

**Cotransplantation of human stromal cell progenitors into preimmune fetal sheep results in early appearance of human donor cells in circulation and boosts cell levels in bone marrow at later time points after transplantation**  
 Graca Almeida-Porada; CD Porada; N Tr... - 2000 - Cell  
 ...and boosts cell levels in **bone** marrow at later time points...

**Details** **Notes**  
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 Issue: 7  
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 PMID:  
**Files:**  
 Colter et al. - 2000 - Rapid expansion of recycling ...



The image shows a screenshot of a PDF viewer interface. At the top, there is a toolbar with various icons for navigation and editing, such as Pan, Highlight Text, Add Note, Select Text, Copy, Paste, Rotate Left, Rotate Right, Zoom Out, Zoom In, Fullscreen, and Sync Library. Below the toolbar, there are two tabs: 'My Library' and 'Bone Marrow Stromal ...'. The main content area displays the title 'STEM CELLS Concise Review' in a large, serif font. Below this, the article title 'Bone Marrow Stromal Stem Cells: Nature, Biology, and Potential Applications' is centered. The authors' names are listed below the title: PAOLO BIANCO,<sup>a</sup> MARA RIMINUCCI,<sup>b</sup> STAN GRONTHOS,<sup>c</sup> PAMELA GEHRON ROBEY<sup>c</sup>. The affiliations are provided in two lines: <sup>a</sup>Dipartimento di Medicina Sperimentale e Patologia, Universita' La Sapienza, Roma, Italy; <sup>b</sup>Dipartimento di Medicina Sperimentale, Universita' dell'Aquila, L'Aquila, Italy; <sup>c</sup>Craniofacial and Skeletal Diseases Branch, National Institute of Dental and Craniofacial Research, National Institutes of Health, Bethesda, Maryland, USA. The key words are listed below the affiliations: Marrow stromal stem cells · Microvasculature · Pericytes · Transplantation · Skeleton · Stem cells · Plasticity · Gene therapy · Somatic cell therapy. The abstract section is titled 'ABSTRACT' and contains two columns of text. The first column starts with 'Bone marrow stromal cells are progenitors of skeletal tissue components such as bone, cartilage, the hematopoiesis-supporting stroma, and adipocytes. In addition, they may be experimentally induced to undergo unorthodox differentiation, possibly forming neural and myogenic cells. As such, they represent an important paradigm of' and the second column continues with 'post-natal nonhematopoietic stem cells, and an easy source for potential therapeutic use. Along with an overview of the basics of their biology, we discuss here their potential nature as components of the vascular wall, and the prospects for their use in local and systemic transplantation and gene therapy. *Stem Cells* 2001;19:180-192'. On the right side of the page, there is a vertical text: 'Downloaded from www.StemCells.com by on X'.

Pan Highlight Text Add Note Select Text Copy Paste Rotate Left Rotate Right Zoom Out Zoom In Fullscreen Sync Library

My Library Treatment of severe a...

**Adult bone-marrow-derived mesenchymal stem cells are immunosuppressive and prolong the rejection of mismatched skin grafts in animals. We transplanted haploidentical mesenchymal stem cells in a patient with severe treatment-resistant grade IV acute graft-versus-host disease of the gut and liver. Clinical response was striking. The patient is now well after 1 year. We postulate that mesenchymal stem cells have a potent immunosuppressive effect in vivo.**

*Lancet* 2004; **363**: 1439-41  
See Commentary page 1411

Severe acute graft-versus-host disease (GVHD) after allogeneic stem-cell transplantation is associated with high mortality. Bone marrow contains pluripotent mesenchymal stem cells that form bone, cartilage, adipose tissue, and muscle. These stem cells are not immunogenic and escape recognition by alloreactive T cells and natural killer cells. **Mesenchymal stem cells given intravenously have been well tolerated.** Furthermore, they are immunosuppressive and inhibit the proliferation of alloreactive T cells. Preliminary reports of

A 9-year-old boy with acute lymphoblastic leukaemia in third remission received a transplant of blood stem cells from an HLA-A, HLA-B, HLA-DRβ1 identical, unrelated, female donor after conditioning with cyclophosphamide (120 mg/kg) and fractionated total body irradiation (3 Gy for 4 days). Immunosuppression included thymoglobulin (6 mg/kg) during the conditioning, followed by ciclosporin combined with four doses of methotrexate. On day 11 after allogeneic stem-cell transplantation, the patient developed a maculopapular rash of the thorax and back that progressed despite treatment with prednisolone (2 mg/kg daily). By day 22, the patient developed diarrhoea (>1000 mL per day) and abdominal pain requiring morphine. He stopped eating on day 24. Bilirubin and alanine aminotransferase concentrations rose (figure 1). Psoralen and ultraviolet-A light (PUVA) treatment (two to three times per week) for 3 weeks was followed by extracorporeal PUVA (one to four times per week) for 6 weeks. Infliximab (10 mg/kg) and daclizumab (1 mg/kg) for 4 weeks were ineffective

Highlighted by you at 3:24:55 PM on Saturday, October 16, 2010

... haemopoietic ... a reduction in ... experience of ... n cells to treat ... antation.

... We chose the mother as donor, because she was readily available and because MHC-compatibility is not necessary for mesenchymal stem-cell immunosuppression.<sup>3</sup> After ethics-committee approval and informed consent, mesenchymal stem cells were isolated as previously described.<sup>3</sup> Briefly, we isolated mononuclear cells from a bone marrow aspirate by Percoll

**You** ○

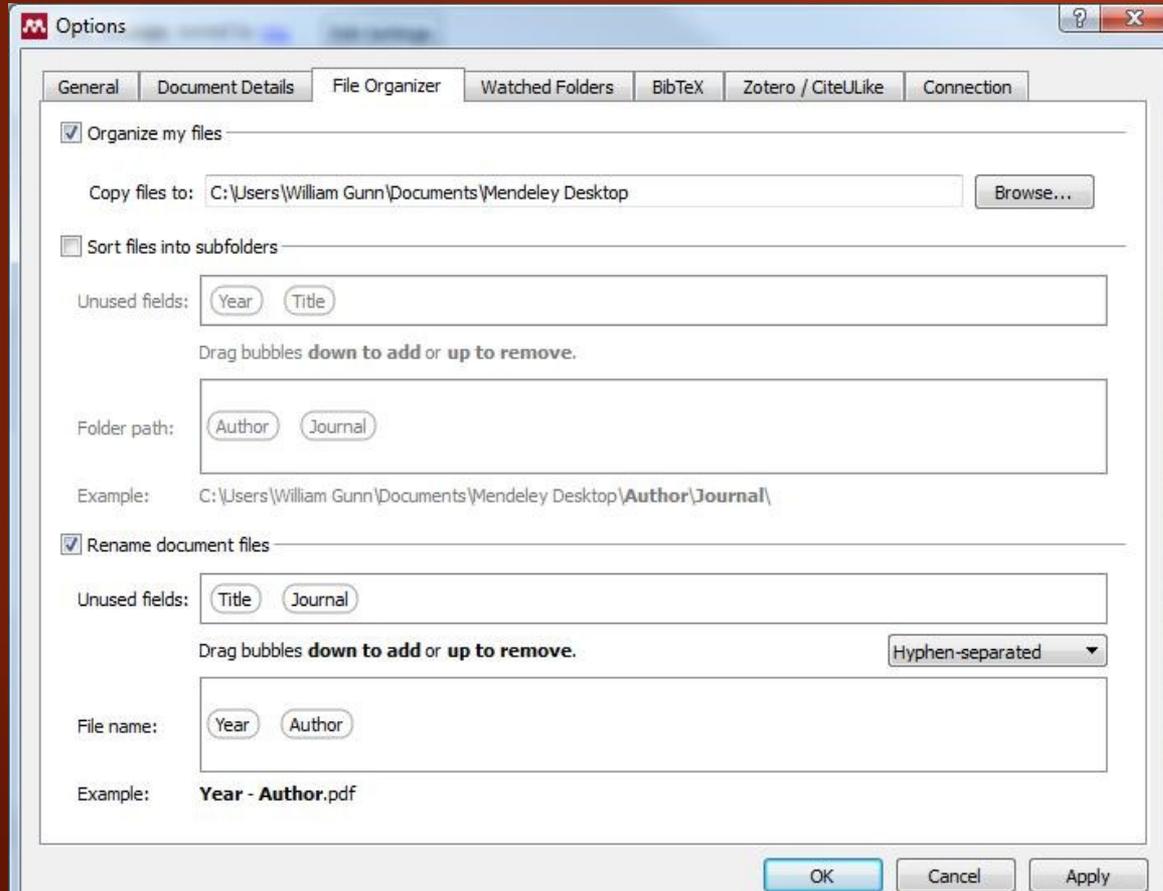
10/16/2010 3:26:12 PM

See Gregory et al. 2004

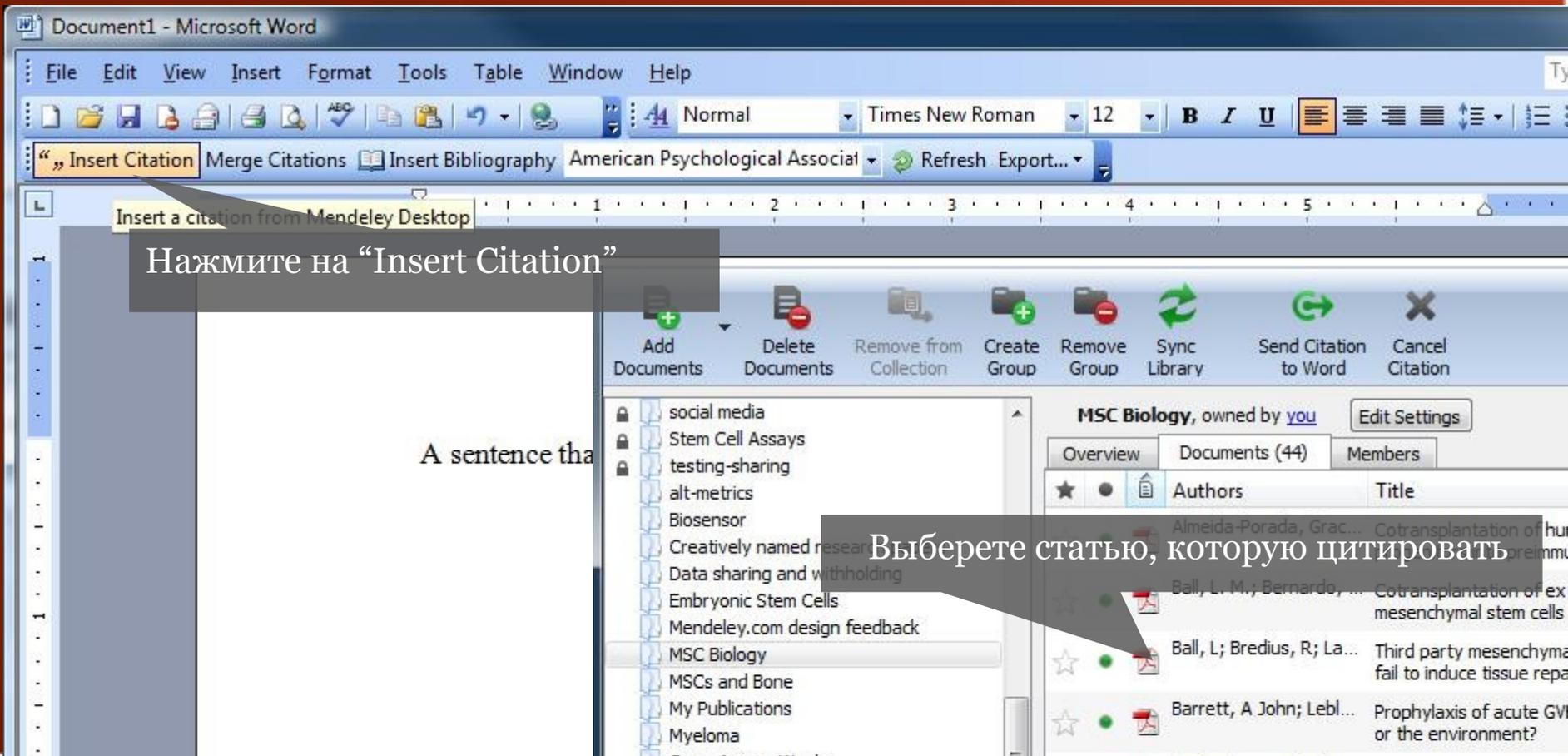
Page 1

10/16/2010 3:25:52 PM

See Gregory et al. 2004



# Цитирование статей и общие библиотеки



Document1 - Microsoft Word

File Edit View Insert Format Tools Table Window Help

Normal Times New Roman 12 B I U

„Insert Citation Merge Citations Insert Bibliography American Psychological Associat Refresh Export...

Insert a citation from Mendeley Desktop

Нажмите на “Insert Citation”

A sentence tha

Add Documents Delete Documents Remove from Collection Create Group Remove Group Sync Library Send Citation to Word Cancel Citation

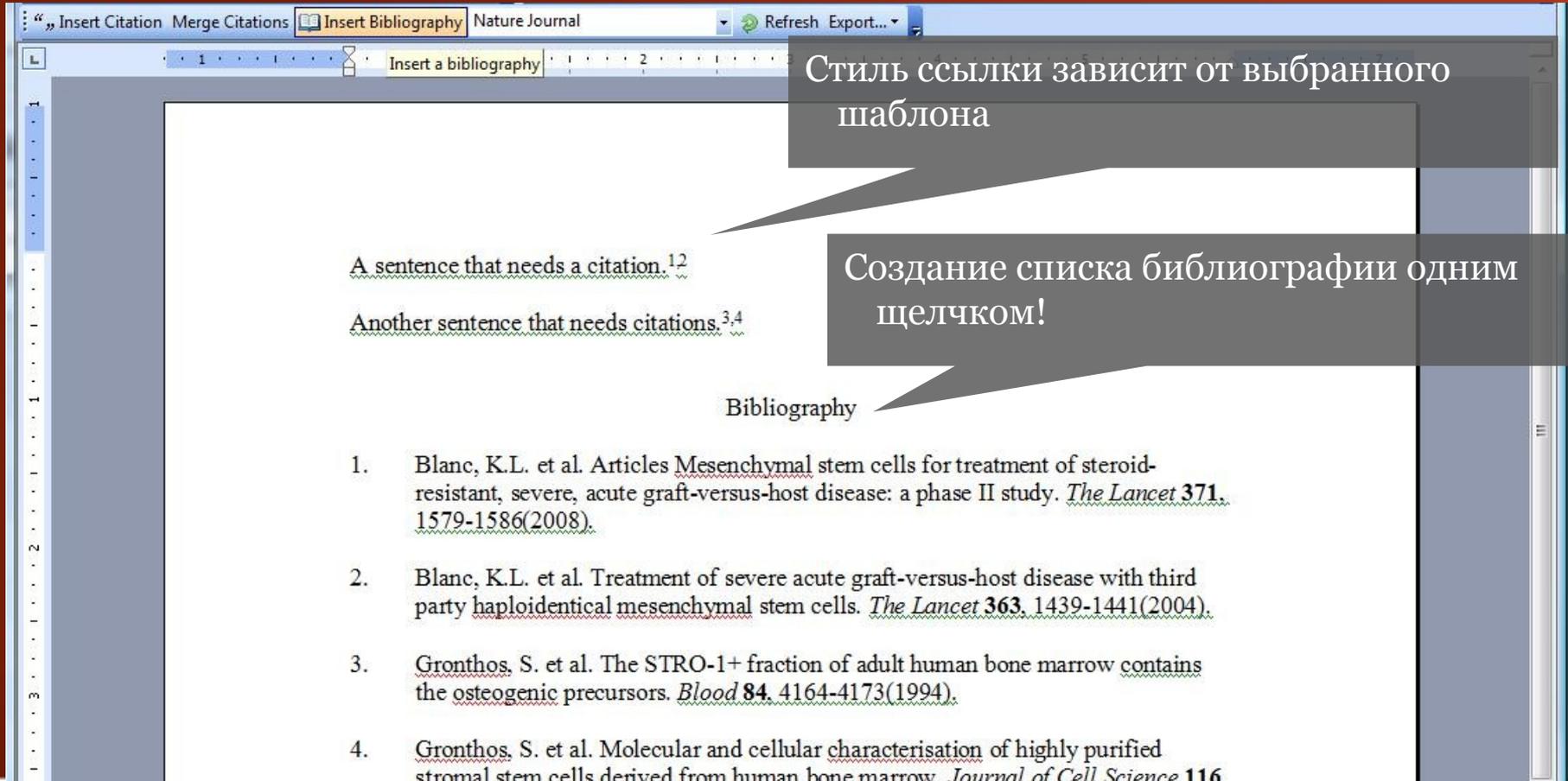
social media Stem Cell Assays testing-sharing alt-metrics Biosensor Creatively named research Data sharing and withholding Embryonic Stem Cells Mendeley.com design feedback MSC Biology MSCs and Bone My Publications Myeloma

MSC Biology, owned by you Edit Settings

Overview Documents (44) Members

Authors	Title
Almeida-Porada, Grac...	Cotransplantation of hu...
Ball, L. M.; Bernardo, ...	Cotransplantation of ex...
Ball, L.; Bredius, R; La...	Third party mesenchyma...
Barrett, A John; Lebl...	Prophylaxis of acute GV...

Выберете статью, которую цитировать



« » Insert Citation Merge Citations **Insert Bibliography** Nature Journal Refresh Export...

1 2

Insert a bibliography

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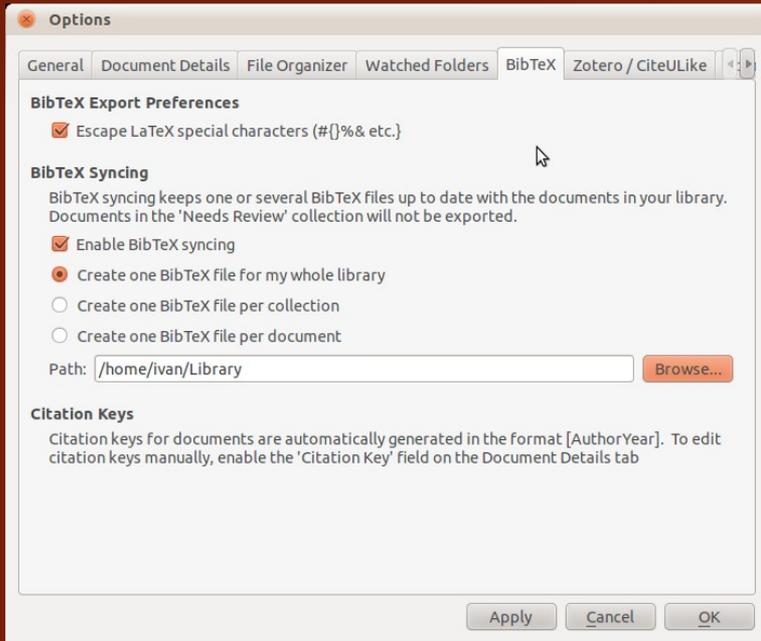
A sentence that needs a citation <sup>1,2</sup>

Another sentence that needs citations <sup>3,4</sup>

Создание списка библиографии одним щелчком!

Bibliography

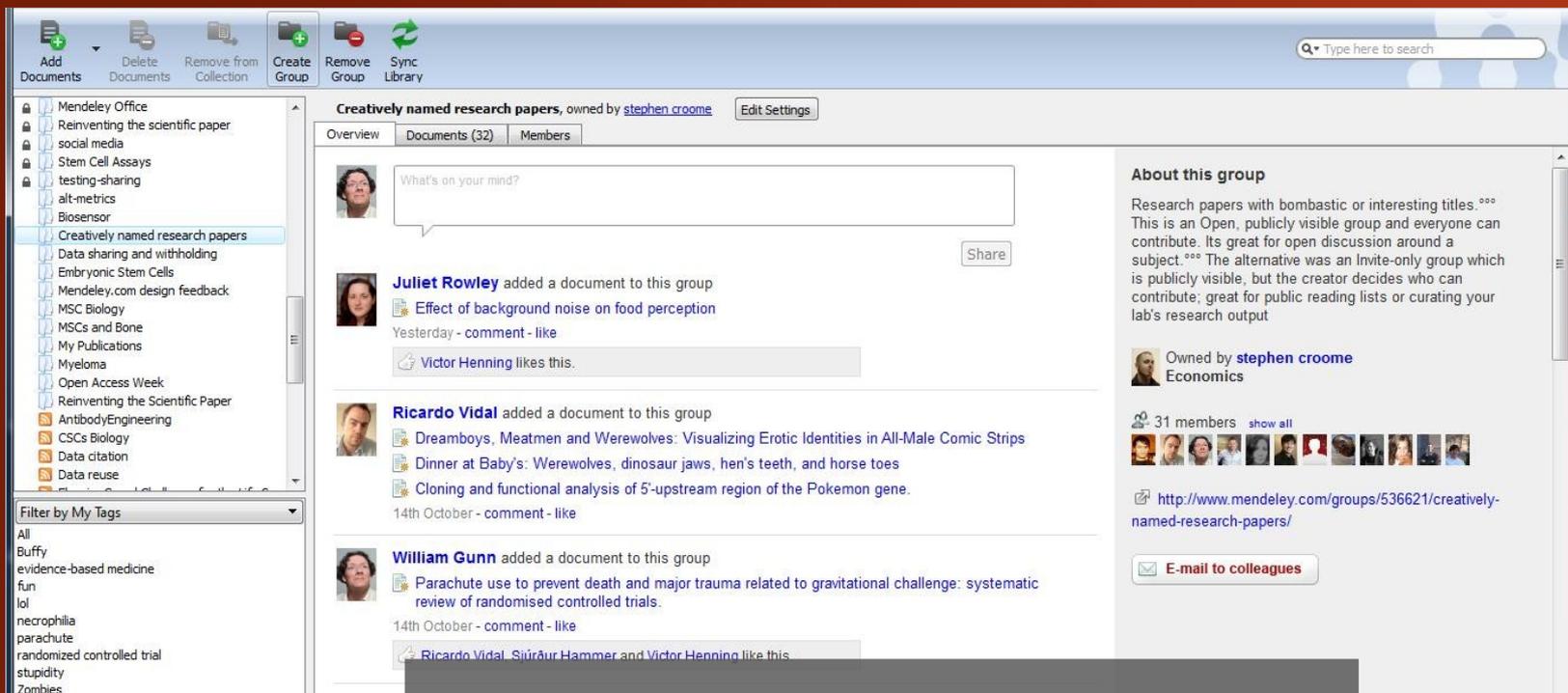
1. Blanc, K.L. et al. Articles Mesenchymal stem cells for treatment of steroid-resistant, severe, acute graft-versus-host disease: a phase II study. The Lancet **371**, 1579-1586(2008).
2. Blanc, K.L. et al. Treatment of severe acute graft-versus-host disease with third party haploidentical mesenchymal stem cells. The Lancet **363**, 1439-1441(2004).
3. Gronthos, S. et al. The STRO-1+ fraction of adult human bone marrow contains the osteogenic precursors. Blood **84**, 4164-4173(1994).
4. Gronthos, S. et al. Molecular and cellular characterisation of highly purified stromal stem cells derived from human bone marrow. Journal of Cell Science **116**



```
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author = {Vorobjev, IA and Svitkina, TM and Borisy, GG},
file = {:home/ivan/Library/Vorobjev, Svitkina, Borisy\_1997.pdf:pdf},
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number = {21},
pages = {2635--2645},
publisher = {Co Bio},
title = {{Cytoplasmic assembly of microtubules in cultured cells}},
url = {http://jcs.biologists.org/cgi/content/abstract/110/21/2635},
volume = {110},
year = {1997}
}
```

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The screenshot shows the Mendeley social network interface. At the top, there are navigation buttons: Add Documents, Delete Documents, Remove from Collection, Create Group, Remove Group, and Sync Library. A search bar is located in the top right corner with the placeholder text 'Type here to search'.

The main content area displays the group page for 'Creatively named research papers', owned by [stephen croome](#). The group has 32 documents and several members. The page shows a list of recent activity:

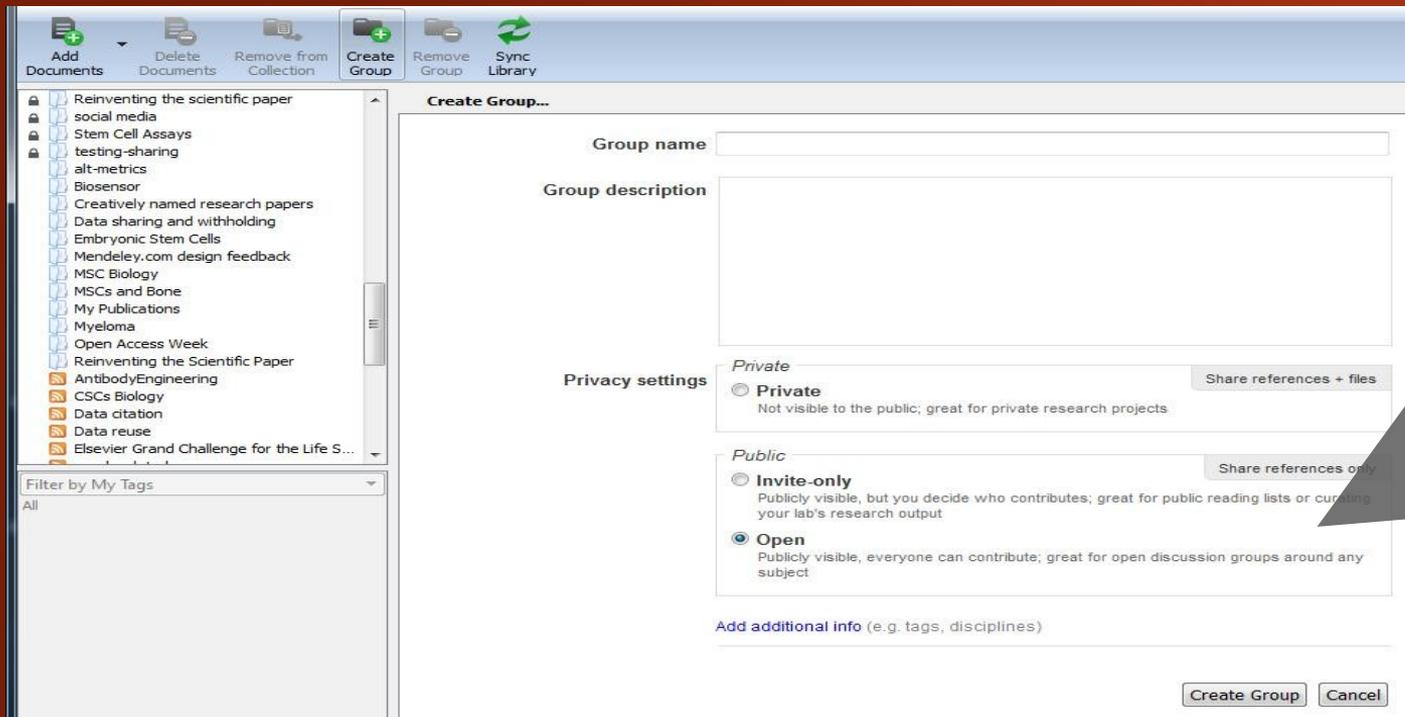
- Juliet Rowley** added a document to this group: [Effect of background noise on food perception](#). Yesterday - comment - like. [Victor Henning](#) likes this.
- Ricardo Vidal** added a document to this group: [Dreamboys, Meatmen and Werewolves: Visualizing Erotic Identities in All-Male Comic Strips](#), [Dinner at Baby's: Werewolves, dinosaur jaws, hen's teeth, and horse toes](#), and [Cloning and functional analysis of 5'-upstream region of the Pokemon gene](#). 14th October - comment - like.
- William Gunn** added a document to this group: [Parachute use to prevent death and major trauma related to gravitational challenge: systematic review of randomised controlled trials](#). 14th October - comment - like. [Ricardo Vidal](#), [Siürður Hammer](#), and [Victor Henning](#) like this.

On the right side, there is an 'About this group' section. It describes the group as 'Research papers with bombastic or interesting titles.' and notes that it is an Open, publicly visible group where everyone can contribute. It is owned by [stephen croome](#) (Economics) and has 31 members. A link to the group page is provided: <http://www.mendeley.com/groups/536621/creatively-named-research-papers/>. There is also a button to 'E-mail to colleagues'.

On the left side, there is a sidebar with a list of groups and a 'Filter by My Tags' section. The tags include: All, Buffy, evidence-based medicine, fun, lol, necrophilia, parachute, randomized controlled trial, stupidity, and Zombies.

Закрытые группы содержат полнотекстовые варианты статей, и описания.

# Создавайте группы Mendeley Desktop



**Create Group...**

Group name

Group description

Privacy settings

*Private*  **Private** Share references + files  
 Not visible to the public; great for private research projects

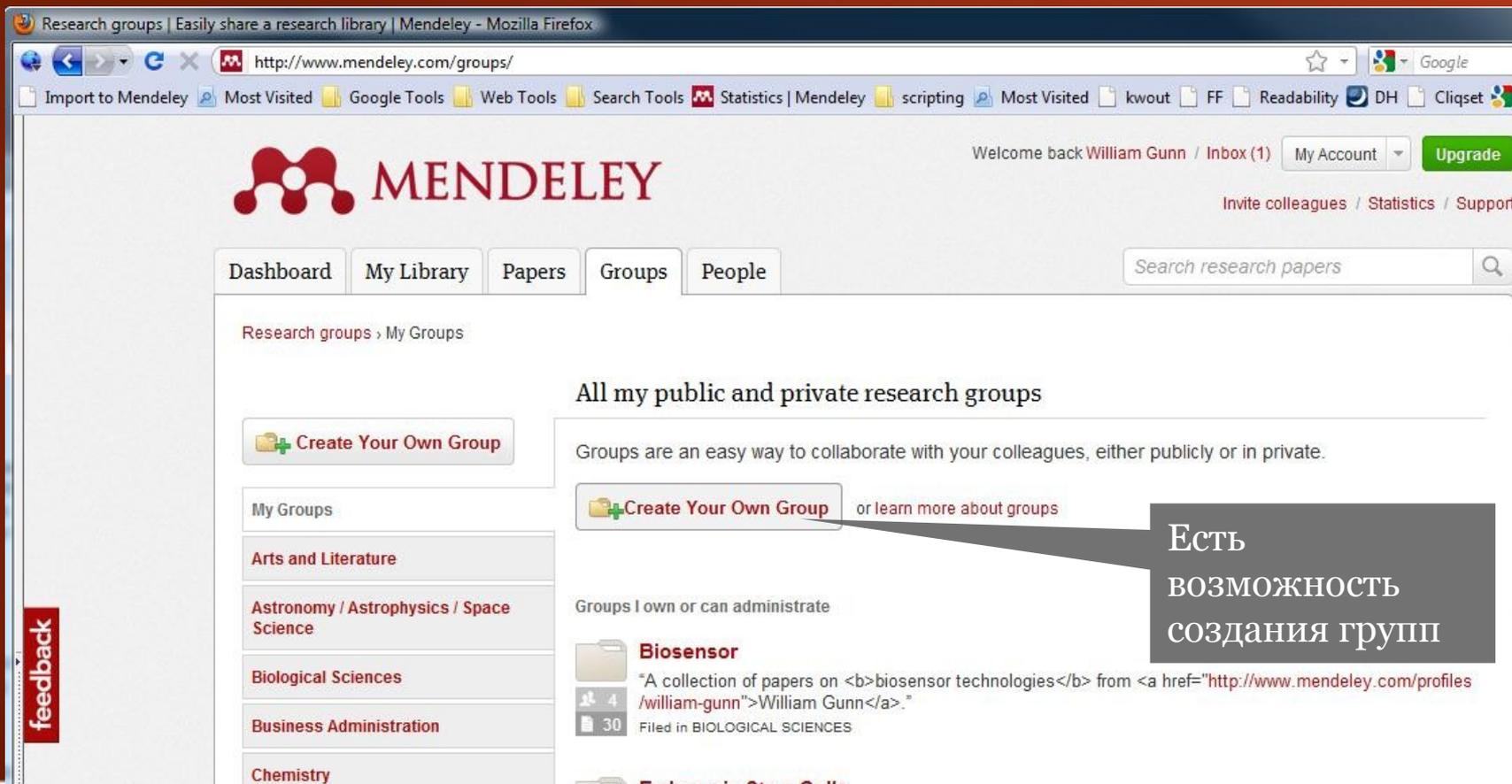
*Public*  **Invite-only** Share references only  
 Publicly visible, but you decide who contributes; great for public reading lists or curating your lab's research output

**Open**  
 Publicly visible, everyone can contribute; great for open discussion groups around any subject

Add additional info (e.g. tags, disciplines)

В закрытых группах статьи доступны в полном варианте.

В открытых группах доступны только ссылки.



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**Biosensor**  
"A collection of papers on <b>biosensor technologies</b> from <a href="http://www.mendeley.com/profiles/william-gunn">William Gunn</a>."  
4 members  
30 papers  
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## Ivan Denisov, Specialist

Postgraduate, Siberian federal university  
Krasnoyarsk, Russia

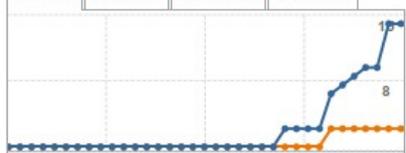
**Research field: Physics - Biomedical Physics**  
self-assembly, nanodiamond, cell systems, macromolecules, artificial neural networks



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Graphed by cumulative total

All Time Past Year Past Month Past Week



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### Publications

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Peter I. Belobrov, Ivan A. Denisov, Artur G. Tumanyan et al. (2010) Luciferase-Based Biobarcode


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Zhong Wang, Mark Gerstein, Michael Snyder

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Nature Reviews Genetics (2009)

Volume: 10, Issue: 1, Publisher: Nature Publishing Group, Pages: 57-63  
 PubMed ID: 19015660

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### Tags

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### Abstract

RNA-Seq is a recently developed approach to transcriptome profiling that uses deep-sequencing technologies. Studies using this method have already altered our view of the extent and complexity of eukaryotic transcriptomes. RNA-Seq also provides a far more precise measurement of levels of transcripts and their isoforms than other methods. This article describes the RNA-Seq approach, the challenges associated with its application, and the advances made so far in characterizing several eukaryote

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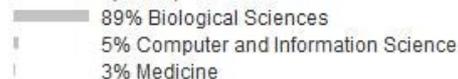
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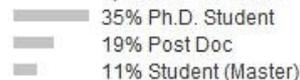
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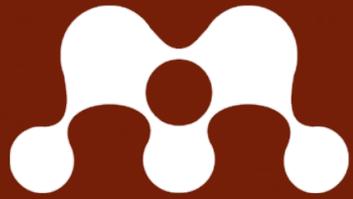
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