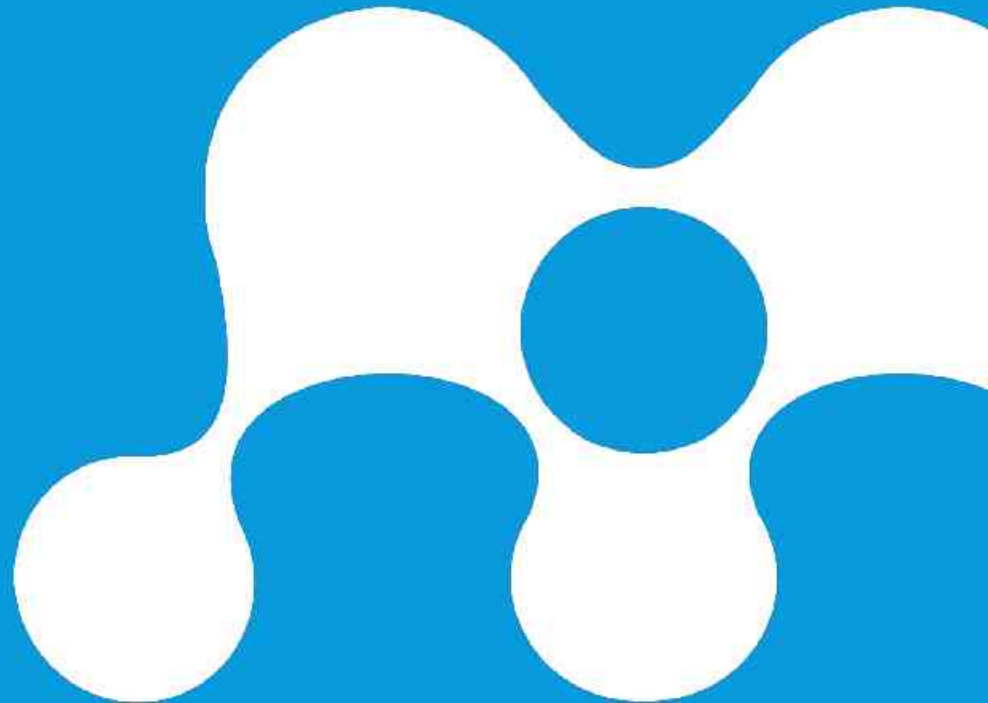


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Free

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2GB

1GB

NA

100MB

NA

Reference/Document Management

Organization of PDFs and other documents

✓

✓

✗

✓

✓

Citation Plug-ins for Word

✓

✓

✓

✓

✓

Citation Plug-ins for Open Office

✓

✓

✗

✓

✓

Annotations/Highlighting in PDFs

✓

✓

✗

✗

✓

Cross-platform syncing across desktop, web and mobile devices

✓

✗

✗

✓

✗

Knowledge Discovery

Free and open database approaching 100 million documents

✓

✗

✗

✗

✗

Personalized paper recommendations

✓

✗

✗

✗

✗

Readership statistics & community tags

✓

✗

✗

✗

✗

Open Web API

✓

✗

✗

✓

✗

Full text search across all your papers

✓

✓

✗

✓

✓

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- سازماندهی منابع و استنادات
- ایجاد کتابشناسی با فرمت استاندارد
- ایجاد پایگاه استنادی شخصی برای مقالات در موضوعات مختلف
- استفاده از ارجاعات و کتابشناسی گوناگون به راحتی با استفاده از نرم افزار مندلی
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- رایگان بودن نرم افزار
- آسانی استفاده
- استفاده پایگاه های بسیاری مانند محصولات الزویر از نرم افزار مندلی
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- ایجاد پروفایل شخصی
- What is Mendeley?
- ایجاد کتابخانه شخصی
- مدیریت رفرنسها و مستندات
- ایجاد کتابشناختی استنادات
- اشتراک گذاری گروههای در حال استفاده از رفرنسها

What is Mendeley?

Based in London, Mendeley are 30+ researchers, graduates and software developers from...



...backed by co-founders and former executives of:

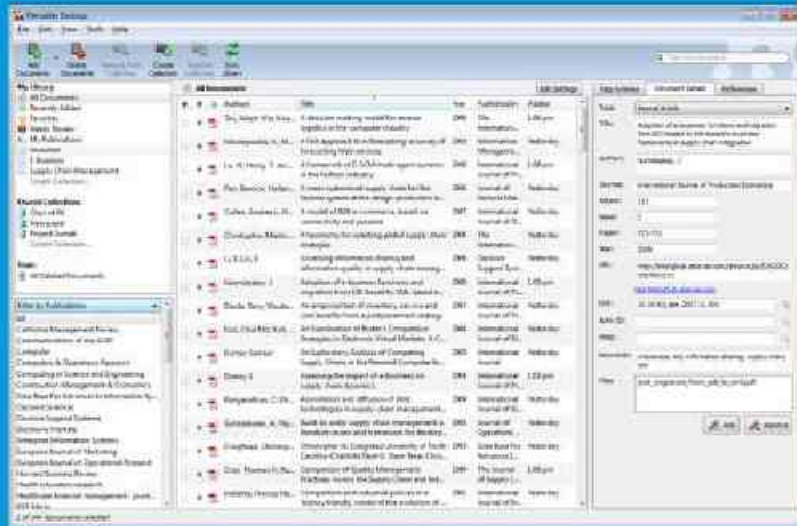


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Mendeley is free academic software (Win, Mac & Linux) to manage, share, read, annotate and cite your research papers...



...and a research network to manage your papers online, discover research trends and statistics, and to connect to like-minded researchers.

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http://www.mendeley.com/profiles/diogenes-bido/

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Dr. Diógenes Bido

Professor Adjunto, Universidade Presbiteriana Mackenzie
São Paulo, Brazil

Research field: **Business Administration** - Human Resource Management
Methodological aspects of management research, structural equation modeling (LISREL and PLS-PM), multivariate analysis, and individual learning in organizations and Measures in Organizational Learning.

Publications

▼ **Conference Proceedings (2)**

Diógenes Souza Bido, Arilda Schmidt Godoy, Gaston Marcos Moraes Curroga et al. (2013) Relação entre a aprendizagem organizacional e o desempenho organizacional: o conceito de estoques e fluxos de aprendizagem, 1-14. In *Encontro da Associação dos Programas de Pós Graduação e Pesquisa em Administração*, 1-14. São Paulo, SP: Associação dos Programas de Pós Graduação e Pesquisa em Administração.

[Download PDF \(278.34 KB\)](#)

Ronaldo Zwicker, Cesar Alexandre Souza, Diógenes Souza Bido (2008) Uma revisão do modelo do grau de informatização de empresas: novas propostas de estimação e modelagem usando PLS (partial least squares), 1-16. In *Encontro da Associação dos Programas de Pós Graduação e Pesquisa em Administração*, 1-16. São Paulo, SP: Associação dos Programas de Pós Graduação e Pesquisa em Administração.

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Internet 100% 15:38

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Search...

Search papers
Search groups
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2 – You can search...

Dr. Diógenes Bido
Professor Adjunto, Universidade Presbiteriana Mackenzie
São Paulo, Brazil

Research field: Business Administration - Human Resource Management
Methodological aspects of management research, structural equation modeling (LISREL and PLS-PM), multivariate analysis, and individual learning in organizations and Measures in Organizational Learning.

Publications

▼ **Conference Proceedings (2)**

1 – Some statistics about your publication

Diógenes Souza Bido, Cesar Alexandre Souza, Ronaldo Zwickner, Cesar Alexandre Souza, Diógenes Souza Bido (2008) Uma revisão do modelo do grau de informatização de empresas: novas propostas de estimação e modelagem usando PLS (partial least squares), 1-16. In *Encontro da Associação dos Programas de Pós Graduação e Pesquisa*.
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Ronaldo Zwickner, Cesar Alexandre Souza, Diógenes Souza Bido (2008) Uma revisão do modelo do grau de informatização de empresas: novas propostas de estimação e modelagem usando PLS (partial least squares), 1-16. In *Encontro da Associação dos Programas de Pós Graduação e Pesquisa*

Publication Statistics
Graphed by cumulative total

All Time Past Year Past Month Past Week

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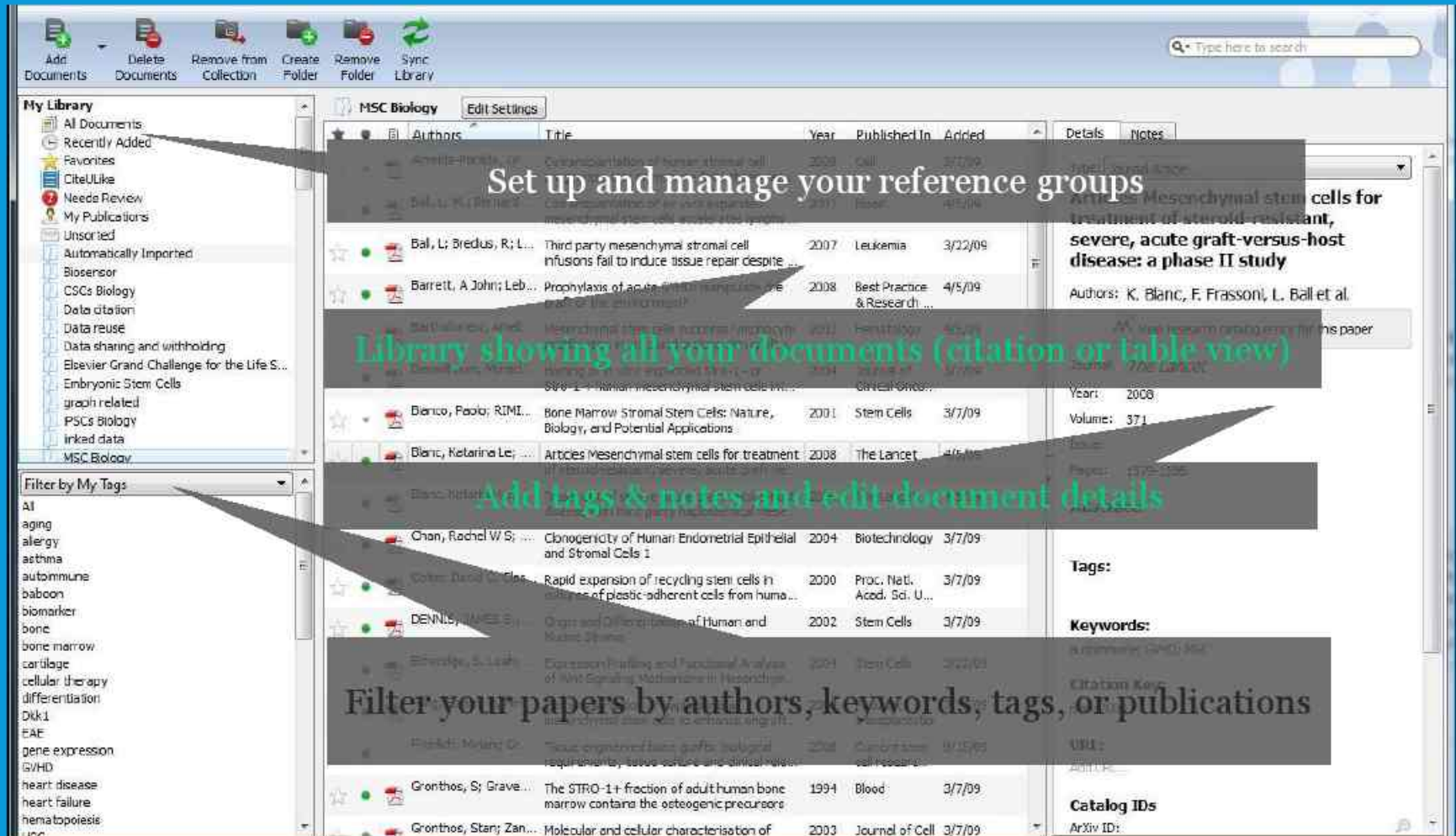
Chitharanjan
Cesar Alexandre
Dimitris
Dimitris
Dimitris

Concluído

Internet 100%

15:52

ایجاد کتابخانه شخصی



The screenshot shows the Mendeley Desktop application interface. The top toolbar includes buttons for 'Add Documents', 'Delete Documents', 'Remove from Collection', 'Create Folder', 'Remove Folder', and 'Sync Library'. A search bar is located in the top right corner.

My Library (Left Sidebar):

- 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
- PSCs Biology
- linked data
- MSC Biology

Filter by My Tags (Bottom Left):

- All
- aging
- allergy
- asthma
- autoimmune
- baboon
- biomarker
- bone
- bone marrow
- cartilage
- cellular therapy
- differentiation
- Dkk1
- EAE
- gene expression
- GVHD
- heart disease
- heart failure
- hematopoiesis
- MSC

MSC Biology (Main Table View):

Authors	Title	Year	Published In	Added	Details	Notes
Amelie-Mercier, C...	Overexpression of human stromal cell...	2008	Cell	3/7/09		
Bal, L; Bredus, 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 graft-versus-host disease of the engraftment...	2008	Best Practice & Research...	4/5/09		
Bathia, Arun, et al.	Mesenchymal stem cells: a review of their biology and potential applications in regenerative medicine	2004	Stem Cells	3/7/09		
Bianco, Paolo; RIME...	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 hematopoietic diseases, acute graft-versus-host...	2008	The Lancet	4/5/09		
Chan, Rachel W S; ...	Clonogenicity of Human Endometrial Epithelial and Stromal Cells 1	2004	Biotechnology	3/7/09		
Cotter, David G; et al.	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 S; ...	Origin and Differentiation of Human and Mouse Stem Cells	2002	Stem Cells	3/7/09		
Ehrhardt, S; et al.	Expression Profiling and Functional Analysis of Wnt Signaling Mechanisms in Hemochromatosis	2004	Stem Cells	3/22/09		
Engel, Michael D; ...	Transgenic mouse models for studying the biology of hematopoietic stem cells	2008	Current Opin Cell Biolog...	3/22/09		
Gronthos, S; et al.	The STRO-1+ fraction of adult human bone marrow contains the osteogenic precursors	1994	Blood	3/7/09		
Gronthos, S; et al.	Molecular and cellular characterization of	2003	Journal of Cell	3/7/09		

Details Panel (Right):

Tags:

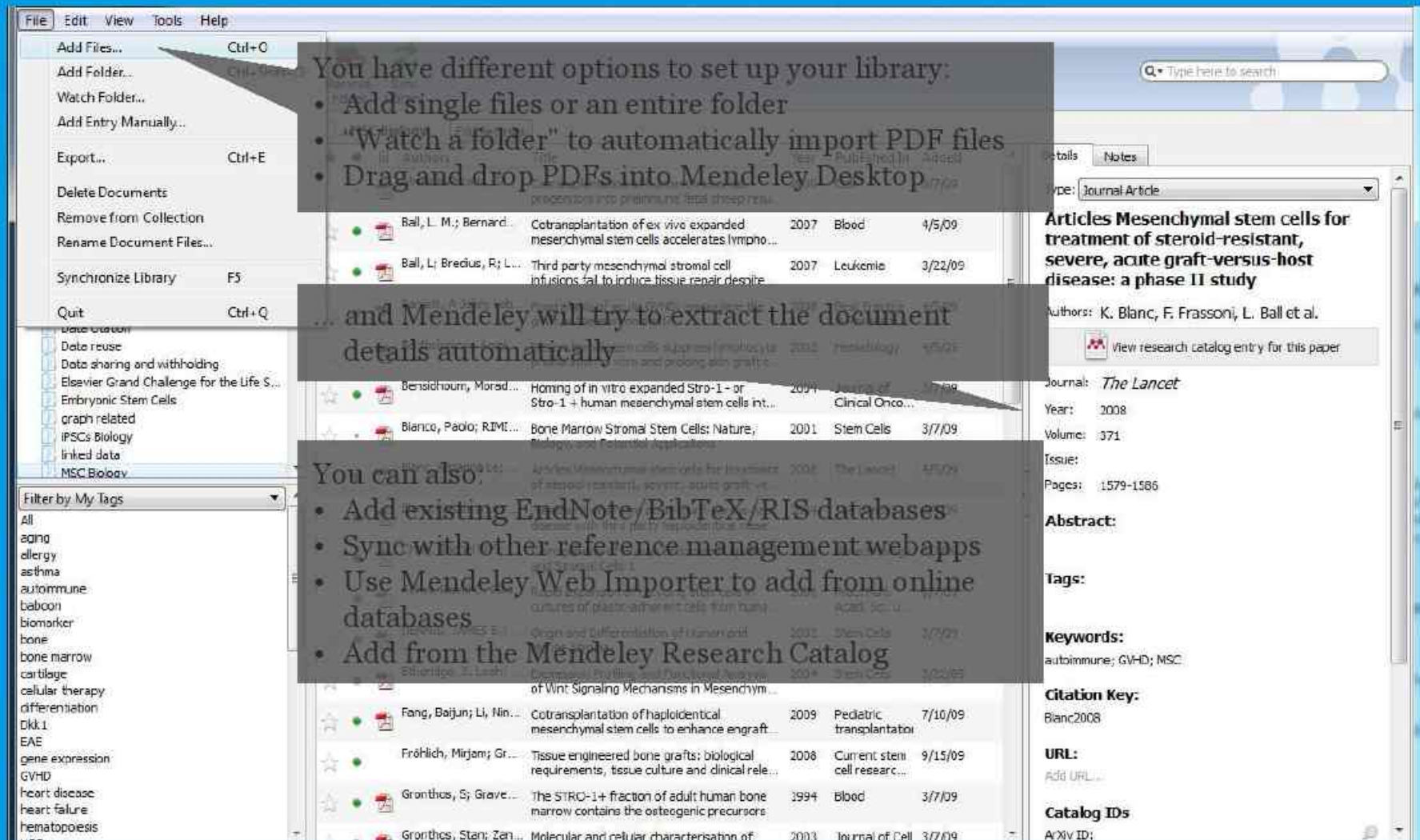
Keywords:

Citation Key:

URI:

Catalog IDs

ArXiv ID:



The screenshot shows the Mendeley Desktop application window. The 'File' menu is open, showing options like 'Add Files...', 'Add Folder...', 'Watch Folder...', 'Add Entry Manually...', 'Export...', 'Delete Documents', 'Remove from Collection', 'Rename Document Files...', 'Synchronize Library', and 'Quit'. A search bar is visible at the top right. The main pane displays a list of documents with columns for author, title, year, journal, and date added. A right-hand pane shows details for a selected article: 'Articles Mesenchymal stem cells for treatment of steroid-resistant, severe, acute graft-versus-host disease: a phase II study' by K. Blanc, F. Frasson, L. Ball et al. from 'The Lancet', 2008, Volume 371, Pages 1579-1586.

You have different options to set up your library:

- Add single files or an entire folder
- "Watch a folder" to automatically import PDF files
- Drag and drop PDFs into Mendeley Desktop

... and Mendeley will try to extract the document details automatically

You can also:

- Add existing EndNote/BibTeX/RIS databases
- Sync with other reference management webapps
- Use Mendeley Web Importer to add from online databases
- Add from the Mendeley Research Catalog

DetailsNotes

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:
PMID: 18468541

Files:
 Blanc et al. - 2008
Add File...

Enter the DOI, PubMed, or ArXiv ID and click on the magnifier glass to start lookup

Missing info is added automatically

DetailsNotes

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 January, 2007, 55 patients were treated. The

Tags:

Keywords:
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>
Add URL...

Catalog IDs
ArXiv ID:
DOI: 10.1016/S0140-6736(08)60690-X
PMID: 18468541

Files:
 Blanc et al. - 2008 - Articles Mesenchymal stem cell...
Add File...

1. Install the Web Importer:

www.mendeley.com/import

IMPORT TO MENDELEY

To install the Web Importer, you can either right-click this button and choose to add the

For the Web Importer to work, your browser's pop-up blocker must be disabled. Click here to test your pop-up blocker: [Pop-up blocker](#)

To install the Web Importer, drag & drop the bookmarklet to your Favorites/Bookmarks in your internet browser

2. Locate a document:

You can now begin to import documents from a wide variety of sites, such as those listed below. In addition to these sites, we also support [C.O.I.N.S](#) for the easy import of documents into Mendeley.

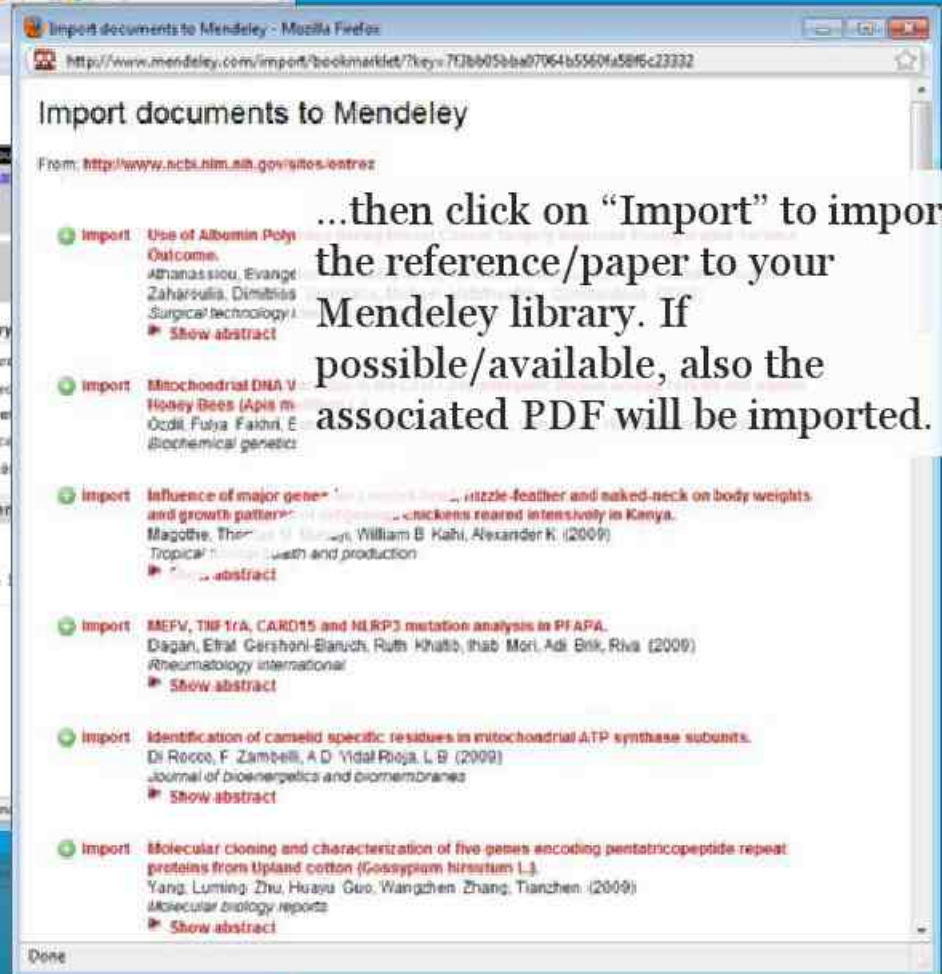
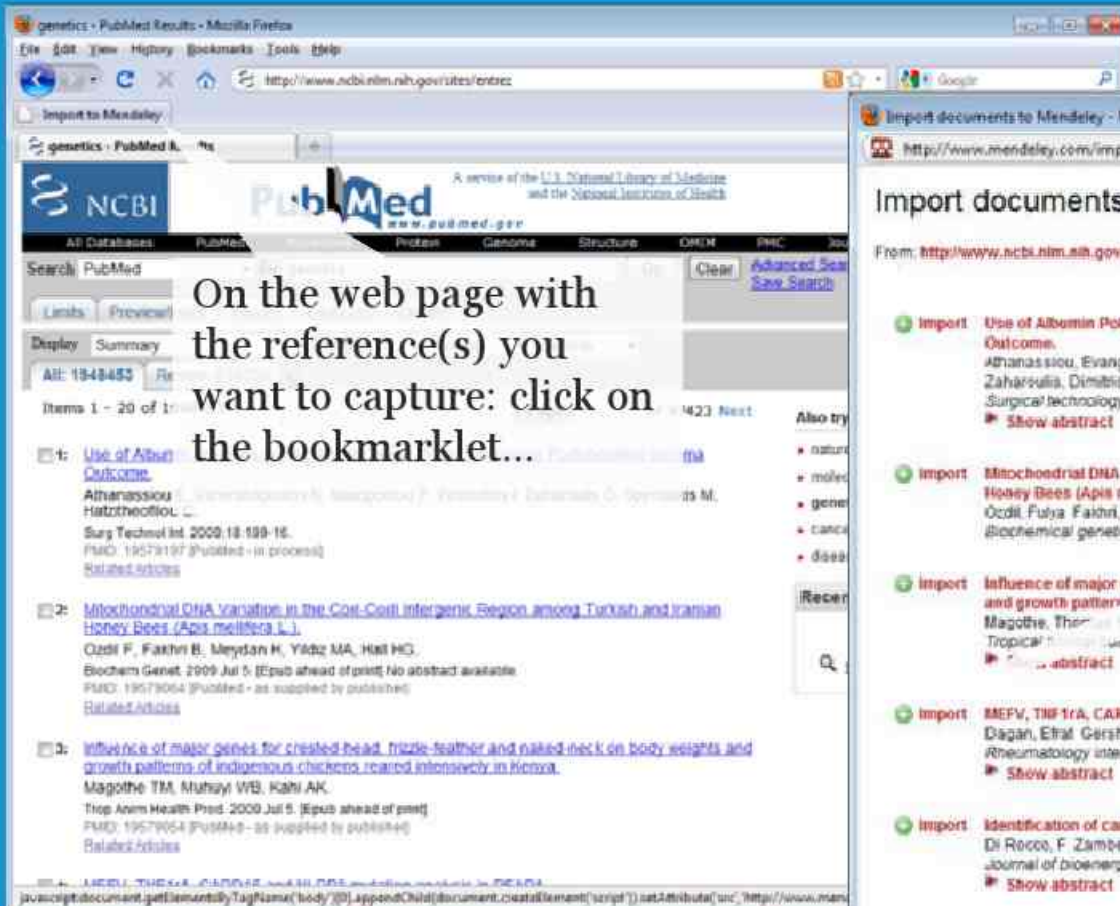
ACM Portal	ACS Publications	AIP Scitation	Amazon
APS	APA PsychNET	arXiv	BioMedCentral
BioOne	CINII	CiteseerX	CiteULike
Copac	DBLP	EBSCO	GBV
Google BookSearch	Google Scholar	IACR ePrints	IEEE Xplore
Informaworld	IngentaConnect	INIST / CNRS	Institute of Physics
ISI Web of Knowledge	JSTOR	Lancet Journals	MyOpenArchive
NASA ADS	Nature	OpticsInfoBase	OvidSP
PLoS	PNAS	PubMed	ReIdoc
RePEc	SAGE	ScienceDirect	ScienceMag
Sciрус	Spire	SpringerLink	SSRN
Wikipedia	Wiley InterScience	WorldCat	Zetoc

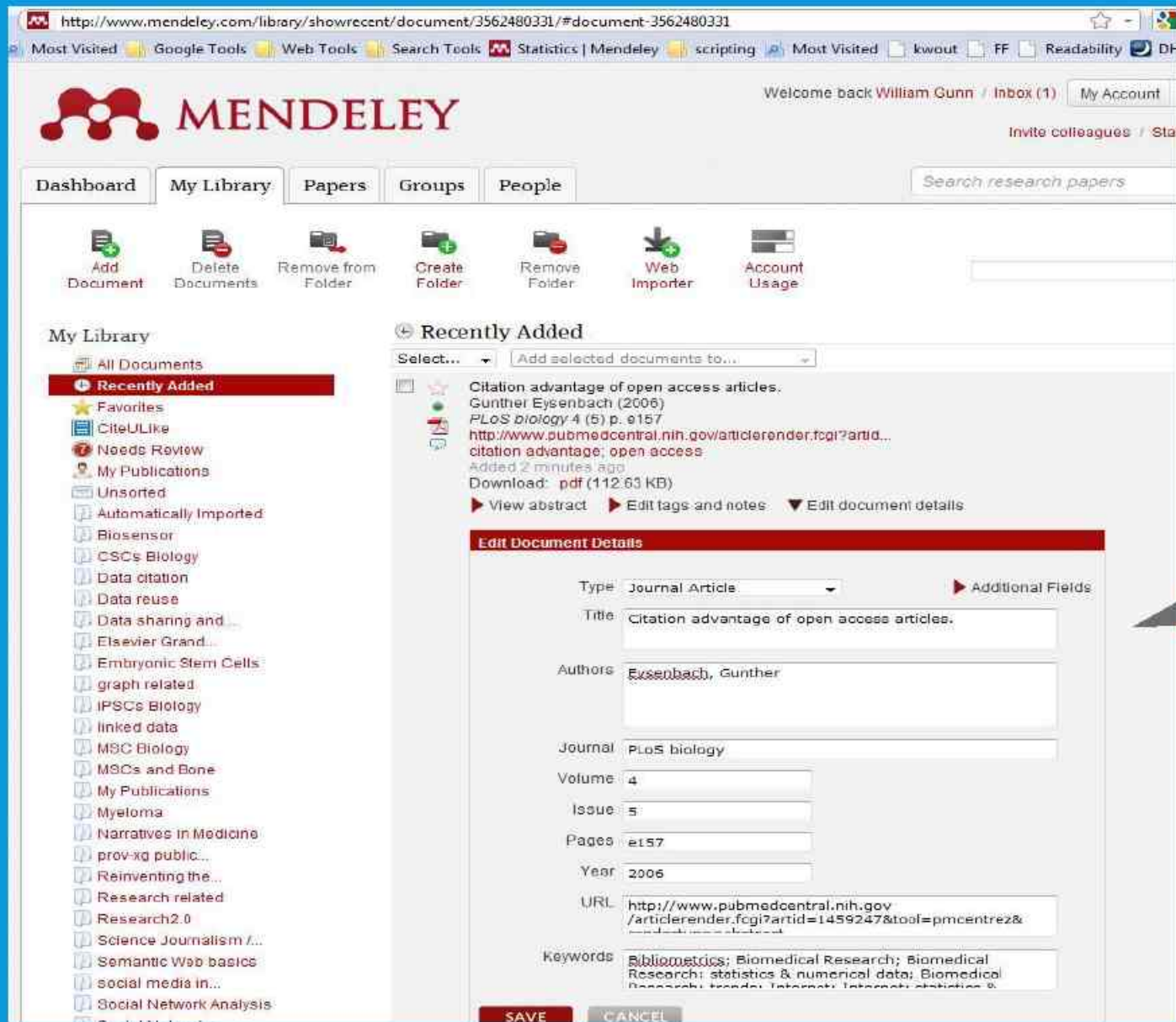
Supported sites

The Web Importer helps you grab citations off the web

On the web page with the reference(s) you want to capture: click on the bookmarklet...

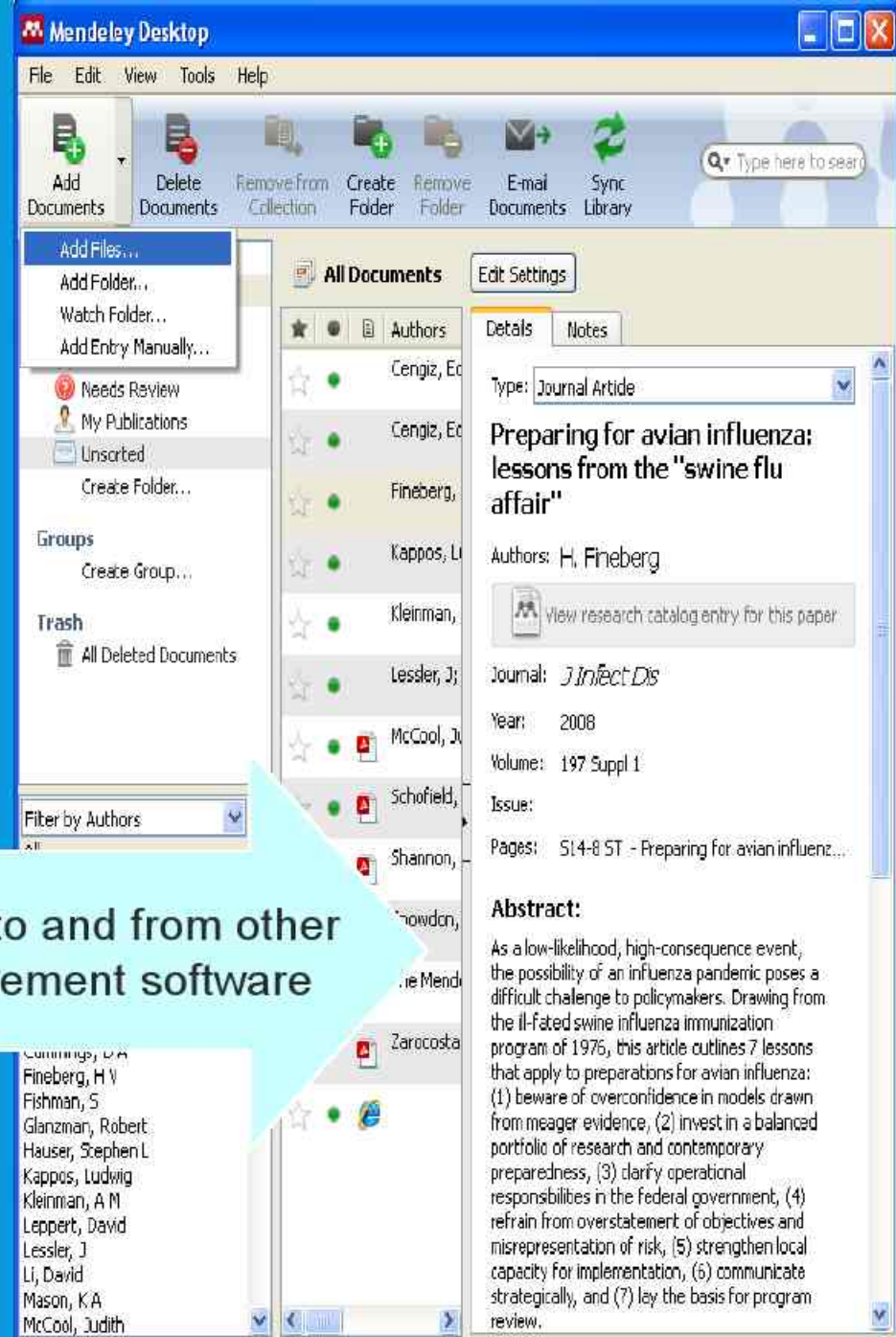
...then click on "Import" to import the reference/paper to your Mendeley library. If possible/available, also the associated PDF will be imported.





The screenshot shows the Mendeley web interface. At the top, there's a navigation bar with links like 'Dashboard', 'My Library', 'Papers', 'Groups', and 'People'. Below this, there's a section for 'My Library' with a sidebar containing various filters like 'All Documents', 'Recently Added', 'Favorites', etc. The main content area shows a list of 'Recently Added' documents. The first document is 'Citation advantage of open access articles' by Gunther Eysenbach (2006), published in PLoS biology 4 (5) p. e157. The document is a PDF (112.63 KB) added 2 minutes ago. Below the document list, there's an 'Edit Document Details' form. The form has fields for Type (Journal Article), Title (Citation advantage of open access articles.), Authors (Eysenbach, Gunther), Journal (PLoS biology), Volume (4), Issue (5), Pages (e157), Year (2006), URL (http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1459247&tool=pmcentrez&render=abstract), and Keywords (Bibliometrics; Biomedical Research; Biomedical Research; statistics & numerical data; Biomedical Research; trends; Internet; Internet; statistics & numerical data). There are 'SAVE' and 'CANCEL' buttons at the bottom of the form.

You can also add references and edit & manage your library online



Export and Import to and from other reference management software

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Main menu or Function menu

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Favorites
Needs Review
My Publications
Unsorted

My Library/ Collections

Groups

No groups yet.
Find new groups.

Trash

All Deleted Documents

Filter Selected Collection

by Publications

All Documents

Select... Add selected documents to...

- ☐ 500M Dollars Investment in Poor Countries' Health Systems Will Boost Vaccination.
John Zarocostas (2007)
BMJ (Clinical research ed.) 334 (7587) p. 225
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid...>
- ☐ Getting Started with Mendeley
The Mendeley Support Team (2011)
p. 1-16
<http://www.mendeley.com>
- ☐ Mendeley Basics
Carol Shannon (2011)
p. 1-10
- ☐ New-generation diabetes management: glucose sensor-augmented insulin pump therapy.
Eda Cengiz, Jennifer L Sherr, Stuart A Weinzimer, William V Tamborlane (2011)
Expert review of medical devices 8 (4) p. 449-58
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid...>
- ☐ New-generation diabetes management: glucose sensor-augmented insulin pump therapy.
Eda Cengiz, Jennifer L Sherr, Stuart A Weinzimer, William V Tamborlane (2011)
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid...>

References

Mendeley Desktop

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Search

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Literature Search

My Library

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- My Publications
- Unsorted
- Dengue
- Create Folder...

Collections

- Diabetes

Filter by Authors

- All
- Ambrosio, L D
- Argyropoulos, G
- Aulino, F
- Baquero, M C
- Bar-Or, Amit
- Barkhof, Frederik
- Barrington, D S
- Beer, D
- Bloom, B R
- Bodenreider, C
- Be...
- Bo...
- Br...
- Burke, D S C2 - 2373398
- Butler, Karen M
- Cafisch, A

Filters

All Documents Edit Settings

★	●	☰	Authors	Title	Year	Publish
☆	●		Barrington, ...	Racial/Ethnic Disparities in Obesity Among US-b...	2009	Obesity (Silver S
☆	●		Bodenreider...	A fluorescence quenching assay to dis...	2009	Anal Biochem
☆	●		Bodenreider...	A fluorescence quenching assay to dis...	2009	Anal Biochem
☆	●			References to dis...	2009	Anal Biochem
☆	●		Butler, Kare...	Evidence-based smoking	2012	The
☆	●		Domingo, C...	Molecular and serologic markers of acute deng...	2009	Diagn Microbio
☆	●		Domingo, C...	Molecular and serologic markers of acute deng...	2009	Diagn Microbio
☆	●		Duchesne, ...	Impact of obesity in damage control laparot...	2009	J Trauma
☆	●		Duchesne, ...	Impact of obesity in damage control laparot...	2009	J Trauma
☆	●		Duchesne, ...	Impact of obesity in damage control laparot...	2009	J Trauma
☆	●		Fineberg, H V	Preparing for avian influenza: lessons from ...	2008	J Infect

Desktop version of Mendeley which is used to manage, annotate and cite your research papers.

Details Notes

Type: Journal Article

Racial/Ethnic Disparities in Obesity Among US-born and Foreign-born Adults by Sex and Education.

Authors: D. Barrington, M. Baquero, L. Borrell et al.

 View research catalog entry for this paper

Journal: *Obesity (Silver Spring)*

Year: 2009

Volume:

Issue:

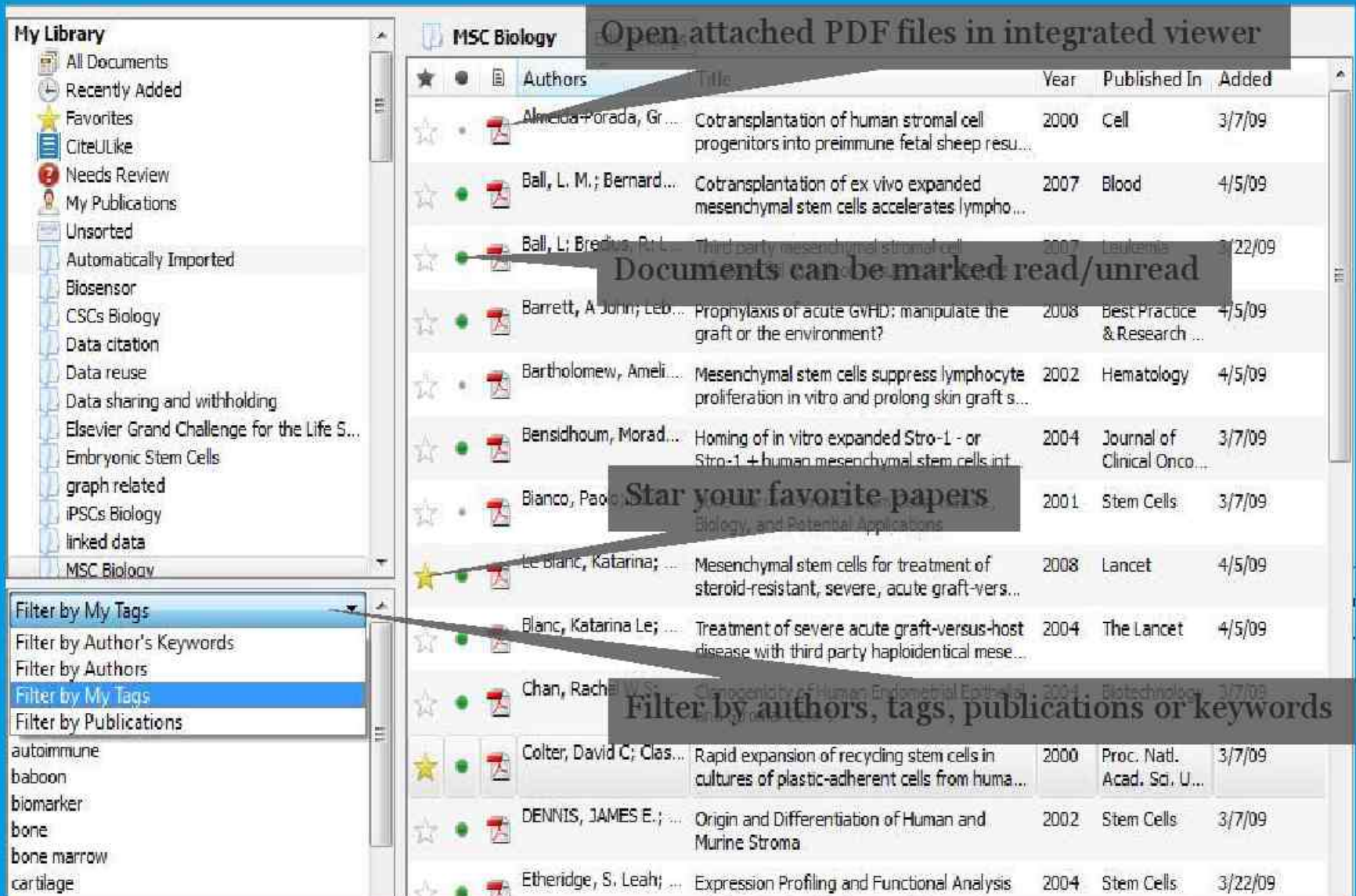
Pages:

Reference details

Abstract:

This study examines sex and education variations in obesity among US- and foreign-born whites, blacks, and Hispanics utilizing 1997-2005 data from the National Health Interview Survey on 267,585 adults aged ≥18 years. After adjusting for various demographic, health, and socioeconomic factors via logistic regression, foreign-born black men had the lowest odds for obesity relative to US-born white men. The largest racial/ethnic disparity in obesity was between US-born black and white women. High educational attainment diminished the US-born black-white and

1 of 47 documents selected



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- Elsevier Grand Challenge for the Life S...
- Embryonic Stem Cells
- graph related
- iPSCs Biology
- linked data
- MSC Biology

Filter by My Tags

- Filter by Author's Keywords
- Filter by Authors
- Filter by My Tags
- Filter by Publications

autoimmune
baboon
biomarker
bone
bone marrow
cartilage

MSC Biology

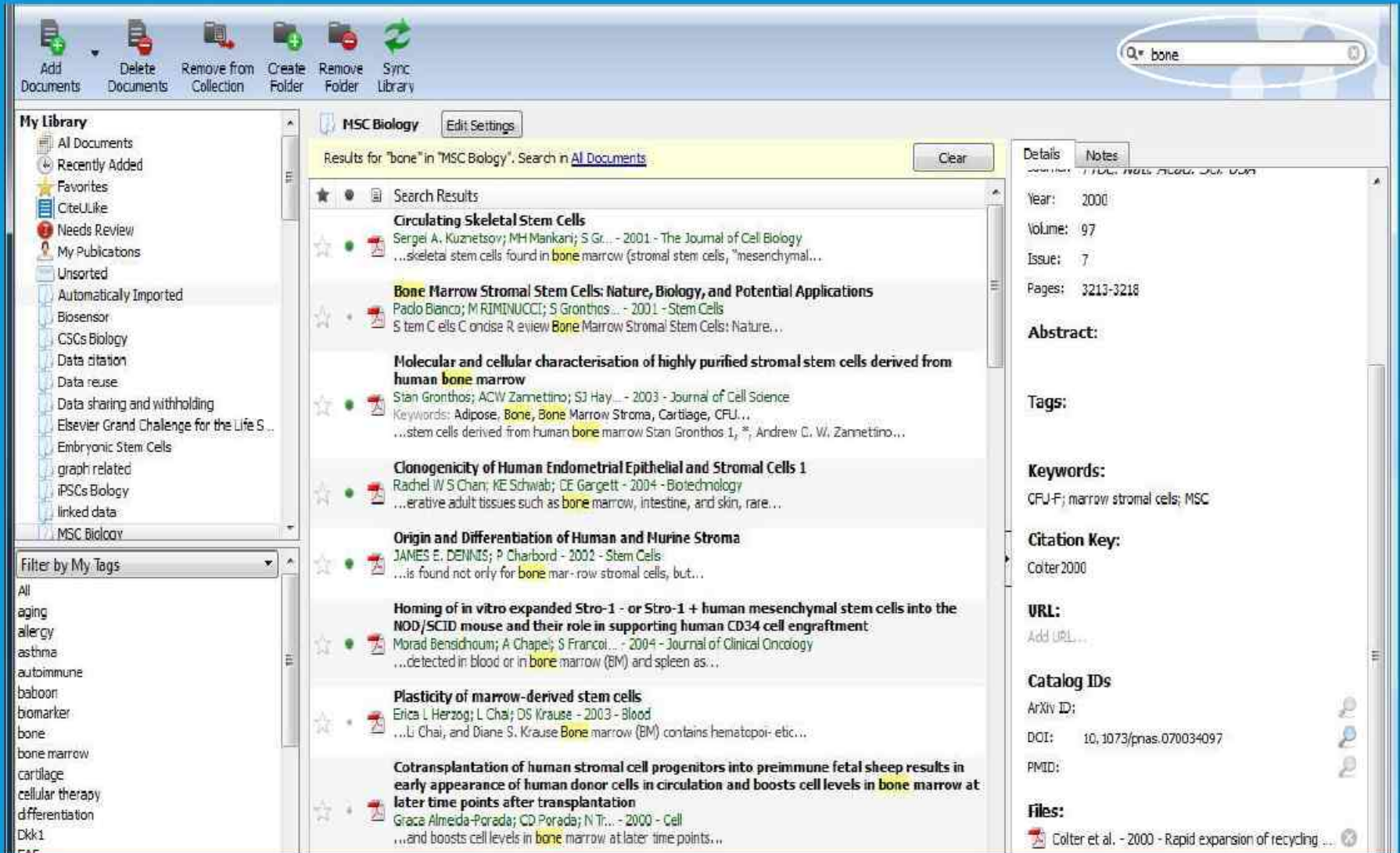
Open attached PDF files in integrated viewer

Star	Read/Unread	Authors	Title	Year	Published In	Added
☆	●	Almeida-Prada, 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...	Third party mesenchymal stromal cell	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	Star your favorite papers 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 Cells	2004	Biotechnology	3/7/09
★	●	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
☆	●	Etheridge, S. Leah; ...	Expression Profiling and Functional Analysis	2004	Stem Cells	3/22/09

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The screenshot shows the Mendeley Desktop application interface. At the top, there is a toolbar with icons for 'Add Documents', 'Delete Documents', 'Remove from Collection', 'Create Folder', 'Remove Folder', and 'Sync Library'. A search bar in the top right corner contains the text 'Q bone'. The left sidebar shows a tree view of the user's libraries, with 'MSC Biology' selected. Below the sidebar, there is a 'Filter by My Tags' section with a list of tags including 'aging', 'allergy', 'asthma', 'autoimmune', 'baboon', 'biomarker', 'bone', 'bone marrow', 'cartilage', 'cellular therapy', 'differentiation', 'Dkk1', and 'EMF'. The main pane displays search results for 'bone' in the 'MSC Biology' library. The results are listed in a table with columns for 'Search Results', 'Details', and 'Notes'. The first result is 'Circulating Skeletal Stem Cells' by Sergei A. Kuznetsov et al. (2001). The second result is 'Bone Marrow Stromal Stem Cells: Nature, Biology, and Potential Applications' by Paolo Bianco et al. (2001). The third result is 'Molecular and cellular characterisation of highly purified stromal stem cells derived from human bone marrow' by Stan Gronthos et al. (2003). The fourth result is 'Clonogenicity of Human Endometrial Epithelial and Stromal Cells 1' by Rachel W S Chan et al. (2004). The fifth result is 'Origin and Differentiation of Human and Murine Stroma' by JAMES E. DENNIS et al. (2002). The sixth result is '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' by Morad Bensidhoum et al. (2004). The seventh result is 'Plasticity of marrow-derived stem cells' by Erica L Herzog et al. (2003). The eighth result is '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' by Grace Almeda-Porada et al. (2000). The right pane shows the details of the selected document, including 'Year: 2000', 'Volume: 97', 'Issue: 7', 'Pages: 3213-3218', 'Abstract:', 'Tags:', 'Keywords: CFU-F; marrow stromal cells; MSC', 'Citation Key: Colter2000', 'URL: Add URL...', 'Catalog IDs: ArXiv ID: DOI: 10.1073/pnas.070034097 PMID:', and 'Files: Colter et al. - 2000 - Rapid expansion of recycling ...'.

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

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- Circulating Skeletal Stem Cells**
 Sergei A. Kuznetsov; MH Mankari; 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 ondise 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 Zarnetino; 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. Zarnetino...
- 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 hematopoietic...
- 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**
 Grace Almeda-Porada; CD Porada; N Tr... - 2000 - Cell
 ...and boosts cell levels in bone marrow at later time points...

Details **Notes**

Year: 2000
 Volume: 97
 Issue: 7
 Pages: 3213-3218

Abstract:

Tags:

Keywords:
 CFU-F; marrow stromal cells; MSC

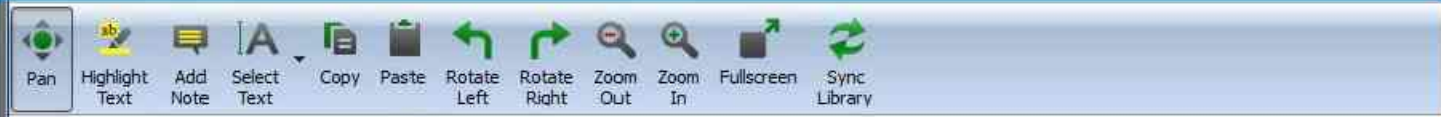
Citation Key:
 Colter2000

URL:
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ArXiv ID:
 DOI: 10.1073/pnas.070034097
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Bone Marrow Stromal ...

STEM CELLS

Concise Review

Bone Marrow Stromal Stem Cells: Nature, Biology, and Potential Applications

PAOLO BIANCO,^a MARA RIMINUCCI,^b STAN GRONTHOS,^c PAMELA GEHRON ROBEY^c

^aDipartimento di Medicina Sperimentale e Patologia, Università La Sapienza, Roma, Italy;

^bDipartimento di Medicina Sperimentale, Università dell'Aquila, L'Aquila, Italy; ^cCraniofacial and Skeletal Diseases Branch, National Institute of Dental and Craniofacial Research, National Institutes of Health, Bethesda, Maryland, USA

Key Words. Marrow stromal stem cells · Microvasculature · Pericytes · Transplantation · Skeleton · Stem cells · Plasticity · Gene therapy · Somatic cell therapy

ABSTRACT

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

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

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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-DRB1 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 18, 2010 (day) for a total of 22 days, mycophenolate mofetil, and methotrexate were also tried. By day 70, the patient had developed grade IV acute GVHD, including diarrhoea up to 20 times daily, and a bilirubin concentration of 250 mmol/L. He was treated for repeated bacterial, viral, and invasive fungal infections.

We chose the mother as donor, because she was readily available and because MHC-compatibility is not necessary for mesenchymal stem-cell immunosuppression.¹ After ethics-committee approval and informed consent, mesenchymal stem cells were isolated as previously described.¹ Briefly, we isolated mononuclear cells from a bone marrow aspirate by Percoll gradient centrifugation (Sigma, St Louis, MO, USA). The cells were plated at a density of 3×10^5 cells per 175 cm^2 in polystyrene flasks in low glucose Dulbecco's modified Eagle's medium (Life Technologies, Gaithersburg, MD, USA), supplemented with 10% fetal

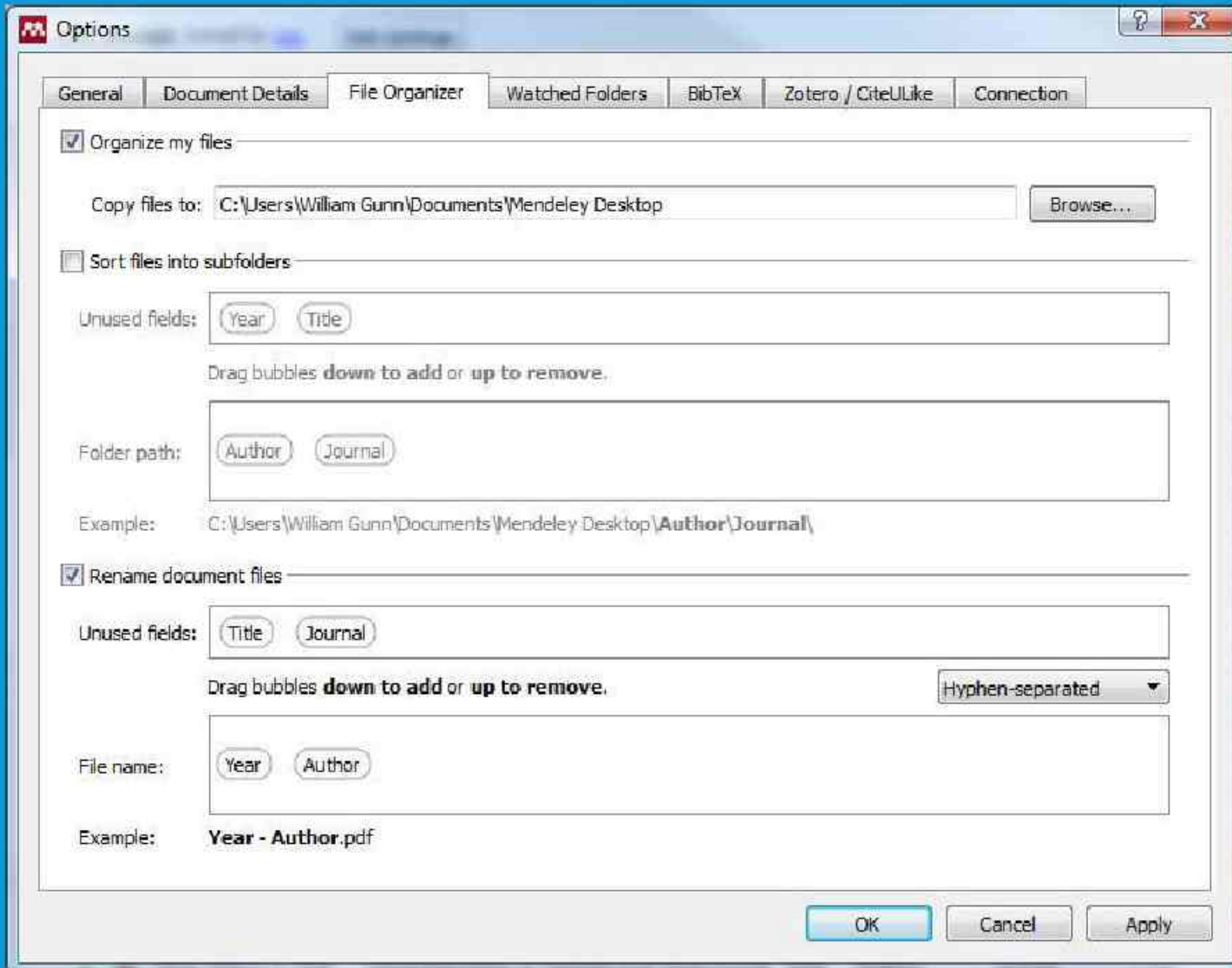
Figure 1: Bilirubin and stools concentration over time. The graph shows Bilirubin concentration (mmol/L) on the left y-axis (0 to 300) and Number of stools per day on the right y-axis (0 to 25). The x-axis represents time in days (0 to 100). Bilirubin concentration (black circles) rises sharply after day 20, peaking at approximately 250 mmol/L around day 70. Stools concentration (open circles) also rises after day 20, peaking at approximately 20 stools per day around day 70. A vertical line at day 20 indicates the start of MSC treatment (MSC = $10^5/\text{kg}$).

MSC = $10^5/\text{kg}$

● Bilirubin
○ Stools

Number of stools per day

Bilirubin concentration (mmol/L)



The screenshot shows the 'Options' dialog box with the 'File Organizer' tab selected. The 'Organize my files' checkbox is checked. The 'Copy files to' field is set to 'C:\Users\William Gunn\Documents\Mendeley Desktop'. The 'Sort files into subfolders' checkbox is unchecked. The 'Unused fields' for sorting are 'Year' and 'Title'. The 'Folder path' is 'Author' and 'Journal'. The 'Example' path is 'C:\Users\William Gunn\Documents\Mendeley Desktop\Author\Journal\'. The 'Rename document files' checkbox is checked. The 'Unused fields' for renaming are 'Title' and 'Journal'. The 'Drag bubbles' are set to 'Hyphen-separated'. The 'File name' is 'Year' and 'Author'. The 'Example' file name is 'Year - Author.pdf'. The 'OK', 'Cancel', and 'Apply' buttons are at the bottom.

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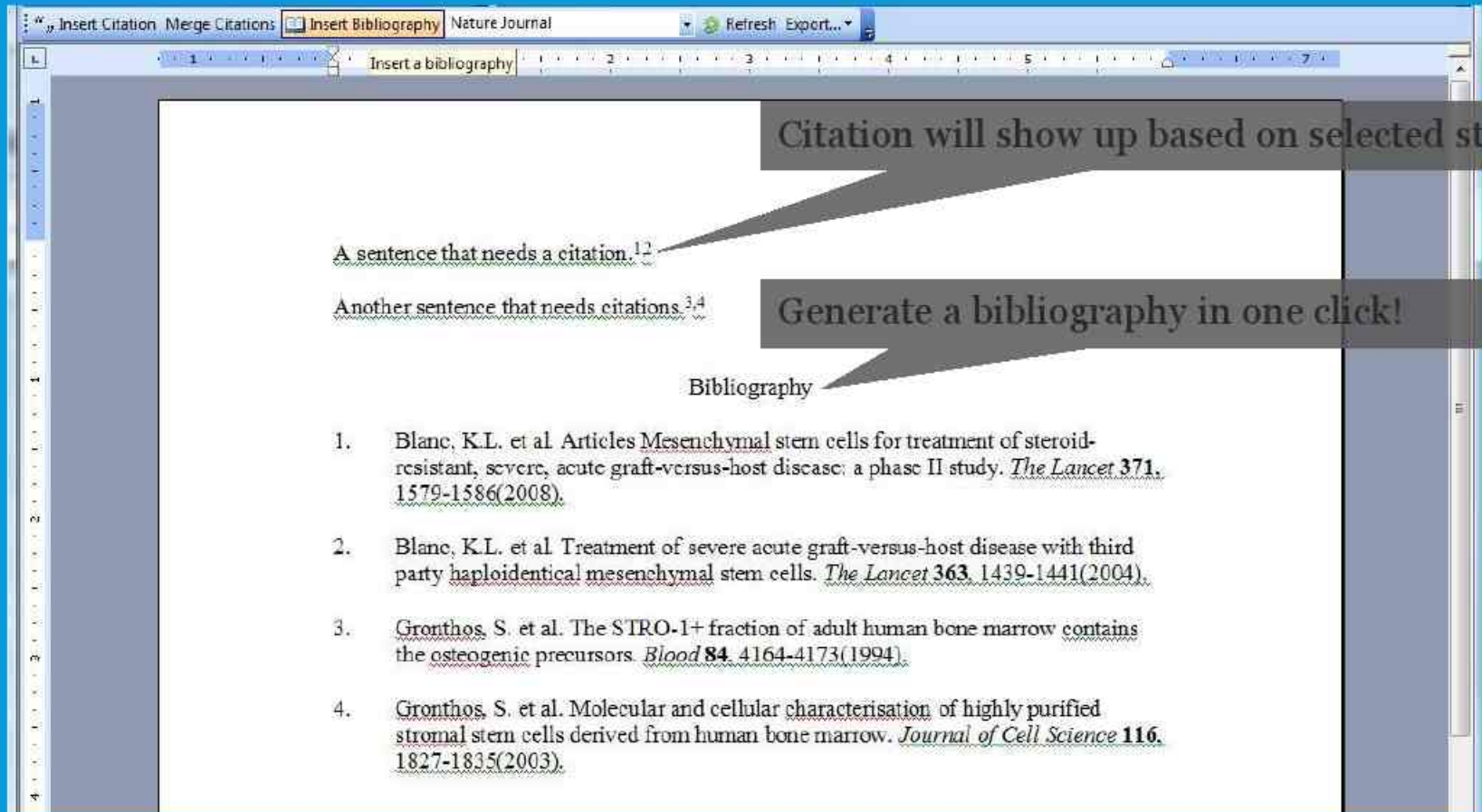
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OK Cancel Apply

You can find the
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Citing and sharing references



The screenshot shows the Mendeley application window. The top menu bar includes 'Insert Citation', 'Merge Citations', 'Insert Bibliography', 'Nature Journal', 'Refresh', and 'Export...'. The main window has a tab labeled 'Insert a bibliography'. Below the tab, there are two text boxes with citations: 'A sentence that needs a citation^{1,2}' and 'Another sentence that needs citations^{3,4}'. A callout bubble points to the first sentence with the text 'Citation will show up based on selected style'. Another callout bubble points to the 'Insert Bibliography' button with the text 'Generate a bibliography in one click!'. Below the text boxes, there is a section titled 'Bibliography' containing a list of four references:

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**, 1827-1835(2003).

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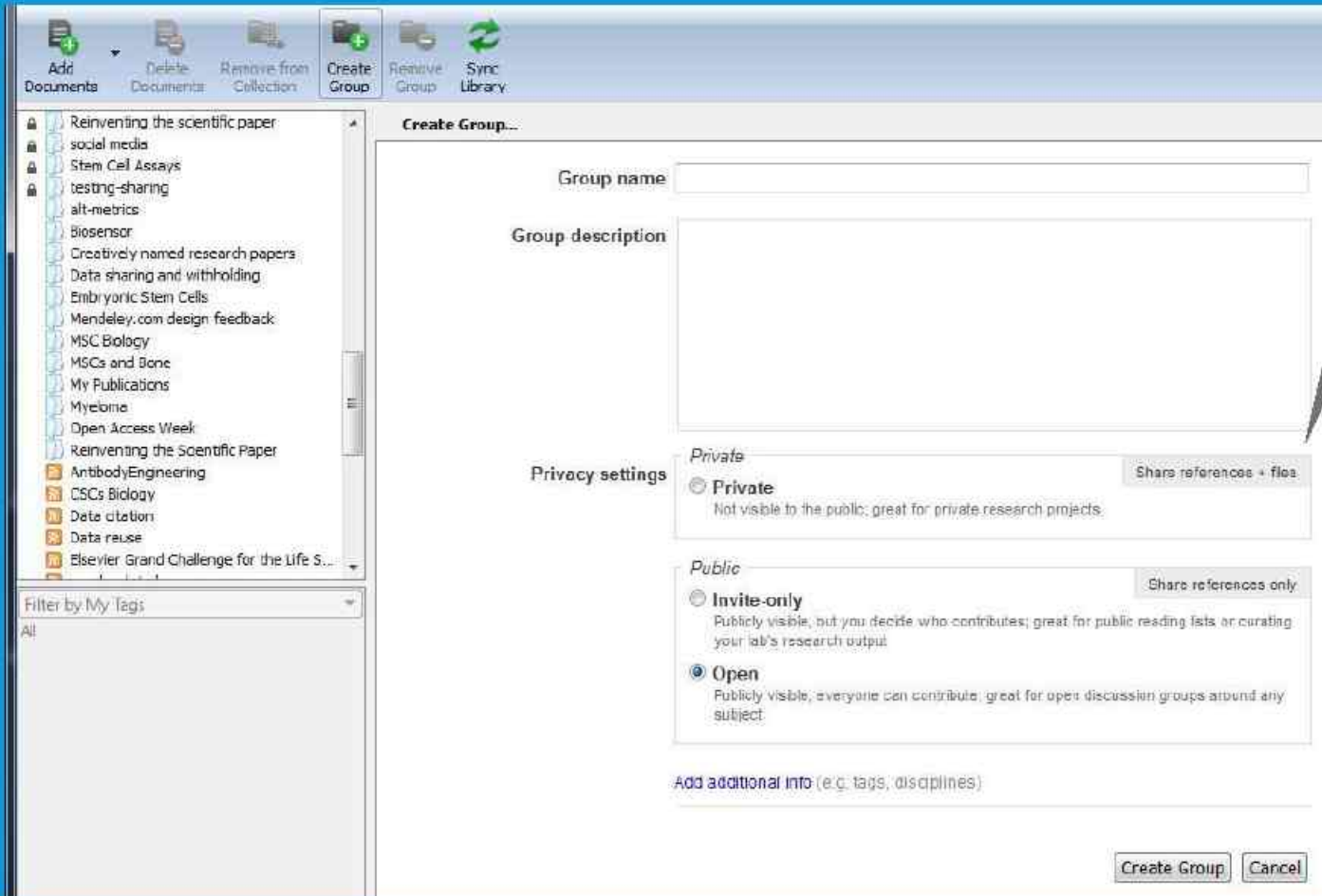
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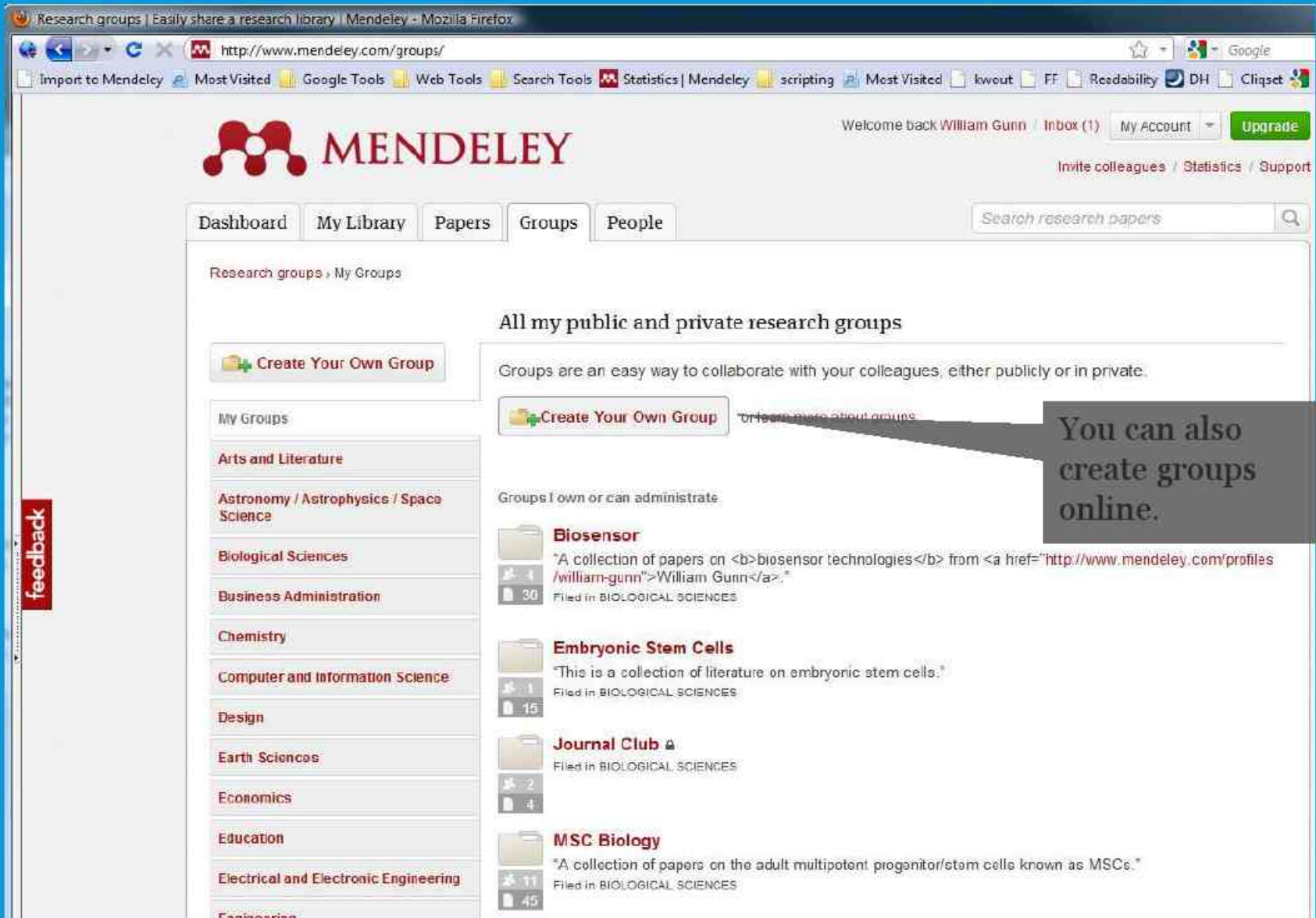
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Volume: 10, Issue: 1, Publisher: Nature Publishing Group, Pages: 57-63

PubMed ID: 19015660

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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 transcriptomes.

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1. Wang, Z., Gerstein, M. & Snyder, M. RNA-Seq: a revolutionary tool for transcriptomics. **10**, 57-63 (2009).at <<http://www.ncbi.nlm.nih.gov/pubmed/19015660>>

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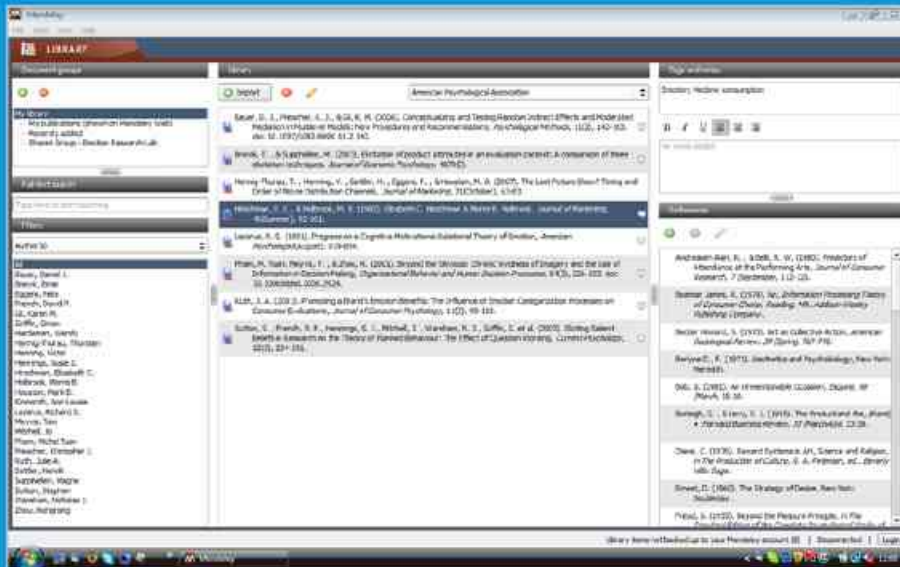
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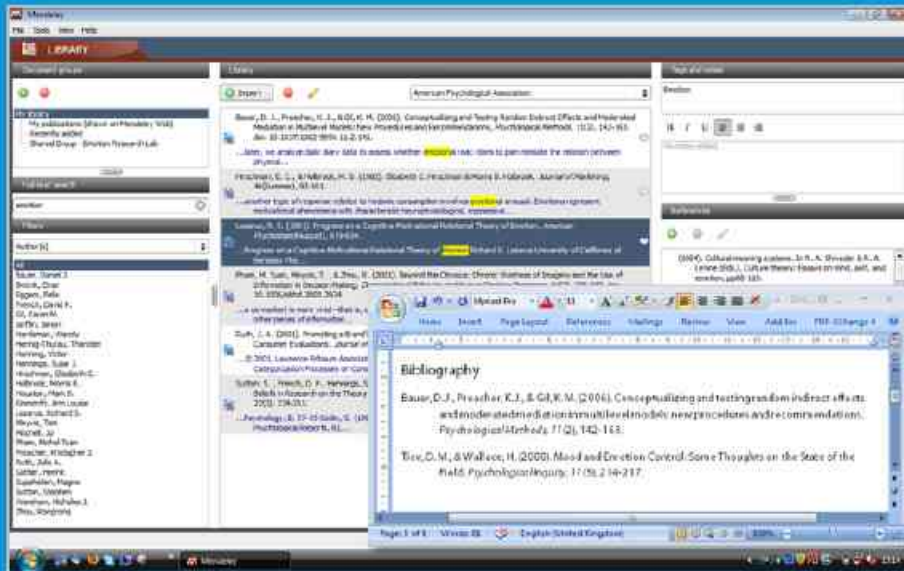
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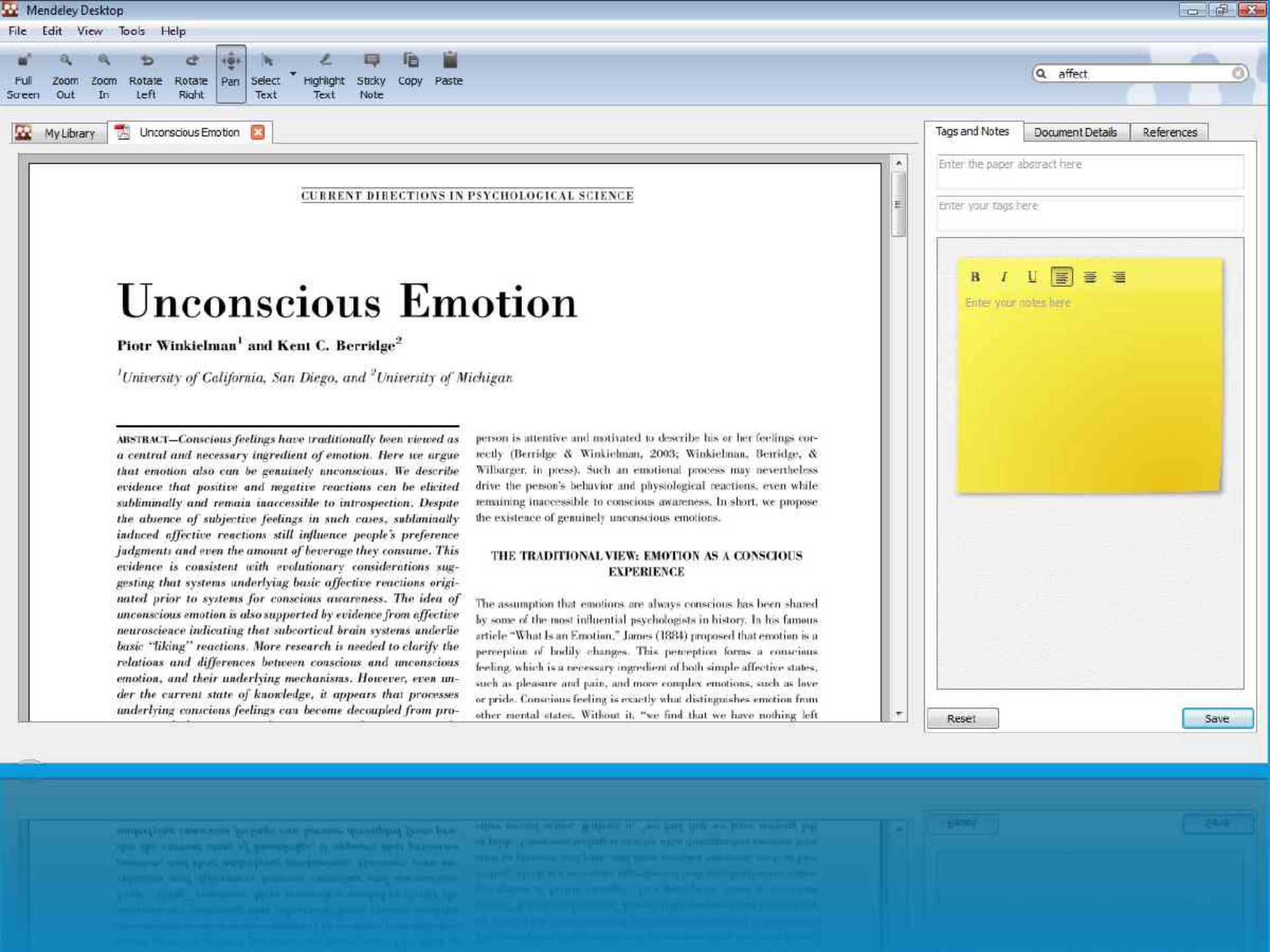
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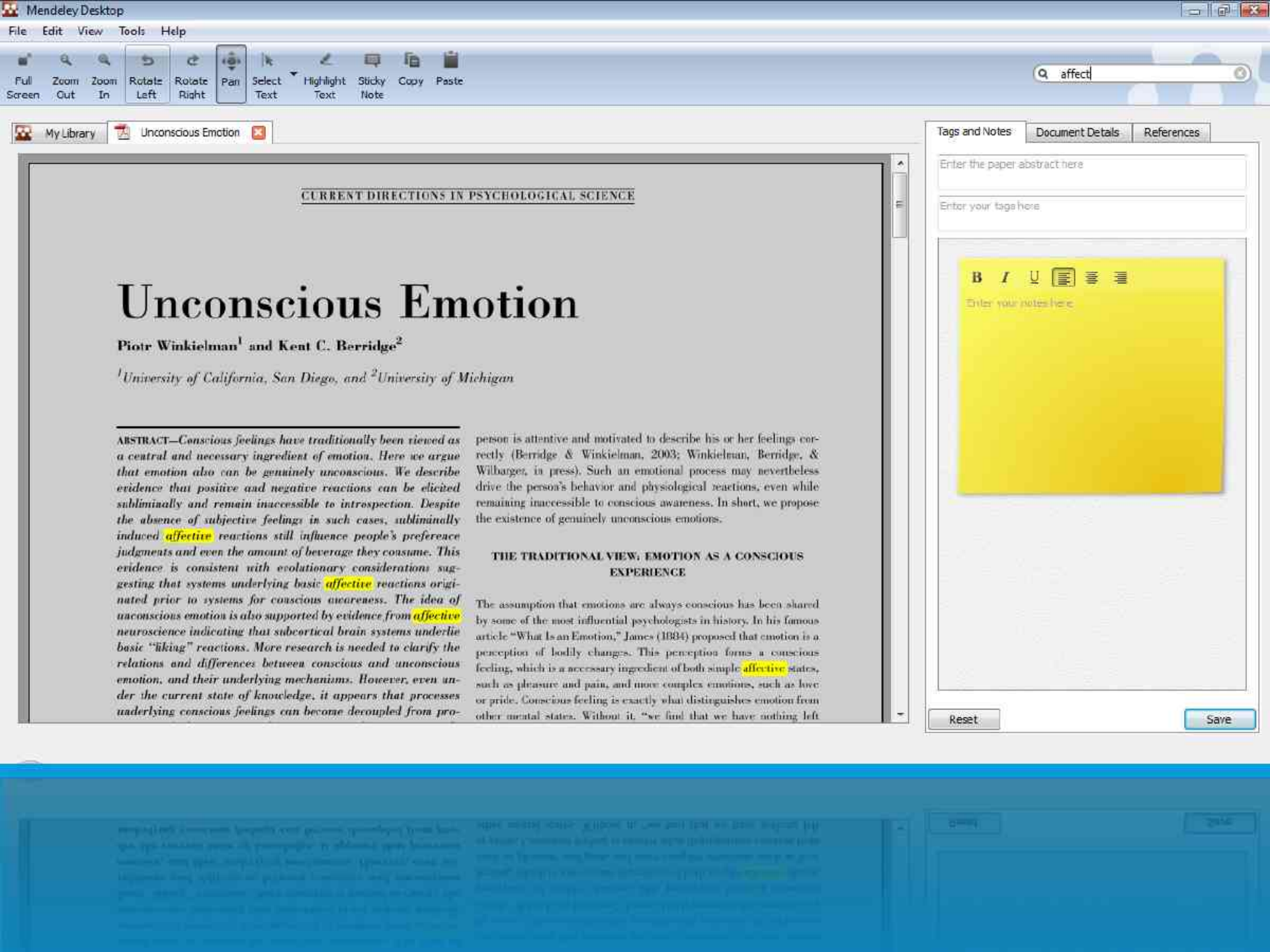


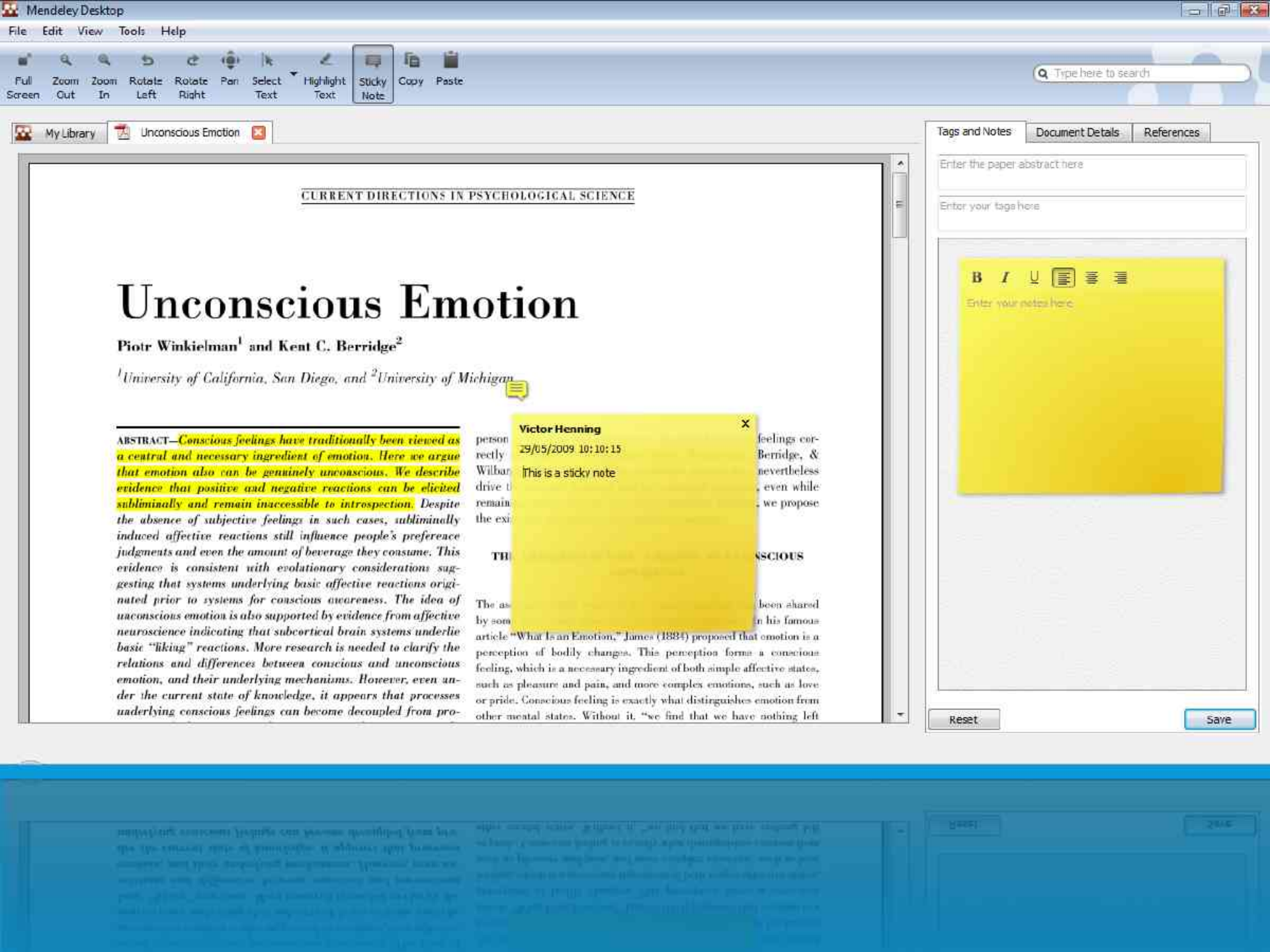


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