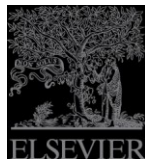




*Полнотекстовая система SciVerse
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search...

Общий рейтинг > ТОП 100

О Новом Рейтинге

Новости

Рейтинг ведущих университетов мира

Вопросник

Информация

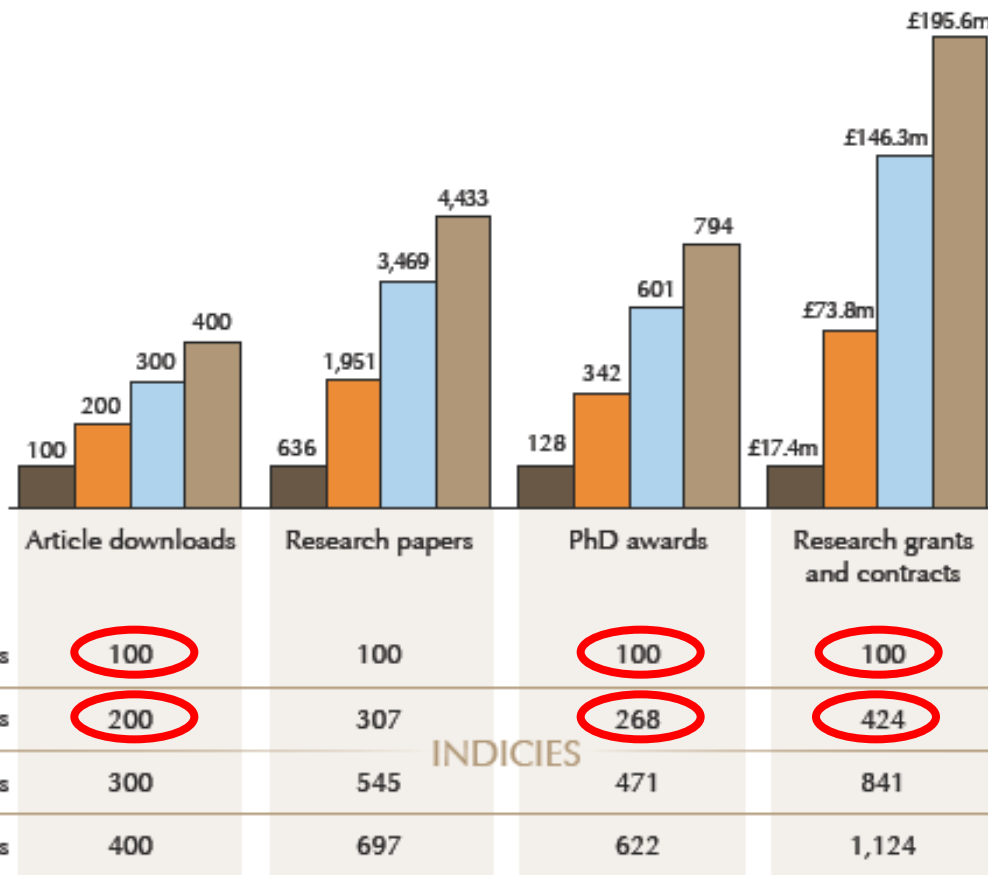
ТОП - 100 (Рейтинг ведущих университетов мира)

- 1 Массачусетский технологический институт, USA
- 2 Калифорнийский технологический институт, USA
- 3 Токийский университет, Japan
- 4 Колумбийский Университет, USA
- 5 Московский государственный университет имени М.В.Ломоносова, Russia

В оценки всех рейтингов входят такие показатели как число опубликованных статей и цитируемость



Исследования University College London подтверждают сильную корреляцию между использованием е-журналов , публикацией статей и распределением средств

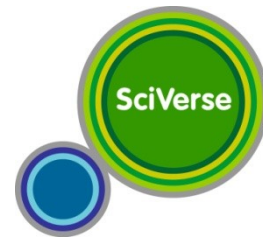


“Удвоение в загрузке, с 1 до 2 миллионов, статистически связано с существенным – но не обязательно является причиной – увеличением исследовательской продуктивности”

Рост статей – на 207%
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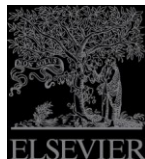
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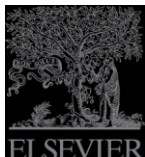
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5. Над третьим энергоблоком японской АЭС "Фукусима-1" [валит серый дым](#) Александр Вертинский

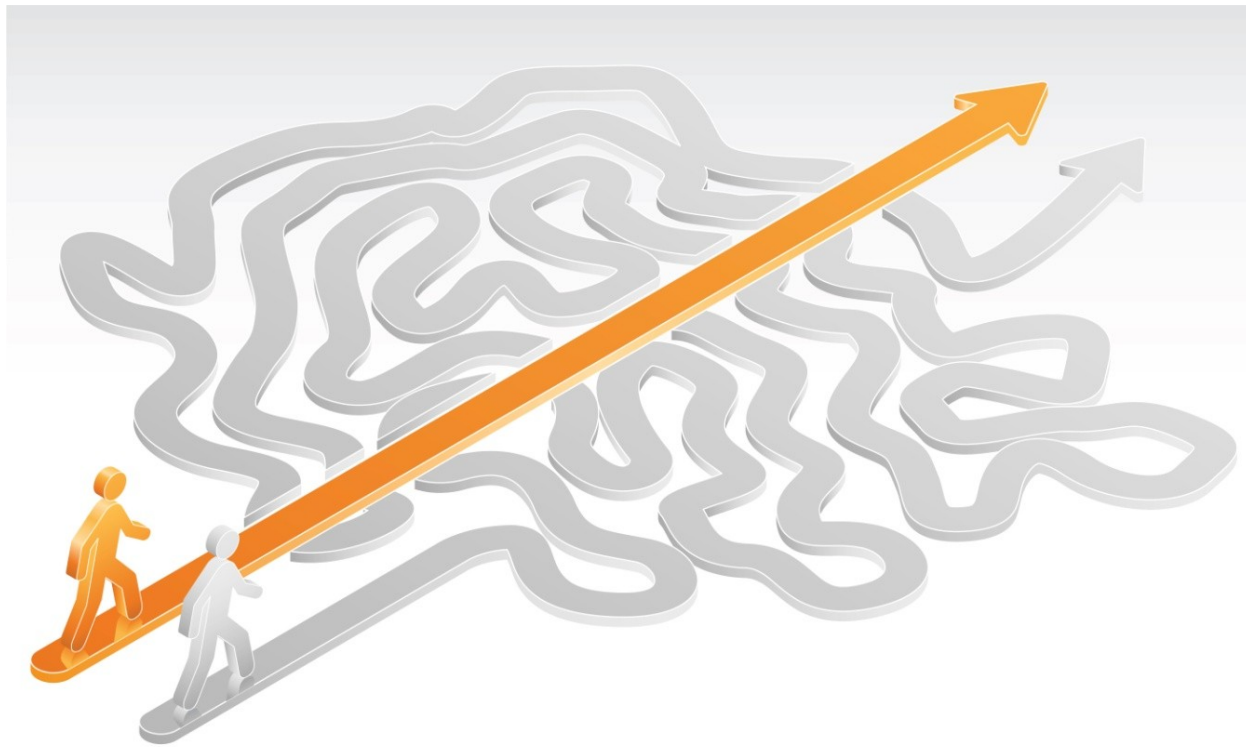
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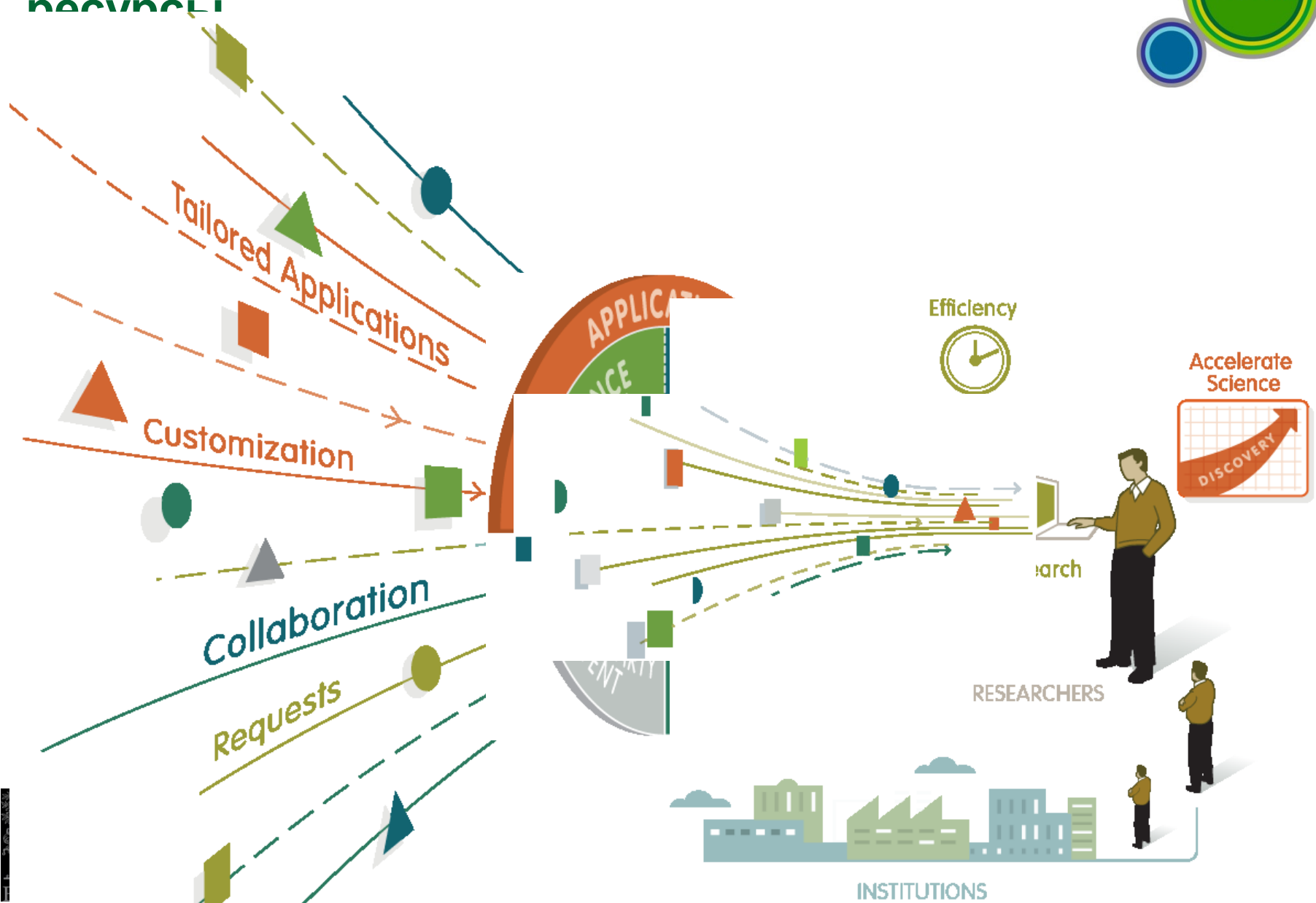


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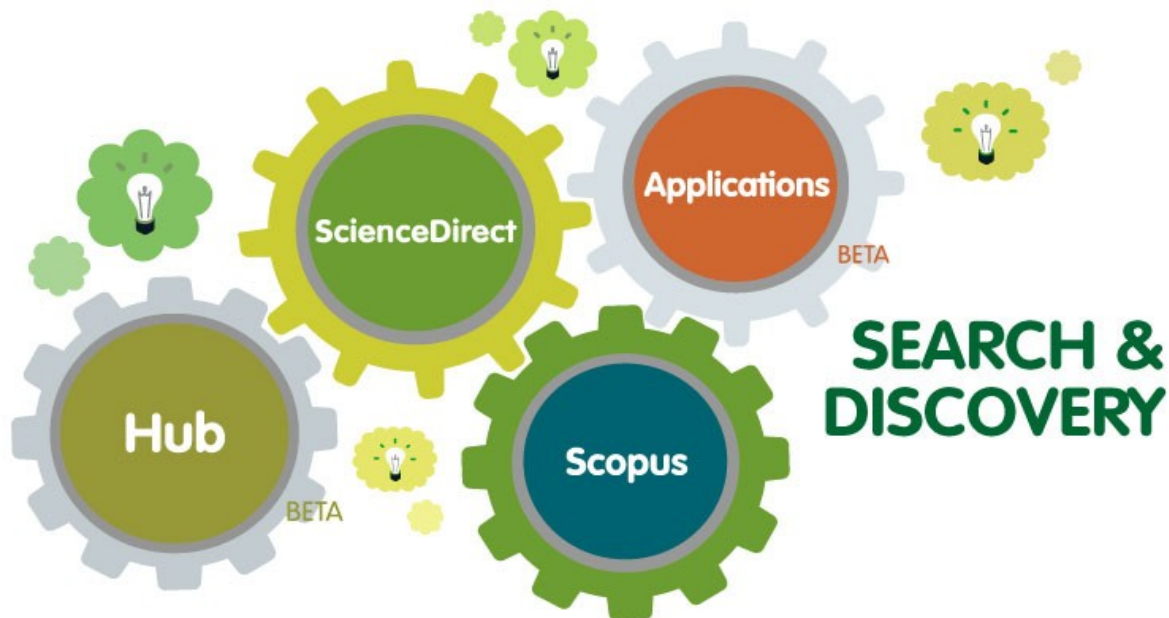
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Что такое SciVerse?

SciVerse позволяет ускорить научно-исследовательский процесс, открывая содержание ScienceDirect & Scopus для разработки APIs сторонними организациями и применяя их для эффективного поиска по объединенному содержанию ScienceDirect, Scopus и научных веб-ресурсов



www.hub.sciverse.com

The screenshot displays the SciVerse Hub interface. At the top, the SciVerse logo and 'Hub BETA' are visible. A navigation bar includes 'Home | My settings' and 'Help'. A search bar is highlighted with a red box, containing the text 'Find insights across SciVerse...' and a 'Search' button. Above the search bar are checkboxes for 'All', 'ScienceDirect', 'Scopus', 'External', and 'Patents'. Below the search bar, a 'Search Assist' dropdown menu is open, showing 'Search Assist: On | Off' and a link to 'Click Here to Deactivate'. Below the search bar, there are three application panels: 'My Workflow Search' (powered by myexperiment), 'Methods Search' (powered by NEXTBIO), and 'ScienceDirect Top 25' (showing 'TOP 25 Hottest Articles').

Hub | ScienceDirect | Scopus | SciTopics | Applications

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Find Methods

powered by NEXTBIO

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[all subject areas]

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SciVerse Hub

- Дополнительные функции фильтрации результатов позволяют выбрать ту информацию, которая вам интересна

The screenshot displays the SciVerse Hub search interface. At the top, there are navigation links for 'Hub', 'ScienceDirect', and 'Scopus'. Below this is a search bar with a 'Search Assist' button and a character count of '1500 Characters Left'. The search results are displayed in a list format, with the first result highlighted in a red box. The highlighted result is titled 'Gender and access to HIV testing and antiretroviral treatments in Thailand: Why do women have more and earlier access?' and is from the journal 'Social Science and Medicine, Volume 69, Pages 846-798, September 2009'. The authors listed are 'Le Coeur, Sophie; Collins, Intira; Pannetier, Julie; ... (+)'. The result also includes a patent number 'US09759456' and a snippet of text: 'Integer vestibulum nisi vel nulla ultrices suscipit. Mauris fringilla sollicitudin nisi sed euismod. Integer vitae ultrices risus. Donec aliquet augue vel mauris porta porta. In hac habitasse platea dictumst. Aenean a nibh ipsum, et posuere quam. Mauris arcu velit, tincidunt sed vulputate non. Full text available at patent office. For more in-depth searching go to LexisNexis Versions (00) (DOI #- 10.1016/S0065-308X(08)00616-7)'. Below the snippet, there is a 'Data Browser' section with a table showing 'Alzheimer's Data found in This Doc' and a 'Similar Documents' section with a list of documents. The interface also includes a 'Search within results' box, a 'Refine Results' section with 'Limit to' and 'Exclude' buttons, and a list of filters for 'Author' and 'Year'. The 'Author' filter includes options like 'C. Atrebatum', 'K. Moridunum', 'N. Aesica', 'X. Segontium', and 'B. Gloucestershire'. The 'Year' filter includes options like '2011 (28)', '2010 (1835088)', '2009 (167142)', '2008 (119107)', and '2007 (93970)'. On the right side, there is a 'Matching Sentences' section with two green boxes showing '4217 sentences' and '1634 paragraphs'. Below this is a 'Most Prolific Authors' section with a list of authors and their corresponding bar charts.

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Sort Relevance

9999. **Gender and access to HIV testing and antiretroviral treatments in Thailand: Why do women have more and earlier access?**
Social Science and Medicine, Volume 69, Pages 846-798, September 2009.
Le Coeur, Sophie; Collins, Intira; Pannetier, Julie; ... (+)
Patent Number: US09759456
Integer vestibulum nisi vel nulla ultrices suscipit. Mauris fringilla sollicitudin nisi sed euismod. Integer vitae ultrices risus. Donec aliquet augue vel mauris porta porta. In hac habitasse platea dictumst. Aenean a nibh ipsum, et posuere quam. Mauris arcu velit, tincidunt sed vulputate non.
Full text available at patent office.
For more in-depth searching go to LexisNexis
Versions (00) (DOI #- 10.1016/S0065-308X(08)00616-7)

Data Browser

Alzheimer's Data found in This Doc	DATA SNIPPET
1) accept change (logit)	...populations of different origins, one suffering from a late onset form of Alzheimer's disease after 65 years 1 and the other from an early onset form of Alzheimer's disease (before 65 years), which permitted a
2) onset age (years)	
3) mortality (%)	
4) diagnosed (people/year)	
5) clinical study (patients)	

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10 Document 1 Title
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Most Prolific Authors

1. Soriano, V.
2. De Clercq, E.
3. Vlahov, D.
4. Katlama, C.
5. Clotet, B.
6. Montaner, J.S...

1. Приложение по соответствию в предложениях - результаты поиска представляют данные о поисковых словах в полном предложении

Articles containing the following search term(s): stem, cell
 By relevance By date

Stem Cells and Niches: Mechanisms That Promote Stem Cell Maintenance throughout Life
 (258 sentences matched the search terms) [Go to article](#)
 Source: CELL
 Authors: Sean J. Morrison, Allan C. Spradling

The Tortoise and the Hair: Slow-Cycling Cells in the Stem Cell Race
 (156 sentences matched the search terms) [Go to article](#)
 Source: Cell, Volume 137, Issue 5, May 29, 2009, Pages 811-819
 Authors: Elaine Fuchs

Stem Cells and the Pathways to Aging and Cancer
 (212 sentences matched the search terms) [Go to article](#)
 Source: CELL
 Authors: Derrick J. Rossi, Catriona H.M. Jamieson, Irving L. Weissman

Stem Cell Therapies: California Dreamin'?
 (43 sentences matched the search terms) [Go to article](#)
 Source: CELL
 Authors: Kris Novak

MicroRNAs and Parallel Stem Cell Lives
 (34 sentences matched the search terms) [Go to article](#)
 Source: Cell, Volume 138, Issue 3, Aug 07, 2009, Pages 423-424
 Authors: Peter B. Dirks

Downregulation of miRNA-200c Links Breast Cancer Stem Cells with Normal Stem Cells

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 stem cell

Stem Cells and Niches: Mechanisms That Promote Stem Cell Maintenance throughout Life

258 sentences in this article containing stem cell

Title
 • Stem Cells and Niches: Mechanisms That Promote Stem Cell Maintenance throughout Life [Add to Clipboard](#)

Abstract

- Niches are local tissue microenvironments that maintain and regulate stem cells. [Add to Clipboard](#)
- Long-predicted from mammalian studies, these structures have recently been characterized within several invertebrate tissues using methods that reliably identify individual stem cells and their functional requirements. [Add to Clipboard](#)
- Although similar single-cell resolution has usually not been achieved in mammalian tissues, principles likely to govern the behavior of niches in diverse organisms are emerging. [Add to Clipboard](#)
- Considerable progress has been made in elucidating how the microenvironment promotes stem cell maintenance.

6 Go | Next page >

Relevance | Date

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10606 sentences **3165** paragraphs

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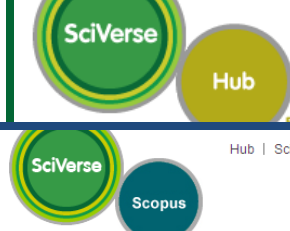
Most Prolific Authors

1. Storb, R.
2. Gratwohl, A.
3. Nagler, A.
4. Takaue, Y.
5. Kanz, L.
6. Eaves, C.J.
7. Gluckman, E.
8. Locatelli, F.
9. Dexter, T.M.
10. Niederwieser, ...

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are promising cell sources to provide enough amounts...is known as induced pluripotent stem cells [3] and [4], further...

5. **Identification of novel epithelial stem cell-like cells in human deciduous dental pulp**
Biochemical and Biophysical Research Communications, Volume 386, Issue 1, August 2009, Pages 135-139



Quick Search Search

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Your query: AU-ID ("Storb, Rainer F." 7202254882) Edit Save Set alert Set feed View search history

Refine results

Source Title	Author Name	Year	Affiliation	Subject Area
<input type="checkbox"/> Blood (103)	<input type="checkbox"/> Storb, R. (276)	<input type="checkbox"/> 2009 (2)	<input type="checkbox"/> Fred Hutchinson Cancer Research Center (191)	<input type="checkbox"/> Medicine (266)
<input type="checkbox"/> Transplantation (32)	<input type="checkbox"/> Appelbaum, F.R. (95)	<input type="checkbox"/> 2008 (1)	<input type="checkbox"/> University of Washington (48)	<input type="checkbox"/> Immunology and Microbiology (47)
<input type="checkbox"/> Bone Marrow Transplantation (19)	<input type="checkbox"/> Thomas, E.D. (77)	<input type="checkbox"/> 2007 (5)	<input type="checkbox"/> University of Washington School of Medicine (48)	<input type="checkbox"/> Biochemistry, Genetics and Molecular Biology (37)
<input type="checkbox"/> Biology of Blood and Marrow Transplantation (17)	<input type="checkbox"/> Deeg, H.J. (68)	<input type="checkbox"/> 2006 (4)	<input type="checkbox"/> Universitat Leipzig (7)	<input type="checkbox"/> Agricultural and Biological Sciences (3)
<input type="checkbox"/> New England Journal of Medicine (15)	<input type="checkbox"/> Sullivan, K.M. (63)	<input type="checkbox"/> 2005 (8)	<input type="checkbox"/> Stanford University (6)	<input type="checkbox"/> Physics and Astronomy (3)

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	Document title (click to sort on relevance)	Author(s)	Date	Source title	Citations
1	<input type="checkbox"/> Thyroid function following hematopoietic cell transplantation in children: 30 years' experience.	Sanders, J.E., Hoffmeister, P.A., Woolfrey, A.E., Carpenter, P.A., Storer, B.E., Storb, R.F., Appelbaum, F.R.	2009	Blood 113 (2), pp. 306-308	0
2	<input type="checkbox"/> Investigation of immunological approaches to enhance engraftment in a 1 Gy TBI canine hematopoietic stem cell transplantation model	Lange, S., Altmann, S., Brandt, B., Adam, C., Riebau, F., Vogel, H., Weirich, V., (...), Junghans, C.	2009	Experimental Hematology 37 (1), pp. 143-150	0
3	<input type="checkbox"/> Nonmyeloablative allogeneic hematopoietic cell transplantation in relapsed, refractory, and transformed indolent non-Hodgkin's lymphoma	Rezvani, A.R., Storer, B., Maris, M., Sorror, M.L., Agura, E., Maziarz, R.T., Wade, J.C., (...), Maloney, D.G.	2008	Journal of Clinical Oncology 26 (2), pp. 211-217	0
4	<input type="checkbox"/> Hematopoietic cell transplantation-specific comorbidity index as an outcome predictor for patients with acute myeloid leukemia in first remission: Combined FHRC and MDACC experiences	Sorror, M.L., Giralt, S., Sandmaier, B.M., De Lima, M., Shahjahan, M., Maloney, D.G., Deeg, H.J., (...), Storb, R.	2007	Blood 110 (13), pp. 4606-4613	1
5	<input type="checkbox"/> Relapse risk in patients with malignant diseases given allogeneic hematopoietic cell transplantation after nonmyeloablative conditioning	Kahl, C., Storer, B.E., Sandmaier, B.M., Mielcarek, M., Maris, M.B., Blume, K.G., Niederwieser, D., (...), Storb, R.	2007	Blood 110 (7), pp. 2744-2748	1

Yamato, Masayuki ; Okano, Teruo

...regenerative medicine based on cell transplantation therapies attracts...organ transplantation. Embryonic stem cells (ESCs) are promising cell sources to provide enough amounts...is known as induced pluripotent stem cells [3] and [4] , further...

5. Identification of novel epithelial stem cell-like cells in human deciduous dental pulp
Biochemical and Biophysical Research Communications, Volume 386, Issue 1, August 2009, Pages 135-139

2. Приложение по поиску самых «продуктивных» авторов помогает найти авторов с наибольшим количеством статей соответствующих поисковым терминам, со ссылками на данные из Scopus

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6. Eaves, C.J.
7. Gluckman, E.
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9. Dexter, T.M.
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- group
- 1. Stem cells, Tissue engineering & Regenerative medicine
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- user
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2. 2-Iodoxybenzoic acid (IBX): an efficient hypervalent iodine reagent
3. Recent progress in the application of N-halo reagents in the synthesis of heterocyclic compounds

Clear all selections

YEAR

Clear selections

- 2010 (912)
- 2009 (1574)
- 2008 (1503)
- 2007 (1340)
- 2006 (1266)
- 2005 (1035)
- 2004 (1039)
- 2003 (910)
- 2002 (696)
- 2001 (537)

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- Biology of Blood and Marrow Transplantation (463)
- Biomaterials (274)
- Biochemical and Biophysical Research Communications (249)
- Brain Research (220)
- Leukemia Research (213)
- Neuroscience (191)
- Forest Ecology and Management (186)
- Phytochemistry (169)
- Plant Science (159)

More...

AUTHORS

Clear selections

- Hillard M. Lazarus (18)
- Rainer Storb (18)
- Joseph H. Antin (15)
- Robert Peter Gale (15)
- Shimon Slavin (14)
- Amon Nagler (13)

Articles containing the following search term(s): stem cell

By relevance By date

Hypoxia-Inducible Factors Regulate Tumorigenic Capacity of Glioma Stem Cells

Source: Cancer Cell, Volume 15, Issue 6, June 02, 2009, Pages 501-513

Authors: Zhizhong Li, Shideng Bao, Qiulian Wu, Hui Wang, Christine Eyer, Sith Sathornsumetee, Qing Shi, Yiting Cao, Justin Lathia, Roger E. McLendon, ...

METHOD: ... Experimental Procedures Isolation of Glioma Stem Cells, Non-Stem Glioma Cells, and Normal Neural Progenitors Matched cultures enriched or depleted for GSCs were isolated from primary human ...

Activating the PARP-1 Sensor Component of the Groucho/ TLE1 Corepressor Complex Mediates a CaMKinase II δ -Dependent Neurogenic Gene Activation Pathway

Source: Cell, Volume 119, Issue 6, December 17, 2004, Pages 815-829

Authors: Bong-Gun Ju, Derek Solum, Eun Joo Song, Kong-Joo Lee, David W. Rose, Christopher K. Glass

METHOD: ... Experimental Procedures available online. Neural Stem Cell Cultures available online. ... previously ...

An Epigenetic Switch Involving NF- κ B, Lin28, Let-7 MicroRNA, and IL6 Links Inflammation to Cancer

Source: Cell, Volume 139, Issue 4, November 13, 2009, Pages 693-706

Authors: Dimitrios Iliopoulos, Heather A. Hirsch, Kevin Struhl

METHOD: ... Experimental Procedures Cell Culture, Cellular Transformation Assays, and Gene Expression Analysis. ... fusion of the v-Src oncprotein ...

Age-Specific Acceleration of Cancer

Source: Current Biology, Volume 14, Issue 3, February 03, 2004, Pages 242-246

Authors: Steven A. Frank

METHOD: ... Experimental Procedures Cell Lineages The intestine provides the clear evidence for stem cell ...

TUT4 in Concert with Lin28 Suppresses MicroRNA Biogenesis through Pre-MicroRNA Processing

Source: Cell, Volume 138, Issue 4, August 21, 2009, Pages 696-708

Authors: Inha Heo, Chirimin Joo, Young-Kook Kim, Minju Ha, Mi-Jeong Yoon, Jun Cho, Kyu-Hyeon Yeon, ...

METHOD: ... Experimental Procedures Cell Culture HEK293T cell was grown in DMEM supplemented with 10% fetal bovine serum. Embryonic stem cell line R1 was maintained ...

Cyclin D1 Kinase Activity Is Required for the Self-Renewal of Mammary Stem and Progenitor Cells that Are Targets of MMTV-ErbB2 Tumorigenesis

Source: Cancer Cell, Volume 17, Issue 1, January 19, 2010, Pages 65-76

Authors: Rinath Jeselsohn, Nelson E. Brown, Lisa Arendt, Ina Klebba, Miaofen G. Hu, Charlotte Kuperwasser, Philip W. Hinds

METHOD: ... cells using the Easysep mouse mammary stem cell enrichment kit (Stem Cell Technologies). Mammary Fat-Pad Transplants For limiting dilution experiments, freshly isolated MECs were ...

p63 Is Essential for the Proliferative Potential of Stem Cells in Stratified Epithelia

Source: CELL

Authors: Makoto Senoo, Filipa Pinto, Christopher P. Crum, Frank McKeon

METHOD: ... with the Guidelines for Animal Experiments at Harvard Medical School. Epithelial Stem Cell Culture Mouse thymic epithelial cells (TECs) were cultured as described with some ...

Frequent Amplification of a chr19q13.41 MicroRNA Polycomb in Aggressive Primitive Neuroectodermal Brain Tumors

Article | Figures/Tables (9) | References (63) | Thumbnails | Full-Size Images

Cancer Cell
Volume 15, Issue 6, 2 June 2009, Pages 501-513

doi:10.1016/j.ccr.2009.03.018 | How to Cite or Link Using DOI | Cited By in Scopus (31) | Permissions & Reprints

Article

Hypoxia-Inducible Factors Regulate Tumorigenic Capacity of Glioma Stem Cells

Zhizhong Li¹, Shideng Bao^{2,5}, Qiulian Wu^{2,5}, Hui Wang¹, Christine Eyer^{1,2}, Sith Sathornsumetee², Qing Shi², Yiting Cao², Justin Lathia^{2,5}, Roger E. McLendon², Anita B. Helmland^{2,5} and Jeremy N. Rich^{1,2,4,5}

¹Department of Pharmacology and Cancer Biology, Duke University Medical Center, Durham, NC 27710, USA
²Department of Surgery, Duke University Medical Center, Durham, NC 27710, USA
³Department of Pathology, Duke University Medical Center, Durham, NC 27710, USA
⁴Department of Medicine, Duke University Medical Center, Durham, NC 27710, USA
⁵Department of Stem Cell Biology and Regenerative Medicine, Cleveland Clinic, Cleveland, OH 44195, USA
 Received 5 September 2008; revised 17 December 2008; accepted 20 March 2009; Published: June 1, 2009; Available online 1 June 2009.

Summary
 Glioblastomas are lethal cancers characterized by florid angiogenesis promoted in part by glioma stem cells (GSCs). Because hypoxia regulates angiogenesis, we examined hypoxic responses in GSCs. We now demonstrate that hypoxia-inducible factor HIF2 α and multiple HIF-regulated genes are preferentially expressed in GSCs in comparison to non-stem tumor cells and normal neural progenitors. In tumor specimens, HIF2 α colocalizes with cancer stem cell markers. Targeting HIFs in GSCs inhibits self-renewal, proliferation, and survival in vitro, and attenuates tumor initiation potential of GSCs in vivo. Analysis of a molecular database reveals that HIF2 α expression correlates with poor glioma patient survival. Our results demonstrate that GSCs differentially respond to hypoxia with distinct HIF induction patterns, and HIF2 α might represent a promising target for anti-glioblastoma therapies.

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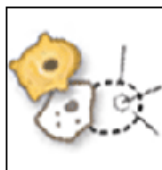


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Structural and optical properties of AgIn_5S_8 films prepared by pulsed laser deposition

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Available online 4 March 2005.

Abstract

AgIn_5S_8 thin films were prepared by pulsed laser deposition onto glass substrates. The AgIn_5S_8 crystals, as target material, were prepared by Bridgman growth (vertical variant). Crystal structure, chemical composition, surface morphology of laser-deposited films and transmittance and reflectance spectra in the 0.4–2.5- μm wavelength range have been investigated. Band-to-band transition energies were calculated from the optical spectra in the region of the fundamental absorption edge. The obtained results are compared to existing data of single-crystalline AgIn_5S_8 bulk material.

Keywords: Deposition process; Composition; Thin Film; X-ray diffraction

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2. Experimental details

3. Results and discussion

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1. Introduction

$A^I B^III C^VI_2$ (A—Cu,Ag; B—Al,In,Ga; C—S,Se,Te) compounds are promising materials for the fabrication of a variety electro-optical devices and high efficiency thin film solar cells ($\eta \approx 19\%$) [1], [2] and [3]. The physical characteristics of these materials can be changed by obtaining solid solutions based on these compounds [1]. However, on cuts of $A^I B^III C^VI$ systems alongside with $A^I B^III C^VI_2$ compounds there are also ordered phases with the general formula $A^I B^III C^VI_8$ [4] and [5] which should also be considered as an effective approach in preparation of materials with required electrical and optical properties. Physical characteristics of such phases are still investigated insufficiently and in this connection their practical potential up to the end is not found yet. The compound $AgIn_5S_8$ belongs to defective semiconductors with a typical around 25%. The electrophysical properties of this compound depend weakly on the introduction under radiating influences that allows to use its as a perspective material for semiconductor and The three elements may form several compounds, depending on the preparation condition. This conditions and an investigation of physical properties of these materials. The excellent performance the preparation of high-temperature superconductors has now become a popular thin film deposition materials [6] and [7]. The main advantages of this method are the reproducibility of the target composition arrangement.

In this contribution, we have investigated the feasibility of pulsed laser deposition for preparation composition, surface morphologies and optical properties of the films on the glass substrates with

2. Experimental details

The $AgIn_5S_8$ crystals, as target material, were prepared by Bridgman growth (vertical variant). The starting components (25 g) from high-purity metals (Silver, Indium—99.999% and Sulphur—99.9999%) were taken in proportions corresponding to the stoichiometric composition of the compound and loaded into quartz ampoules with a conical bottom. The growth of crystals was carried out in ampoules about 170 mm in length with diameter between 15–22 mm, that were chemically treated by etching in a mixture of acids $HNO_3/HCl=1:3$, washing in distilled water and annealing for 2 h at 1270 K. The ampoules were evacuated down to 10^{-3} Pa and sealed. A quartz pivot was welded to the bottom part of the ampoule and then it was

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Journal of Alloys and Compounds, Volume 508, Issue 2, 22 October 2010, Pages 380-383

Abstract
The temperature (T) and illumination intensity (F) effects on the photoconductivity of as grown and heat-treated AgIn5S8 thin films has been investigated. At fixed illumination intensity, in the temperature region of 40-300 K, the photocurrent (Iph) of the films was observed to decrease with decreasing temperature.

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1270 K. The ampoules were evacuated down to 10^{-3} Pa and sealed. A quartz pivot was welded to the bottom part of the ampoule and then it was placed into a vertical one-zone furnace with a temperature gradient. For the synthesis, the temperature of the furnace was increased from room temperature with the rate of 50 K/h up to 1370 K which is melting point of AgIn_5S_8 . The melt was homogenized for 3 h by vibration mixing and subsequently directionally crystallized by lowering the furnace temperature with a rate of 2 K/h. An annealing step at 1000 K for 200 h was used for further homogenization of the as-grown ingots. Then the temperature was lowered to 700 K and the furnace was switched off. The crystals obtained by this method had a diameter of 14 mm and a length of around 50 mm. The fabricated targets were 14 mm in diameter, cut from the as-grown crystals. The AgIn_5S_8 thin films were then prepared on Corning glass substrates ($2 \times 2 \text{ cm}^2$) by PLD using a Nd:YAG laser operated at a wavelength of $1.06 \mu\text{m}$ with a pulse duration of 10^{-3} s. Substrate temperatures (T_s) in the range 450–480 °C were used with a target-to-substrate distance of 7–10 cm. Laser pulses (20–40) with a repetition rate of 3×10^{-2} Hz were incident on the target at an angle of 45°. The partly focused laser (focal length=500 mm) beam was scanned over the target surface and the films were deposited at a residual pressure of about 10^{-5} Torr. By changing the high voltage between 2.3 and 2.5 kV of the laser, the laser energy was varied from 150 to 180 J per pulse. The laser spot size on the target was measured to be $3 \times 5 \text{ mm}^2$. Typical deposition rates were $(2\text{--}4) \times 10^5 \text{ \AA/s}$ and the thickness of the films was 700–1500 nm, measured with a surface profile measuring apparatus. The phases and crystallographic structure of the AgIn_5S_8 crystals and films were investigated by X-ray diffraction (XRD) using $\text{Cu K}\alpha$ ($\lambda=1.5405 \text{ \AA}$) radiation in the range $2\theta=15\text{--}100^\circ$. The observed phases were determined by comparing the d -spacing with Joint Committee on Powder Diffraction Standard (JCPDS) data files. Bulk compositions and surface morphologies of the targets and films were investigated by electron probe microanalysis (EPMA) using a CAMECA SX-100 and by energy-dispersive analysis of X-ray measurements (EDX) carried out by the use of a JEOL 6400 SEM apparatus. The depth profiling was done by Auger electron spectroscopy (AES) using a Perkin Elmer Physical Electronics model 590. An Ar ion beam was used for sputter etching. The transmittance as well as reflectivity measurements were carried out at room temperature using a "Becman-520" and "Specord-61NIR" spectrometers in the spectral range from 500 to 2500 nm. This allowed to determine the absorption coefficients and energy gaps of the films.

2. Results and discussion

X-ray diffraction measurements were performed to identify the structure and phases in the as-grown films. The diffraction spectra of the powder target materials were also recorded for comparison. Before the X-ray analysis, the crystals were powdered, pressed into a special holder and annealed in vacuum at 650 K for 2 h in order to remove the mechanical stresses. Fig. 1 shows diffractograms of AgIn_5S_8 crystals and thin films. The resolution of high-angle reflections shows that the crystals and thin films are single phase. No extra phases appeared, confirming the adequacy of our methods as regards the good phase quality of the synthesized materials. The X-ray powder diffraction patterns of crystals and film samples showed a set of lines due to the spinel structure ($O_7^7_Fd3m$ space group). The spectra demonstrate that the films always grew with a preferred $\langle 111 \rangle$ orientation. Based on the measured values of diffraction angles, the d -spacings for various planes of the reflection have been calculated. The lattice parameters of the elementary cell of AgIn_5S_8 compound calculated as lines for which $2\theta=60^\circ$ are: $a=10.025 \pm 0.002 \text{ \AA}$ for crystals and $a=10.027 \pm 0.005 \text{ \AA}$ for thin

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