

The library's e-resources: new technology bubbling under the hood

Dorette Snyman

Collection Developer: E-Resources

Library Technology Showcase, Sept 2012



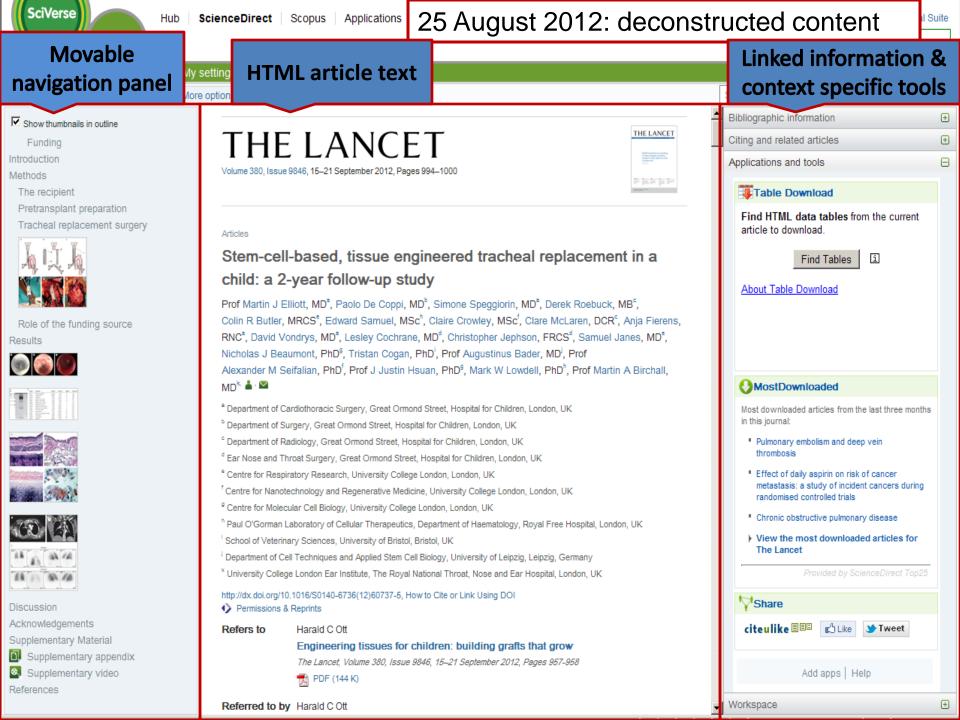
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The recipient

Pretransplant preparation

Tracheal replacement surgery

A L A

Role of the funding source Results

Results











Discussion

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Supplementary video

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Tracheal replacement surgery

During surgery, the head-down tilt position, cardiopulmonary bypass, and progressive cooling to 18°C were used. With the heart decompressed, a resternotomy was done. Use of right atrium and superior vena cava venous lines permitted cardiac isolation and great vessels were mobilised. At 18°C, the aorta was cross-clamped, anterograde cardioplegia was instilled, head vessels were snared, and the circulation was stopped. After dissection, the stent that was entering the aorta was identified, as were others buried in the tracheal wall (figure 1A). The aortic defect was repaired with bovine pericardium. Circulation was resumed and rewarming commenced.

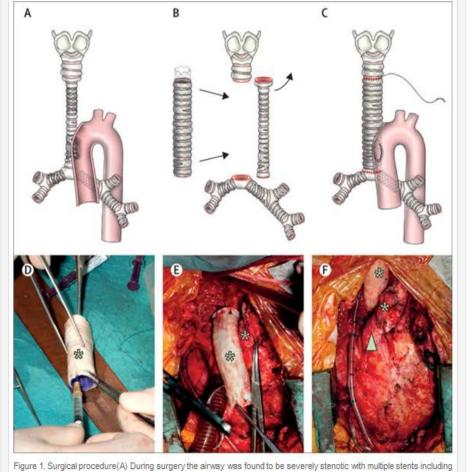
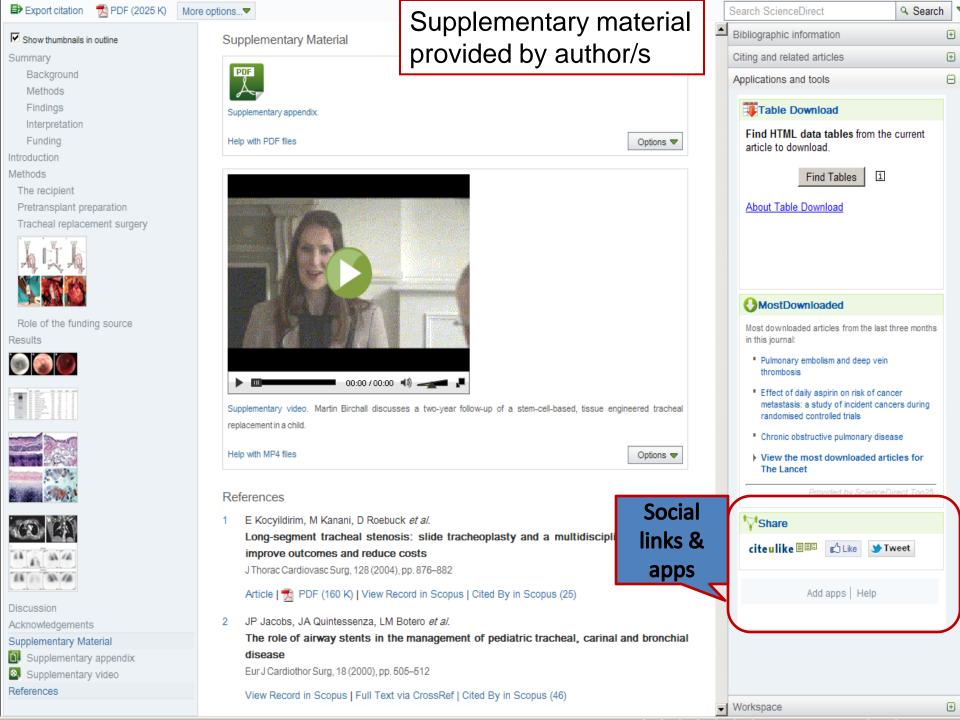


Figure 1. Surgical procedure (A) During surgery the airway was found to be severely stenotic with multiple stents including one entering the ascending aorta. (B and C) The old homograft trachea was removed and replaced by the engineered graft. (C) The aortic defect was closed with a bovine pericardial patch and air leaks sealed. (D) Transforming growth factor β was

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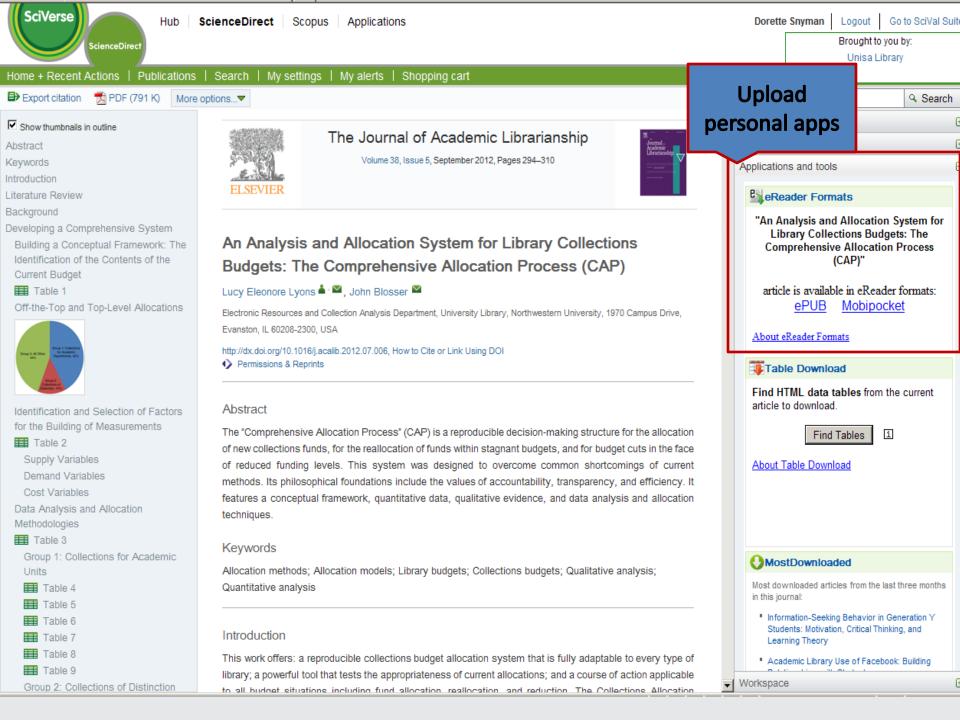
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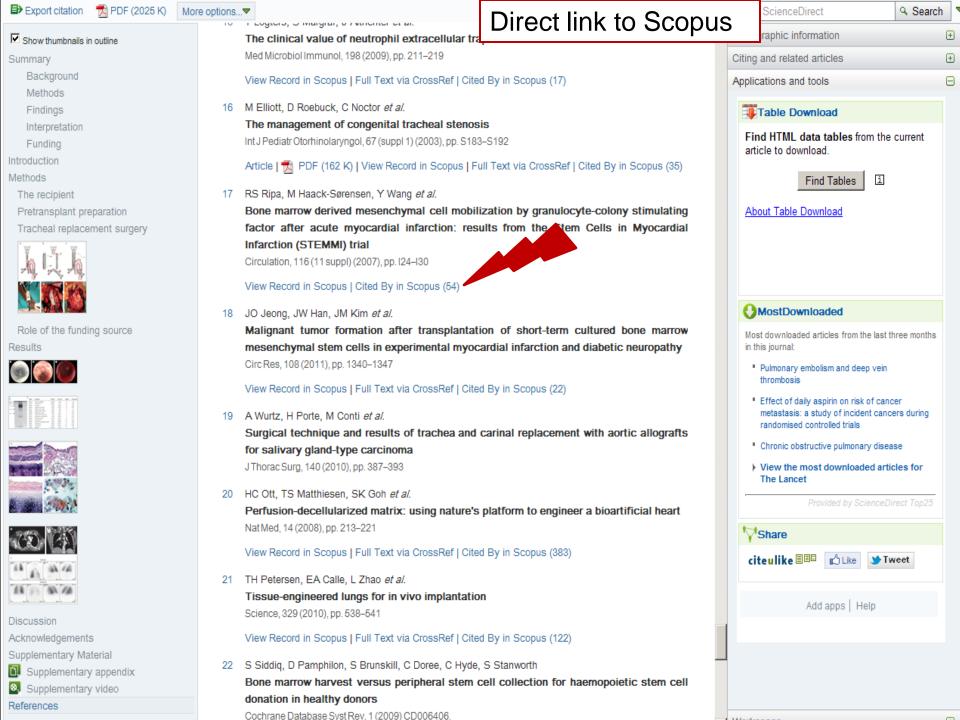
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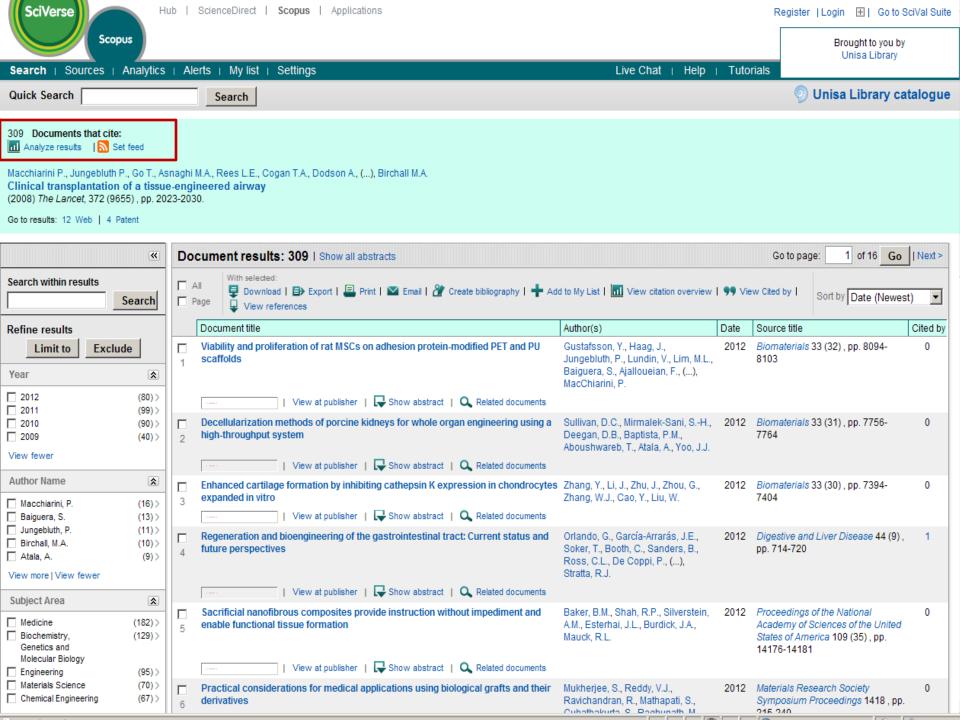
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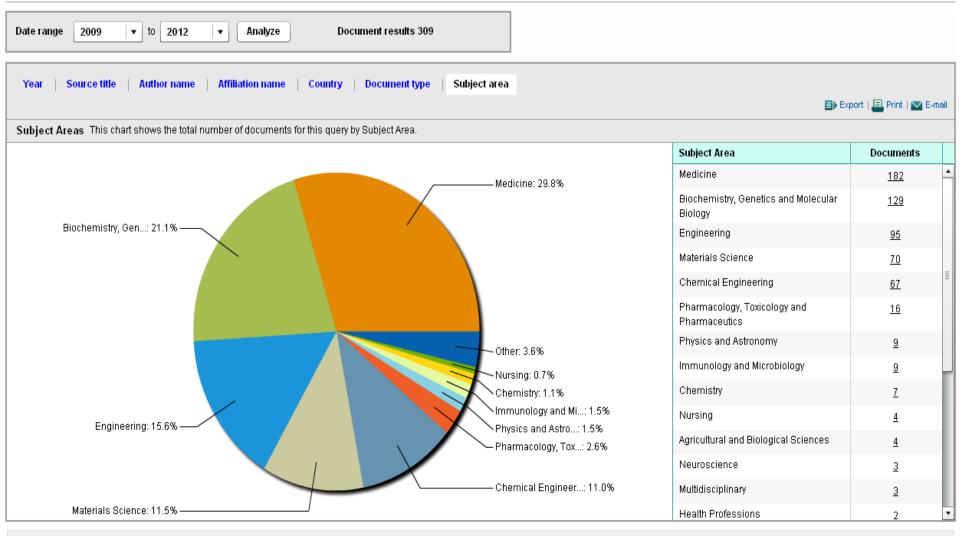






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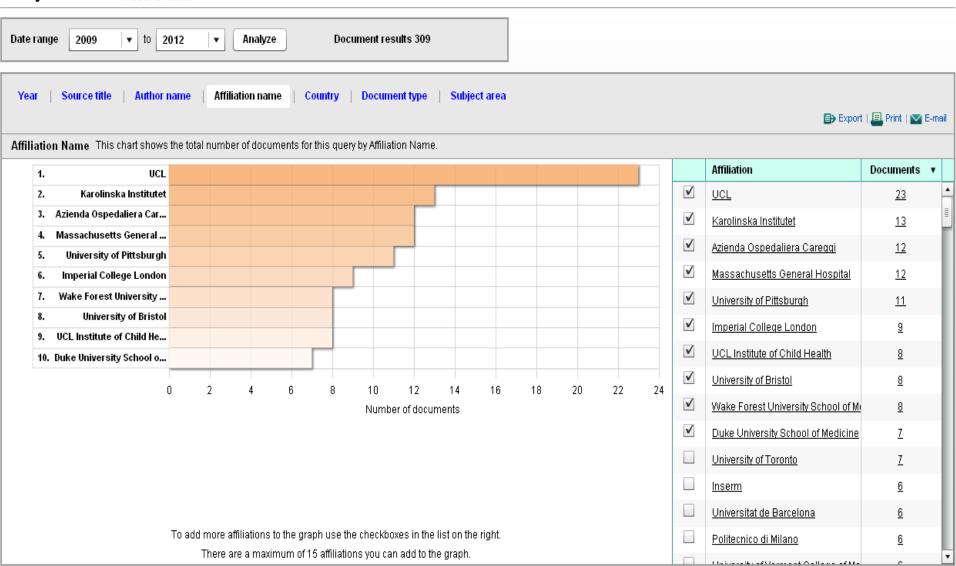
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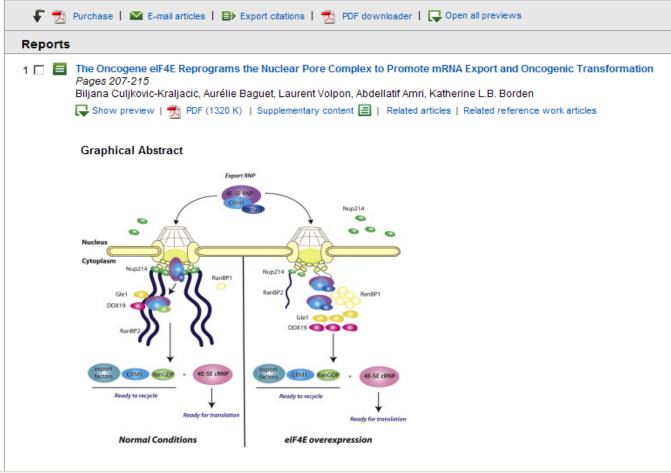
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Abstract

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Table 1

5. Conclusion

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Fmax, that obey the stochastic monotonicity constraint (3); the framework then gives the necessary and sufficient conditions that any 'interpolation scheme' between Fmin and Fmax has to satisfy in order to give rise to a supervised ranking algorithm satisfying the stochastic monotonicity constraint (3). Here, we give the definition of the minimal and maximal extensions F_{min} and F_{max} , and then state some propositions, which are in fact corollaries of the main theorem of [10], without proof.

Let (S,d) be a collection of learning examples, and let S_x be the image of S under the mapping which associates each object with its feature vector, i.e. $S_x = \{a | a \in S_k$. For each $x \in S_k$, let $\widehat{F}(\mathbf{x}, \cdot) : \mathcal{L} \to [0, 1]$ denote a CDF, that is estimated from the collection of learning examples. For the main theorem in [10], the way in which this estimation is done is immaterial, but for the propositions, we will assume that \hat{F} is in fact the maximum likelihood estimation \widehat{F}^* :

$$\widehat{F}^*(\mathbf{x},\ell) = \frac{|\{\langle \mathbf{y}, d(y) \rangle \in (\mathcal{S}, d) | \mathbf{y} = \mathbf{x} \wedge d(y) \leqslant_{\mathcal{L}} \ell\}|}{|\{\langle \mathbf{y}, d(y) \rangle \in (\mathcal{S}, d) | \mathbf{y} = \mathbf{x}\}|}.$$
(4)

The set $(\mathcal{S}_{\mathcal{X}},\widehat{F})$ is called the *stochastic training data set*. It is natural to say that the stochastic training data set $(\mathcal{S}_{\mathcal{X}}, F)$ is *monotone* – compare with the monotonicity constraint (3) – if for all elements \mathbf{x} and \mathbf{y} of S_r it holds that:

$$\mathbf{x} <_{\mathcal{X}} \mathbf{y} \Rightarrow \widehat{F}(\mathbf{x}, \cdot) \preceq_{\mathrm{FSD}} \widehat{F}(\mathbf{y}, \cdot).$$

Given a stochastic training data set (S_X, \widehat{F}) , we define the *minimal* and *maximal extension* as $F_{\min}: \mathcal{X} \times \mathcal{L} \rightarrow [0,1]$ (5)

$$(\mathbf{x},\ell) \mapsto \min \left\{ \widehat{F}(\mathbf{y},\ell) | \mathbf{y} \in \mathcal{S}_{\mathcal{X}} \land \mathbf{y} \leqslant_{\mathcal{X}} \mathbf{x} \right\}$$

framework begins with describing two particular CDFs, the so-

 $F_{\text{max}}: \mathcal{X} \times \mathcal{L} \rightarrow [0, 1]$ (6) $(\mathbf{x}, \ell) \mapsto \max \left\{ \widehat{F}(\mathbf{y}, \ell) | \mathbf{y} \in \mathcal{S}_{\mathcal{X}} \wedge \mathbf{y} \geqslant_{\mathcal{X}} \mathbf{x} \right\}.$

When {y∈S_N/y□_Nx}=Ø, the PMF f_{min} is defined as that PMF that assigns probability 1 to minL, this is the PMF that is dominated by all other PMFs over L. Analogously, when $\{y \in S_x \land y \square_x x\} = \emptyset$, the PMF f_{max} assigns probability 1 to maxL; f_{max} is then the PMF dominating all other PMFs.

One can easily prove some important properties of these minimal and maximal extensions, the first one being that for each element \mathbf{x} of X, $F_{min}(\mathbf{x}, \cdot)$: $L \rightarrow [0, 1]$ is indeed a CDF over L, and for all \mathbf{x} and \mathbf{y} of X one has that $x \leq_x y$ implies $F_{\min}(\mathbf{x}, \cdot) \preceq_{FSD} F_{\min}(\mathbf{y}, \cdot)$ (and likewise for F_{\max}). A second important property is that when the stochastic training data set $(\mathcal{S}_{\mathcal{X}}, F)$ is monotone, then it holds for any monotone extension \widetilde{F} of \widehat{F} from S_X to X that $F_{\min}(\mathbf{x},\cdot) \preceq_{FSD} \widehat{F}(\mathbf{x},\cdot) \preceq_{FSD} F_{\max}(\mathbf{x},\cdot)$, for each element \mathbf{x} of X. (Note that this also explains the names *minimal* and *maximal* extension.) Thirdly, when $(\mathcal{S}_{\mathcal{X}}, \vec{F})$ is not monotone, and when x and y, with x≤xy, do not satisfy the stochastic monotonicity constraint, i.e. (x, y) is a so-called couple of reversed preference, then for each z between x and y there exists at least one label ℓ of L such that F_{\min}

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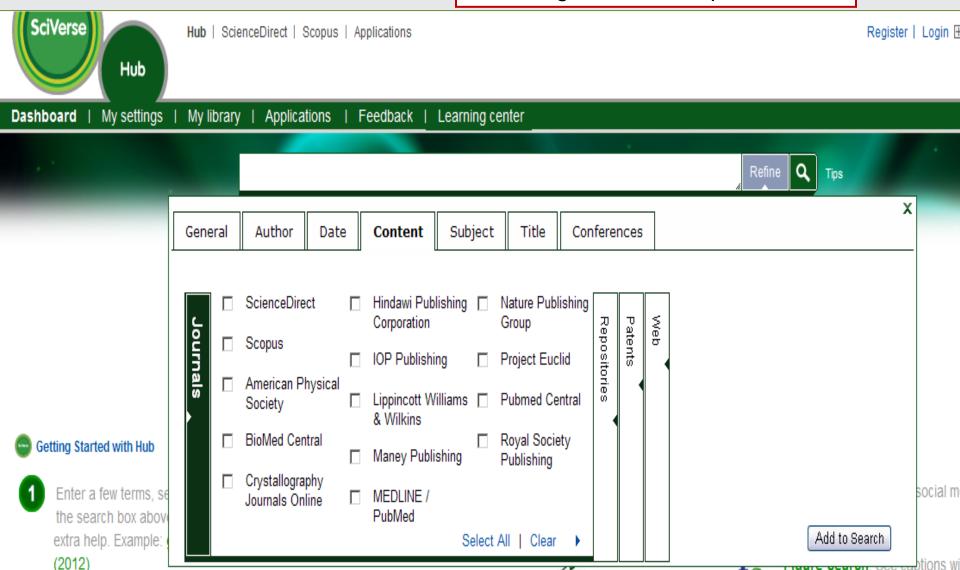
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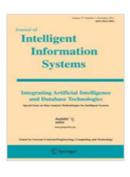


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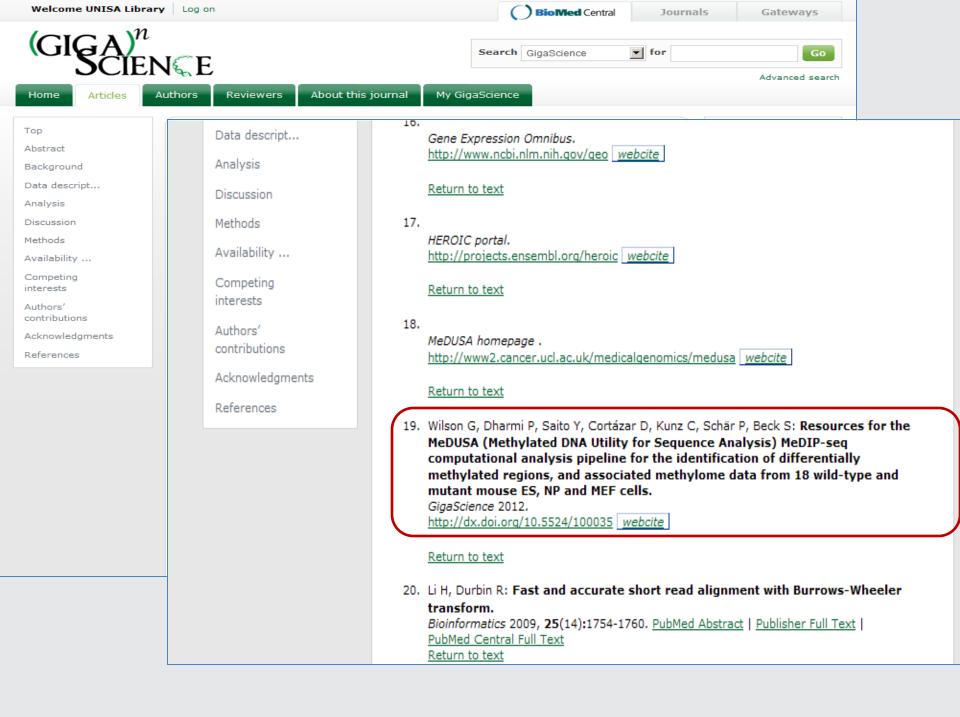
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genome assembly



Mouse methylomes

Here we present 18 genome-wide DNA methylation profiles of wild type and Thymine DNA glycosylase (*Tdg*) knockout cells, which serve as an excellent murine methylome resource. The 18 samples represent 6 biological cohorts: 6 samples were derived from mouse embryonic stem cells (3 *Tdg+/-*, 3 *Tdg-/-*), 6 samples were from mouse neural precursor cells (3 *Tdg+/-*, 3 *Tdg-/-*) and 6 samples were obtained from mouse embryonic fibroblasts (3 *Tdg+/-*, 3 *Tdg-/-*).

Next generation sequencing was performed on the libraries using an Illumina GAllx for each sample. Paired end alignment against the mouse genome (Build NCBIM37) was performed using BWA (v0.5.8), and filtering to remove those reads failing to map was performed using SAMtools (v0.1.9) and a custom perl script. The Bioconductor (v2.7) package MeDIPs (v1.0.0) was used to normalize for size of the sequence library, done by calculating reads per million in tiled windows across the genome. Fragment length normalization was performed using a custom perl script. Wig tracks representing library size normalized alignment were generated using a combination of MEDIPS and custom R scripts. In addition to the total alignment wig track, strand specific wig tracks were also generated, enabling the user to infer whether the MeDIP signal is derived by methylation on the forward and/or reverse strand.

The MeDIP-seq data were processed using the analysis pipeline MeDUSA (Methylated DNA Utility for Sequence Analysis). MeDUSA brings together numerous software packages to perform a full analysis of MeDIP-seq data, including sequence alignment, quality control, and determination and annotation of differentially methylated regions.

For more information see:

The Ensembl HEROIC portal, for wig tracks displaying normalized read depth: http://projects.ensembl.org/heroic/ or http://www2.cancer.ucl.ac.uk/medicalgenomics/tdg_web/trackList.php

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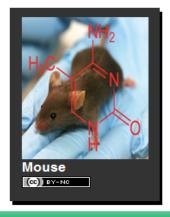
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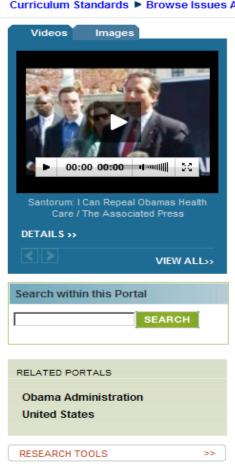




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U.S. Presidential Election 2012

OVERVIEW

The next U.S. presidential election will take place on 6 November 2012. The election process begins in February 2012 with the first state primary elections; these determine which candidates from the Democratic and Republican parties will face off against each other in the main election. Although President Barack Obama (1961-) will almost certainly be the Democratic candidate, no clear Republican front runner has yet emerged.

The 2012 election will be the first presidential election since the Supreme Court case Citizens United v. Federal Election Commission, decided in January 2010. In the Citizens United case, the court ruled that corporations could provide for unlimited funding of political broadcasts during election season. Previously, corporations and unions had been restricted from airing their own political ads before primary or general elections. Many critics argued that the ruling will give corporations an excessive amount of influence over the political process.

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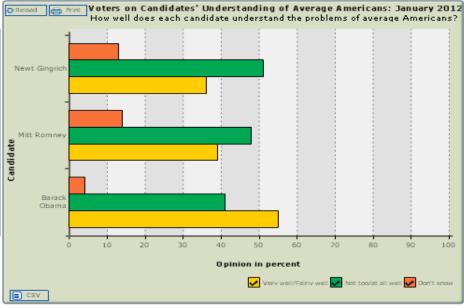
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A majority of the registered voters surveyed said they think Barack Obama understands the problems of average Americans very well or fairly well, compared to 39 percent for Mitt Romney and 36 percent for Newt Gingrich. (Pew Research Center For The People & The Press.)



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Education at a Glance 2012

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1. Education levels and student numbers

How many students study abroad and where do they go?

- More than 4.1 million tertiary-level students were enrolled outside their country of citizenship in 2010.
- Australia, Austria, Luxembourg, New Zealand, Switzerland and the United Kingdom have the highest percentages of international students among their tertiary students.
- Asians account for 52% of all students studying abroad worldwide. In absolute terms, the largest numbers of international students are from China, India and Korea.
- Some 77% of students worldwide who study abroad do so in OECD countries. This proportion has remained stable during the past decade.

Significance

This section looks at the extent to which students are studying abroad and their preferred destinations. Pursuing higher-level education in a foreign country allows students to expand their knowledge of other cultures and languages, and to better equip themselves in an increasingly globalised labour market. Beyond its social and educational effects, studying abroad has a considerable economic impact. The internationalisation of education is likely to have a growing impact on some countries' economy as a result of revenue from tuition fees and domestic consumption by international students.

Findings

OECD countries attract the bulk of students who study abroad worldwide - almost four out of five. Many of these come from other OECD countries, mainly Canada, France, Germany, Japan, Korea, Turkey and the United States. In terms of where students choose to study, the United Kingdom and the United States each receive more than 10% of all foreign students worldwide. Europe is the preferred destination for students studying outside their country, with 41% of all international students. North America has 21% of all international students. Nevertheless, the fastest growing regions of destination are Latin America and the Caribbean, Oceania, and Asia mirroring the internationalisation of universities in an increasing set of countries (see Chart C4.1 and Table C4.6 in Education at a Glance 2012).

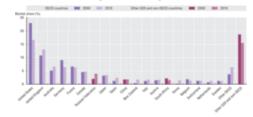
In a number of countries, especially in Australia and New Zealand, the large presence of international students has a significant impact on tertiary graduation rates (see Chart A3.1 in Education at a Glance 2012). If data from international students are excluded, Australia's graduation rate from university-level first degree programmes drops by 16 percentage points and New Zealand's by 7 percentage points.

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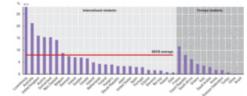


Figures

1.13 Trends in international education market shares (2000, 2010)



1.14 Student mobility in tertiary education, 2010





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→ Commodity		TOTAL : ALL COMMODITIES World					
	N Time	2007	2008	2009	2010	2011	
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→ Reporter Country	→ Flow						
Australia i	Imports	157 802 718 523.73	191 585 572 684.01	158 940 799 264.68	193 280 119 115.79	234 319 327 5	
	Exports	140 947 098 461.34	186 879 902 048.86	153 817 341 435.33	211 830 330 534.68	245 631 027 4	
Austria i	Imports	156 133 694 457.96	175 439 547 987.16	136 432 256 908.38	150 592 664 071.49		
	Exports	156 650 383 199.55	172 802 700 039.13	131 373 787 602.44	144 882 002 011.76		
Belgium i	Imports	413 576 345 445.44	470 708 875 493	351 781 036 345.61	390 090 986 004.89	465 215 948 080.	
	Exports	430 875 754 260.49	477 199 460 674.14	369 950 051 551.95	411 084 711 902.18	477 925 283 591.	
Canada i	Imports	380 646 621 996.75	408 757 194 375.99	321 227 633 466.9	392 108 702 461.12	450 387 797 490.	
	Exports	419 881 603 948.69	455 637 913 312.77	315 175 776 709.47	386 579 899 703.51	450 148 981 753.	
Chile i	Imports	42 432 484 254.46	59 953 702 734.48	41 062 533 191.41	56 220 807 814.94	74 907 074 7	
	Exports	65 955 772 238.23	65 664 083 396.96	53 592 172 262.41	69 368 998 021.5	81 411 129 3	
Czech Republic i	Imports	116 822 197 474	140 275 874 751	102 855 669 794	125 691 066 769	150 542 443 2	
	Exports	120 900 492 192	142 615 994 257	110 669 363 293	132 141 696 794	162 111 726 5	
Denmarki	Imports	97 323 485 559.56	109 157 752 982.86	81 926 299 698.94	84 468 277 345.97	97 831 339 7	
	Exports	101 954 122 552.35	116 068 540 617.01	92 843 930 760.01	96 811 609 238.24	112 783 919 0	
stonia i	Imports	16 665 984 184.7	17 334 620 511.5	11 359 986 311.66	13 182 462 724.25	18 780 326 6	
	Exports	11 739 845 258.71	13 703 857 642.46	10 445 840 388.82	12 823 043 888.76	18 158 301 8	
Finland i	Imports	81 757 444 786.26	92 159 163 377.96	60 863 994 219.07	68 765 130 863.06	83 861 659 370.	
	Exports	90 091 231 911.46	96 887 966 769.62	62 868 713 828.37	70 121 274 936.25	78 794 204 417.	
Francei	Imports	611 142 361 683.81	695 494 209 145.2	540 502 282 882.96	599 171 506 083.88	700 851 645 5	
	Exports	539 376 019 857.1	594 915 654 756.13	464 112 810 973.66	511 651 042 741	581 541 871 2	
Germany i	Imports	1 059 307 813 000	1 204 209 307 000	938 029 726 475.63	1 066 816 751 876.11	1 260 297 536 7	
zormany .	Exports	1 328 841 354 000	1 466 137 413 000	1 127 463 161 504.13	1 271 096 328 739.91	1 482 202 274 3	
Greece i	Imports	76 099 246 073.23	89 301 634 573.89	67 191 963 574.99	63 320 746 022.56	60 832 154 1	
3100001	Exports	23 504 156 356.28	25 509 362 327.57	20 052 540 681.77	21 559 731 204.43	31 711 069 8	
Hungary i	Imports	94 660 012 000	108 819 712 000	77 272 443 000	87 432 133 000	101 518 858 0	
rungar y 1	Exports	94 591 219 000	108 232 890 000	82 571 847 000	94 748 789 000	111 052 599 0	
celand i	-	6 704 725 961.55	6 165 928 277.46	3 603 988 708.94	3 920 529 473.33	4 845 760 2	
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!*	Exports	122 029 370 394.8	127 111 345 348.41	116 884 377 683.46	118 330 045 061.63	129 346 449 2	
sraeli	Imports	56 619 379 000	65 170 546 000	47 362 724 000	59 193 894 000	73 526 105 0	
L-L.•	Exports	54 091 395 000	61 337 490 000	47 934 614 000	58 413 028 000	67 796 328 0	
Italy i	Imports	511 859 586 237.16	553 222 805 599.85	414 722 682 551.71	486 648 433 209.32	557 497 423 514.	
	Exports	500 227 125 047.03	539 593 211 523.4	406 682 305 440.91	446 750 215 020.24	523 175 092 779.	
Japan i	Imports	622 243 336 429.73	762 533 921 120.32	551 980 630 910.88	694 059 159 975.19	854 626 360 8	

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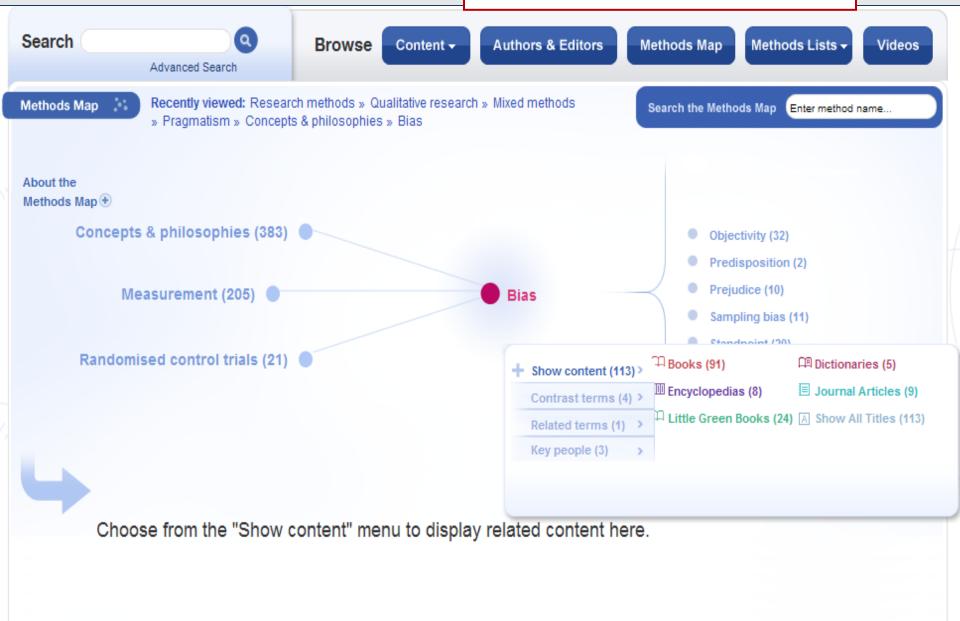
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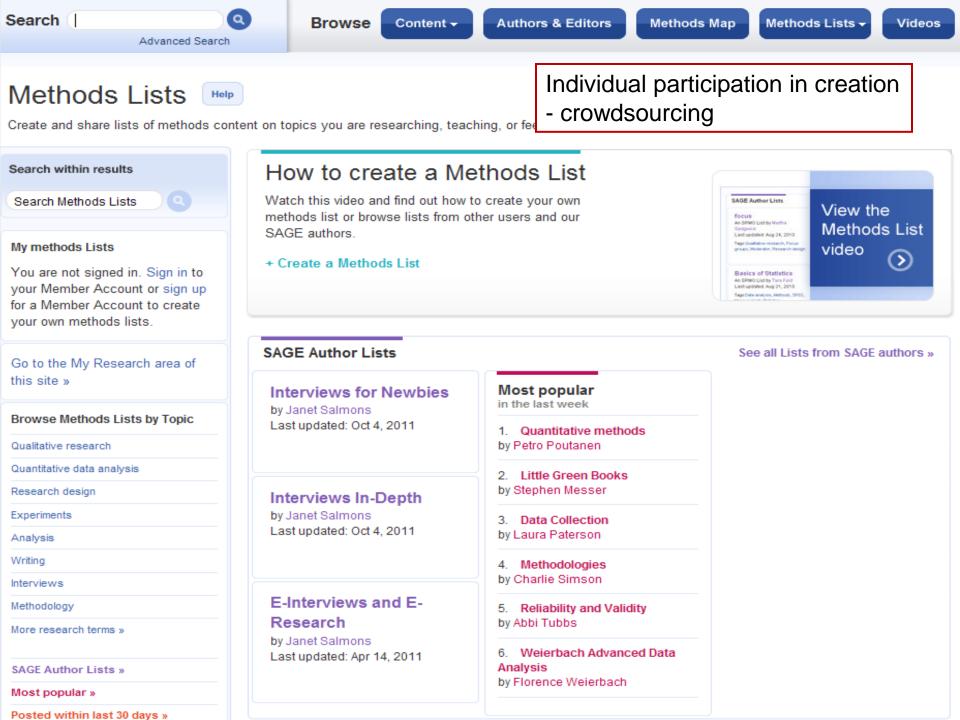
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