

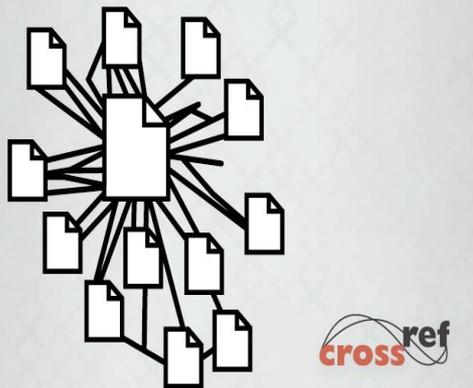
학술논문 글로벌 유통을 위한 DOI 및 오픈액세스 추진 방안

2011. 9. 19

서태설

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한국과학기술정보연구원



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 - DOI 추진 방법
 - KISTI의 DOI 사업 소개
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 - KISTI의 오픈액세스 사업 소개
- 결론

- 서론

서론: DOI와 오픈액세스의 개요

● 학술지의 급격한 전자화

- ◆ 전자 학술지의 끊임 없는 서비스 보장 방안 필요: DOI 등장
- ◆ 학술지 구독 가격으로 인한 접근제한 문제 대두: 오픈액세스(OA) 운동 확산

● DOI(Digital Object Identifier)

- ◆ 학술지 편집인이 개별 학술논문마다 고유 식별자를 부여하고 RA에 메타데이터를 기탁
- ◆ Registration Agency(RA)가 서비스 연속성 보장하는 시스템 운영

● OA(Open Access)

- ◆ 학술지 편집인이 학술지 오픈액세스 정책을 채택하고 개별 논문마다 CCL 부착
- ◆ 학술논문의 인터넷 접근이 가능하도록 Institutional Repository(IR)에 기탁

서론: DOI와 오픈액세스의 기회

● DOI(Digital Object Identifier)

◆ 인터넷 상의 참고문헌 링크를 통한 논문의 국제적 노출 기회 증대



● OA(Open Access)

◆ 인터넷을 통한 무제한적 접근을 통한 국제적 인용 기회 증대

- **DOI 활용 방안**
 - DOI 개요
 - DOI 추진 방법
 - KISTI의 DOI 사업 소개

DOI 활용 방안: 개요(DOI란?)

● DOI(Digital Object Identifier)

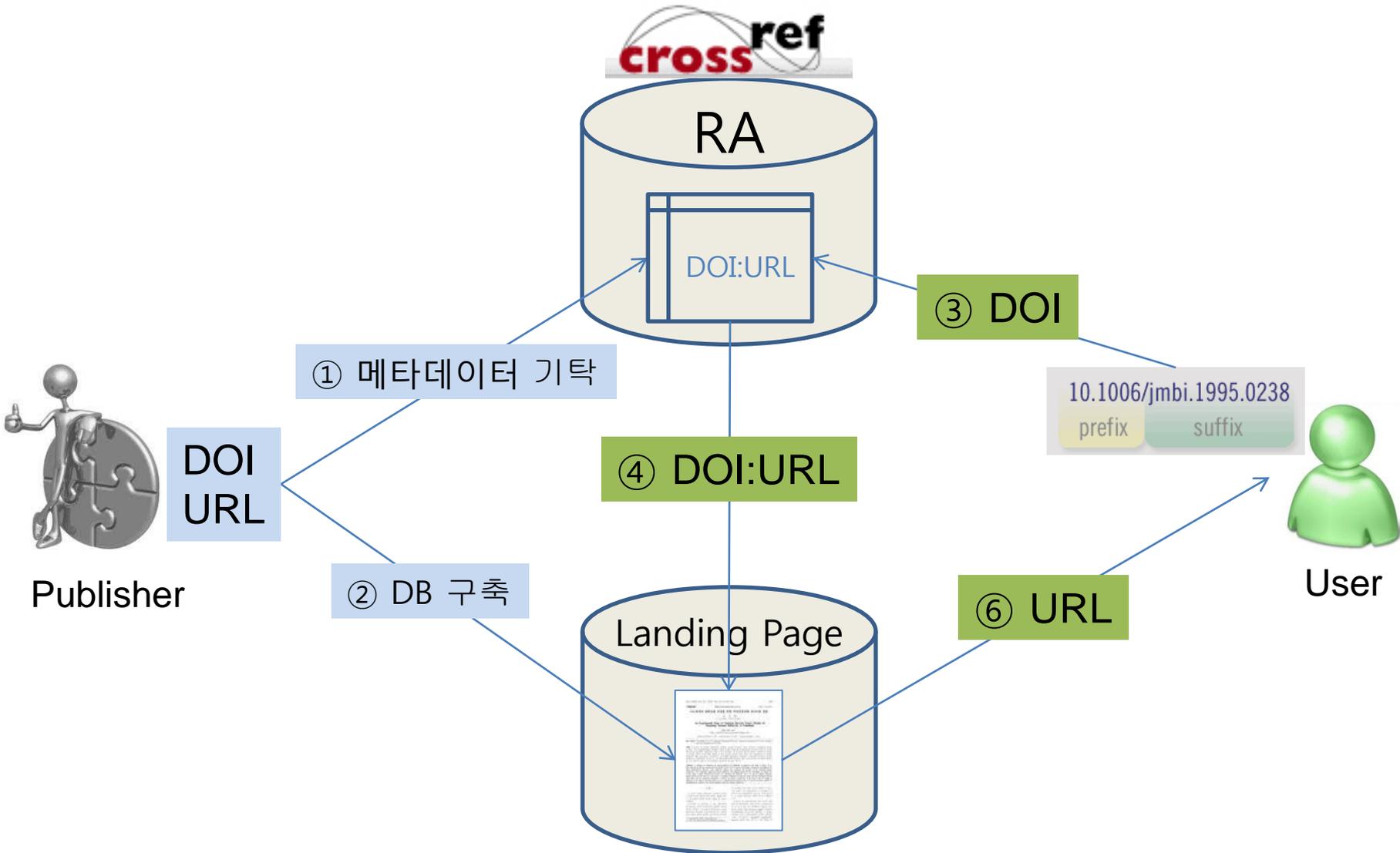
◆ 인터넷 상에서 유통되는 논문의 유일(unique) 식별자

사람	대상	논문
주민등록번호	식별자	DOI
집주소	위치	URL
행정자치부 (동사무소)	등록소	CrossRef (KISTI)

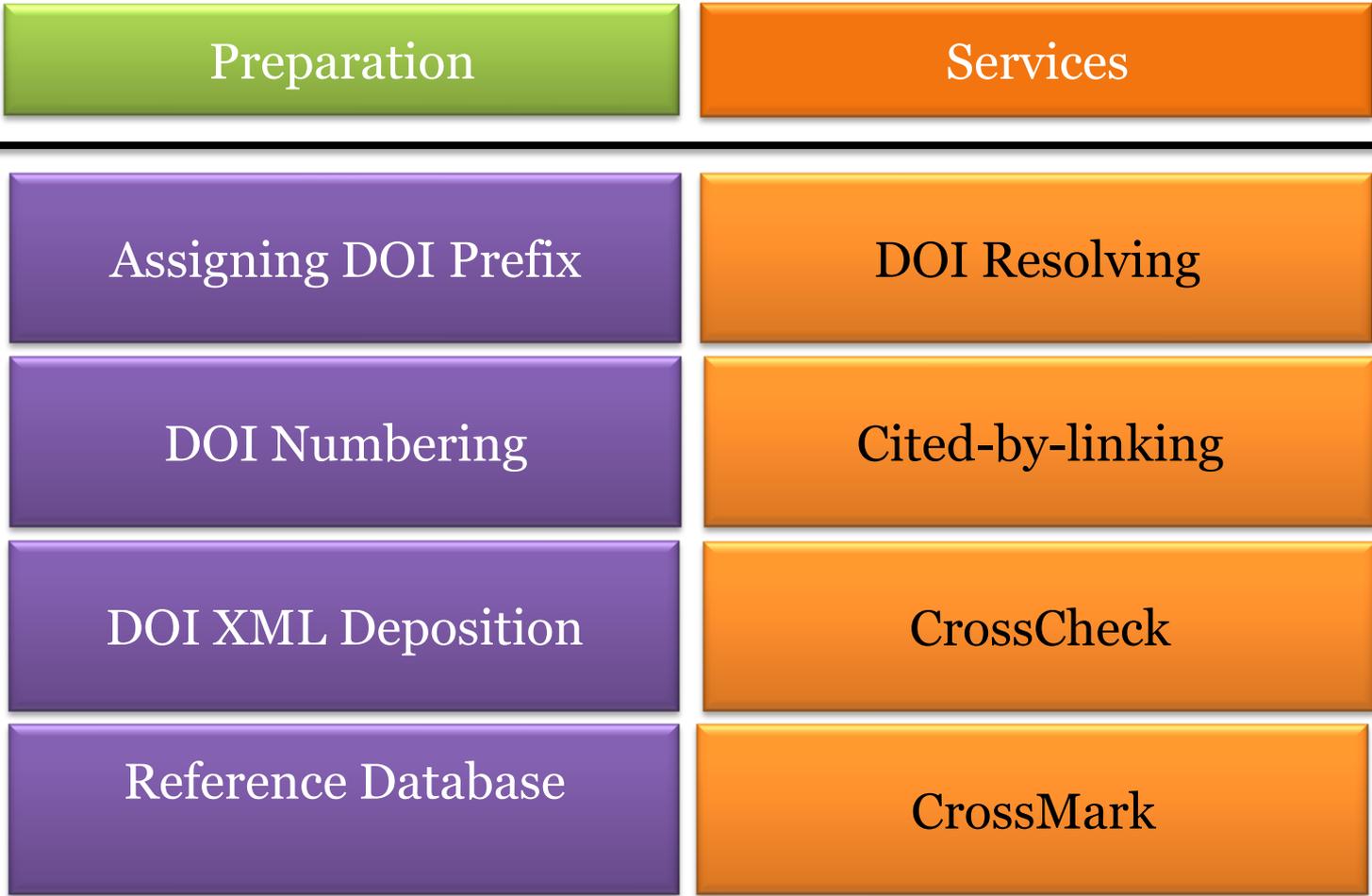
DOI 활용 방안: 개요(연혁)

- 1994 : 미국출판협회 (Association of American Publisher : AAP)에서 디지털자원의 저작권 보호를 위해 DOI 스펙 작성, CNRI (Corporation for National Research Initiatives)에 개발위탁
- 1997 : 프랑크프르트 도서 박람회에서 프로토타입을 선보임.
- 1998 : 미국출판협회가 IDF (International DOI Foundation)설립.
- 1999 : 과학,기술,의학분야의 출판사 대표들이 그 해 10월 프랑크프르트 도서 박람회에서 개발된 DOI-X에 대해 시연
- 2000.1 : Publishers International Linking Association, Inc. (PILA), 설립
- 2000.6 : 출판사간 논문데이터의 참조링크를 위해 CrossRef서비스 개시

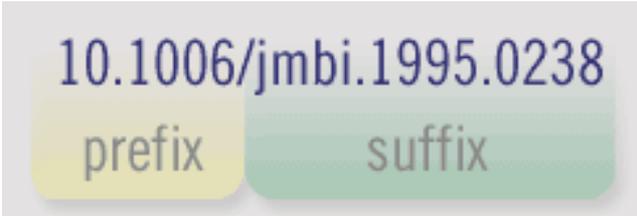
DOI 활용 방안: 개요(Business Model)



DOI 활용 방안: 개요(사업 수행과 서비스)



DOI 활용 방안: 개요(DOI Syntax)



- "Prefix" + "/" + "Suffix" 구조로 됨
- Prefix는 International DOI Foundation(IDF)에서 부여
- Suffix는 Publisher가 임의로 부여
- Prefix는 항상 10으로 시작하고 그 다음은 출판사 식별용 4자리 숫자로서 한 출판사가 여러개의 prefix 사용해도 됨
- Suffix는 같은 Prefix아래에서는 반드시 유일하게 부여되어야 하며, 매우 유연한 구문으로 구성되어 숫자와 문자를 혼용하거나 숫자만으로 구성되기도 하고 서지정보를 사용하기도 함
- Suffix는 하나의 묶음(node)으로 구성하기도 하고 복수의 묶음으로 구성하기도 하며, 단위 묶음의 딜리미터는 점(.) 콜론(:), 파이프(_) 등을 사용
- Suffix는 대소문자를 구별하지 않으며 확장전개가 가능하다.

10.3807/JOSK.2010.14.1.001	KISTI의 사례, 학술지 약자코드와 발간년, 권호, 기사시작페이지로 구성
10.1006/jmbi.1995.0238	Academic Press의 사례, 학술지에 대한 네자리 문자코드와 게재결정 일련번호
10.1063/1.125173	American Institute of Physics의 사례, 센터의 일련번호
10.1103/PhysRevLett.88.088302	American Physical Society의 사례, 학술지 약기명과 권호번호와 기사코드

DOI 활용 방안: 개요(XML Deposit & Landing Page)

<-- 등록자 이름, 이메일, 등록기관 -->

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      <surname>Shirakawa</surname>
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  </doi_data>
</journal_article>
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Journal of the Optical Society of Korea / v.12, no.4, 2008년, pp.262-268

DOI: 10.3807/JOSK.2008.12.4.262

Optical Design of A Compact Imaging Spectrometer for STSAT3

Lee, Jun-Ho  (Department of Optical Engineering, Kongju National University) Jang, Tae-Seong (Satellite Technology Research Center, KAIST) Yang, Ho-Soon (Korea Research Institute of Standards and Science) Rhee, Seung-Wu (Korea Aerospace Research Institute)

초록

A compact imaging spectrometer (COMIS) for use in the STSAT3 microsatellite is currently under development. It is scheduled to be launched into a low Sun-synchronous Earth orbit (~700km) by the end of 2010. COMIS was inspired by the success of CHRIS, which is a small hyperspectral imager developed for the ESA microsatellite PROBA. COMIS is designed to achieve nearly equivalent imaging capabilities of CHRIS in a smaller (65 mm diameter and 4.3 kg mass) and mechanically superior (in terms of alignment and robustness) package. Its main operational goal will be the imaging of Earth's surface and atmosphere with ground sampling distances of ~30m at the 18~62 spectral bands (4.0~1.05μm). This imaging will be used for environmental monitoring, such as the in-land water quality monitoring of Paldang Lake, which is located next to Seoul, South Korea. The optics of COMIS consists of two parts: imaging telescope and dispersing relay optics. The imaging telescope, which operates at an f-ratio of 4.6, forms an image (of Earth's surface or atmosphere) onto an intermediate image plane. The dispersing relay optics disperses the image and relay it onto a CCD plane. All COMIS lenses and mirrors are spherical and are made from fused silica exclusively. In addition, the optics is designed such that the optical axis of the dispersed image is parallel to the optical axis of the telescope. Previous efforts focused on manufacturing ease, alignment, assembly, testing, and improved robustness in space environments.

키워드

Imaging spectrometer; STSAT3; Space optics

CrossRef Cited-By Linking Search Results(4)

- Jong-Ung Lee. (2009) Journal of the Optical Society of Korea Analytic Design Procedure of Three-mirror Telescope Corrected for Spherical Aberration, Coma, Astigmatism, and Petzval Field Curvature 13(2),184 
- Hag-Yong Kihm. (2009) Journal of the Optical Society of Korea Athermal Elastomeric Lens Mount for Space Optics 13(2),201 
- Jun-Ho Lee. (2009) Journal of the Optical Society of Korea Optomechanical Design of a Compact Imaging Spectrometer for a Microsatellite STSAT3 13(2),193 
- Sung-Chan Park. (2009) Journal of the Optical Society of Korea Compact Zoom Lens Design for a 5x Mobile Camera Using Prism 13(2),206 

참고문헌 (8)

DOI 활용 방안: 개요(응용 서비스)

- ### Meetings & News
- Annual Meeting 2011
 - CrossMark
 - ORCID Announcement
 - CrossRef Webinars
 - CrossCheck Webinars
 - Best Practices for Books
 - New members
 - CrossRef Indicators

- ### Technical Resources
- CrossRef Help
 - CrossRef Support
 - CrossRef Labs
 - Report a DOI problem
 - DOI ownership transfer
 - Web deposit form
 - Simple Text Query
 - CrossRef query account
 - XML Tools
 - Browsable title list

- ### CrossRef Services
- CrossCheck
 - Cited-by Linking
 - CrossRef Metadata Services
 - Join CrossRef

DOI Resolver

If you encounter a DOI string (e.g., 10.1037/0003-066X.59.1.29) that is not hyperlinked, you can enter it in the box below:

TIP: You can turn a DOI string into a URL by appending the DOI string to <http://dx.doi.org/>

Want to look up a DOI? Visit our [Guest Query form](#).

CrossRef is an independent membership association, founded and directed by publishers. CrossRef's mandate is to connect users to primary research content, by enabling publishers to work collectively. CrossRef is also the official DOI® link registration agency for scholarly and professional publications. Our citation-linking network today covers tens of millions of articles and other content items from thousands of scholarly and professional publishers.



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46788680
registered CrossRef DOI links

millions of links

FEATURING...

CROSSREF BLOG
Latest Entries:
[CROSSREF INDICATORS](#)
08/13/11 4:38 pm

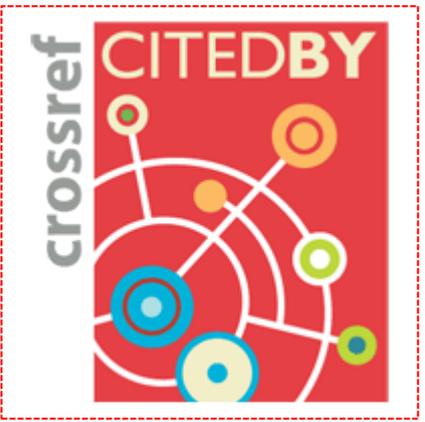
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Page 1/15

CROSSTECH BLOG
Discuss new publishing technologies.
Latest Entries:
[CONTENT NEGOTIATION FOR CROSSREF DOIS](#)
04/19/11 3:28 am

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Page 1/15



인용현황 확인



표절여부 확인



논문진본 확인

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DOI 활용 방안: 개요(Cited-by-linking service)

The screenshot shows a web browser displaying a journal article page. The browser address bar shows the URL: synapse.koreamed.org/search.php?where=aview&id=10.3352/jeehp.2008.5.3&code=0144JEEH. The page header includes the journal title "Journal of Educational Evaluation for Health Professions" and the website "www.jeehp.org".

The article title is "Students' Evaluation of a Team-based Course on Research and Publication Ethics: Attitude Change in Medical School Graduate Students" by Soo Young Kim. The article is published in "J Educ Eval Health Prof. 2008 Dec;5:3." with a DOI of 10.3352/jeehp.2008.5.3.

The article is distributed under the Creative Commons Attribution License. A red dashed box highlights the citation information:

- This article has been cited by 1 article in Synapse
- This article has been cited by 1 articles in KoMCI

The page also features a sidebar with logos for KoreaMed, KoMCI, KAMJE, and Crossref. The bottom of the page shows the "Abstract" section, which begins with: "In response to a growing need for students to appreciate ethical issues in medical research and publication, a brief team-based learning (TBL) course was presented to graduate students in the medical school of Hallym University in October and November 2007. To gather information as a basis for improving the course, questionnaires were distributed to 19 students and the feedback was evaluated. The questionnaire consisted of four categories: general course content (7 items), changes in

DOI 활용 방안: 개요(Multi-resolution service)

DOI Resolver

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Cholesterol, Statins, and Brain Function: A Hypothesis from a Molecular Perspective
Yeon-Kyun Shin
Interdisciplinary Bio Central (2009),1(1):1
doi:10.4051/ibc.2009.1.0002

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Cholesterol, Statins, and Brain Function: A Hypothesis from a Molecular Perspective   

Shin, Yeon-Kyun

Abstract There is evidence that cholesterol in the brain plays an important role in the neurotransmitter release. A decrease of the cholesterol level severely hampers the activity of the membrane fusion machinery, thereby inhibiting the release. Meanwhile, the results from several clinical studies suggest that a low cholesterol level is linked to the dysfunction of some brain activities. Because the neurotransmitter release underlies the basic brain function, the combined results lead to a testable hypothesis that the cholesterol-lowering drugs may inhibit the neurotransmitter release at the synapse. Such inhibition of the release could result in impaired brain function for a limited group of people. A molecular basis for the hypothesis is discussed.

Keywords Neurotransmitter release; SNARE; membrane fusion; synapse; raft

Language English

References (12) :

- Biswas, Subrata;Yin, Shu Rong;Blank, Paul S.;Zimmerberg, Joshua
Cholesterol Promotes Hemifusion and Pore Widening in Membrane Fusion Induced by Influenza Hemagglutinin
The Journal of General Physiology, 131(5) : 503-513, 2008
 
- Bjorkhem, Ingemar;Andersson, Ulla;Ellis, Ewa;Alvelius, Gunvor;Ellegard, Lars;Diczfalusy, Ulf;Sjovall, Jan;Einarsson, Gu...
From
huma
J. Bio


IBC > Journal Article

Journal Article Synopsis

IBC 2009, vol. 1, no. 1, article no. 2, pp. 1-3 | doi: 10.4051/ibc.2009.1.0002 | view 884 | download 271 | rating 7.0 | comment 3

Invited article Hypothesis/Idea (Pharmaceutical bioscience and technology) Open Access, Open Review

Cholesterol, Statins, and Brain Function: A Hypothesis from a Molecular Perspective

Yeon-Kyun Shin^{1*}

¹Integrative Bioscience and Biotechnology, POSTECH, Pohang, Korea 790-784, and Department of Biochemistry, Biophysics, and Molecular Biology, Iowa State University, Ames, IA 50014

*Corresponding author

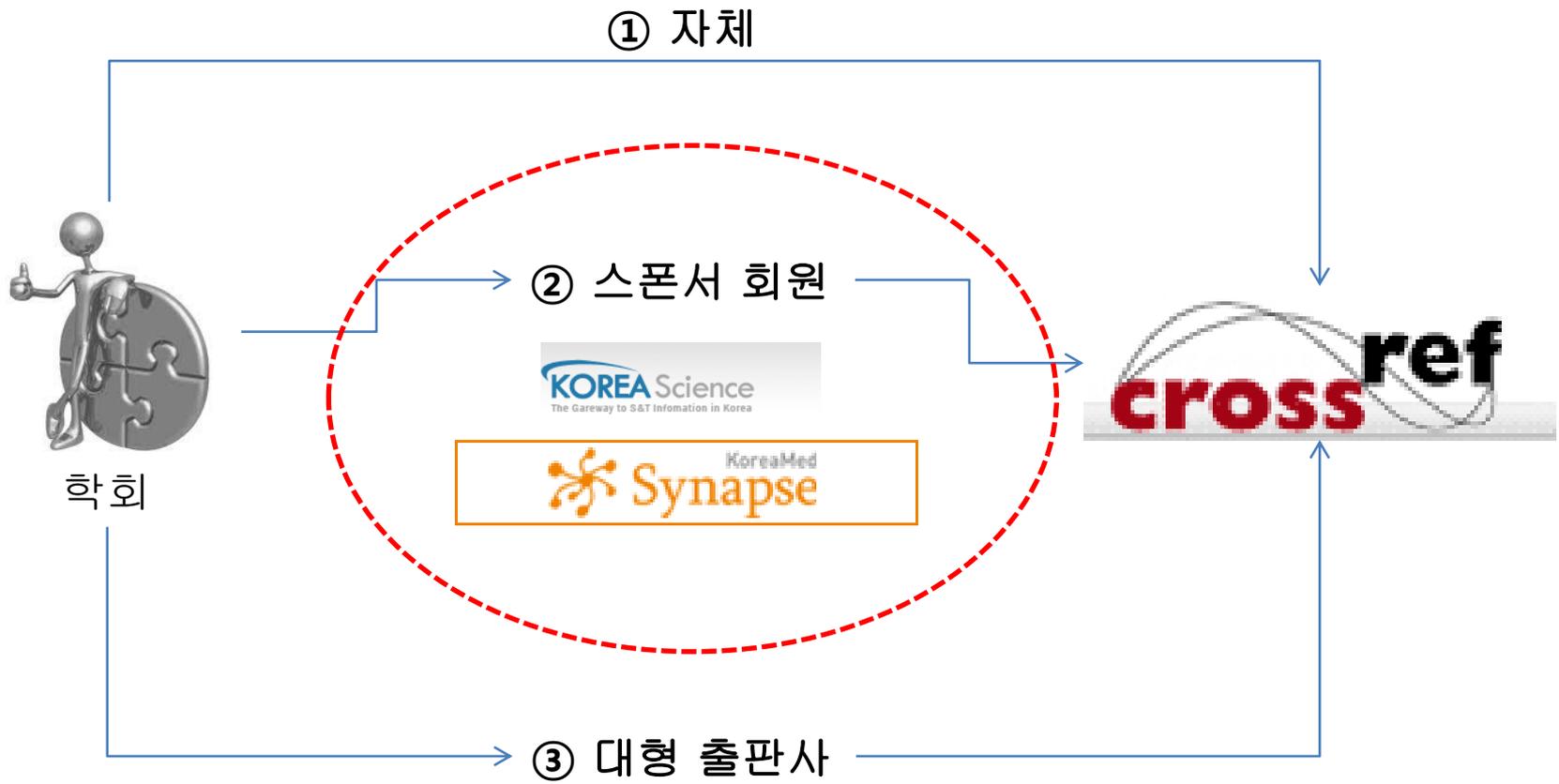
received: March 23, 2009; accepted: March 26, 2009

Synopsis

There is evidence that cholesterol in the brain plays an important role in the neurotransmitter release. A decrease of the cholesterol level severely hampers the activity of the membrane fusion machinery, thereby inhibiting the release. Meanwhile, the results from several clinical studies suggest that a low cholesterol level is linked to the dysfunction of some brain activities. Because the neurotransmitter release underlies the basic brain function, the combined results lead to a testable hypothesis that the cholesterol-lowering drugs may inhibit the neurotransmitter release at the synapse. Such inhibition of the release could result in impaired brain function for a limited group of people. A molecular basis for the hypothesis is discussed.

Keyword: Neurotransmitter release, SNARE, membrane fusion, synapse, raft

DOI 활용 방안: 추진 방법



DOI 활용 방안: 추진 방법(비용)

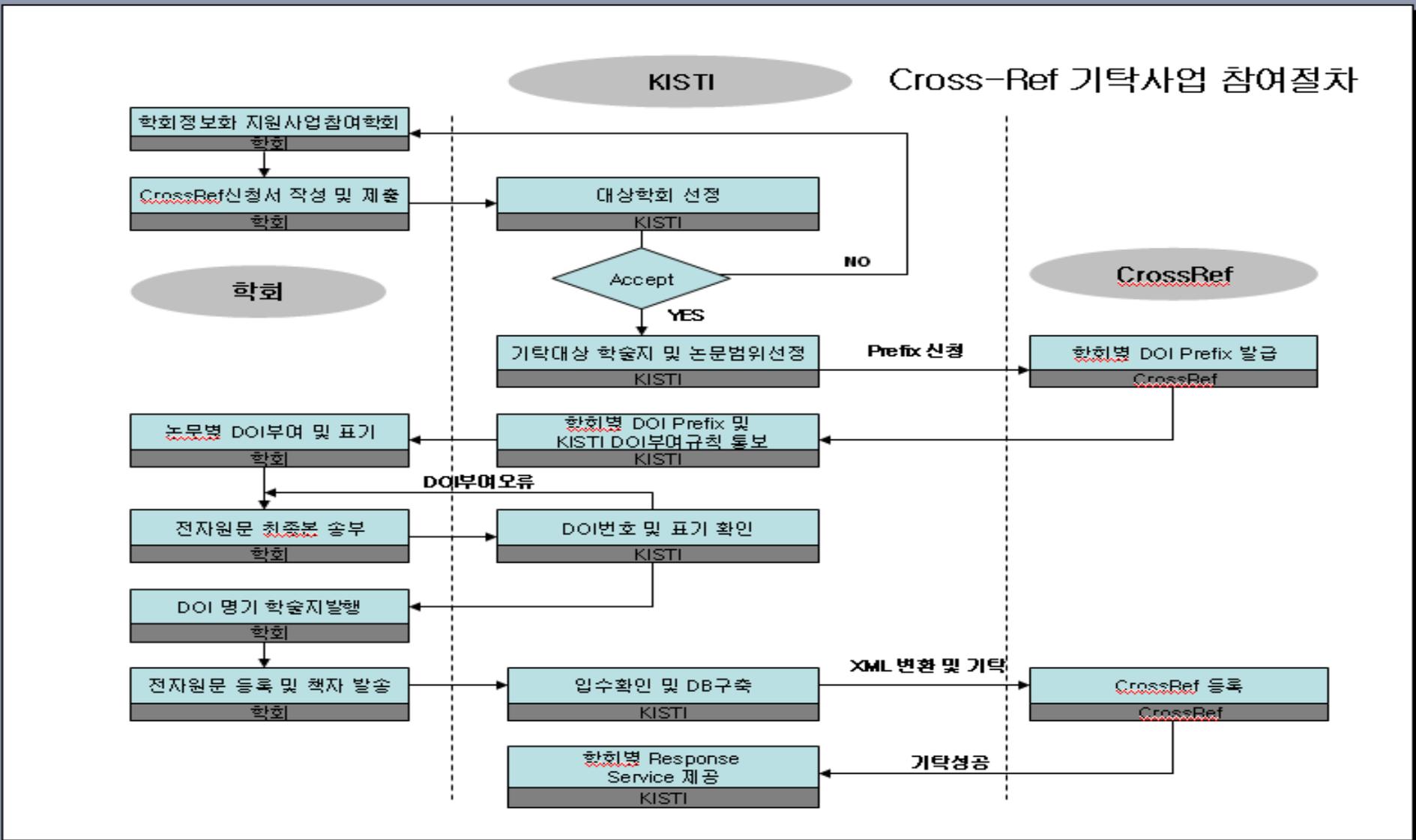
● DOI 서비스 요금

기본 요금	금액	비고
Member's Annual Fee	\$275	Total Publishing Revenue < \$1million
Deposit Fee per DOI	\$1	Journal Paper
DOI Conflict Penalty Fee	\$2	

● DOI 기탁 및 Landing page 구축 비용

비용 종류	금액	비고
DOI XML 작성	5만원	DOI + URL + metadata
Landing Page 구축	?백만원	References + pdf full-text

DOI 활용 방안: 추진 방법(KISTI를 통하는 방법)



DOI 활용 방안: KISTI의 DOI 사업 소개

연혁

Dec. 2007	The first DOI assignment was performed as a sponsoring member representing scholarly societies in Korea.
Jan. 2008	KoreaScience was opened to be a DOI response page for Korean S&T journals.
March, 2008	The first deposition of DOI XML was successfully performed.
June, 2009	Cited-by-linking sign-up & Multiple resolution services were started.
Dec. 2009	42 S&T journals from 30 academic societies are applied to be DOI journals.
May 2010	Sign-up of CrossCheck , a plagiarism screening system
Dec. 2010	92 S&T journals from 68 academic societies are applied to be DOI journals.

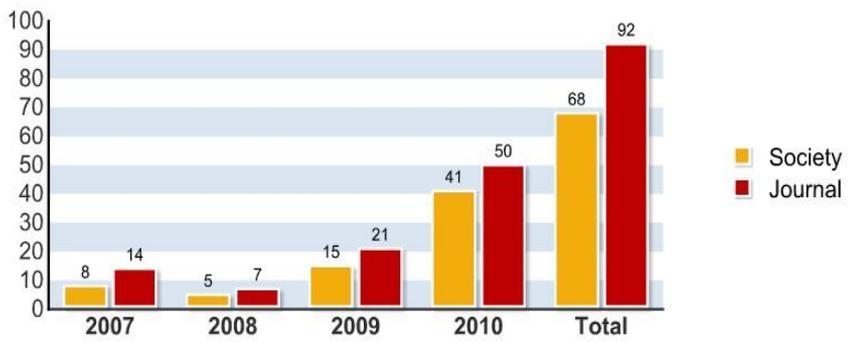
DOI 활용 방안: KISTI의 DOI 사업 소개

● 사업 실적

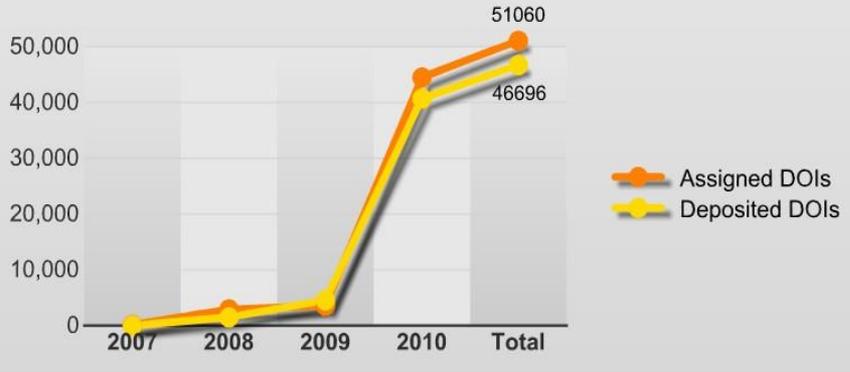
- No. DOI Journals: 92
- No. DOI XML deposition: 46,696

Year	Society	Journal	Assigned DOIs	Deposited DOIs
2007	8	14	106	0
2008	5	7	2,920	1,480
2009	15	21	3,556	4,537
2010	41	50	44,478	40,679
Total	68	92	51,060	46,696

CrossRef Society & Journal



Assigned DOIs & Deposited DOIs



DOI 활용 방안: KISTI의 DOI 사업 소개

● 사업 효과

• 지속적인 인용 증가
 • 자기인용 외에 실질적인
 인용 증가 중

2010년 02월
 -1회이상 인용논문 총 471개
 -1논문 최다인용회수 8회



2009년 11월
 -1회이상 인용논문 총 257개
 -1논문 최다인용회수 6회

1	DOI	LINK수
2	10.3807/JOSK.2008.12.4.275	8
3	10.3807/JOSK.2008.12.1.025	6
4	10.3807/JOSK.2008.12.4.269	6
5	10.3807/JOSK.2008.12.4.281	6
6	10.4134/JKMS.2007.44.6.1479	6
7	10.3807/JOSK.2008.12.1.038	5
8	10.3807/JOSK.2008.12.2.98	5
9	10.3807/JOSK.2008.12.3.131	5
10	10.3807/JOSK.2008.12.4.262	5
11	10.3740/MRSK.2008.18.10.529	4
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13	10.3807/JOSK.1999.3.2.055	4
14	10.3807/JOSK.2002.6.3.059	4
15	10.3807/JOSK.2003.7.4.245	4
16	10.3807/JOSK.2007.11.2.067	4
17	10.4134/BKMS.2007.44.1.131	4
18	10.4134/JKMS.2008.45.4.923	4
19	10.3740/MRSK.2008.18.12.655	3
20	10.3740/MRSK.2008.18.7.367	3
21	10.3741/JKWRA.2008.41.9.895	3
22	10.3745/KIPSTC.2008.15-C.5.419	3
23	10.3795/KSME-A.2008.32.1.021	3
24	10.3807/JOSK.2000.4.1.001	3
25	10.3807/JOSK.2003.7.4.240	3
26	10.3807/JOSK.2007.11.1.018	3
27	10.3807/JOSK.2007.11.3.138	3
28	10.3807/JOSK.2008.12.1.019	3
29	10.3807/JOSK.2008.12.2.079	3
30	10.3807/JOSK.2008.12.3.157	3
31	10.3807/JOSK.2008.12.3.178	3
32	10.3807/JOSK.2008.12.4.232	3
33	10.3807/JOSK.2008.12.4.244	3
34	10.3807/JOSK.2008.12.4.314	3
35	10.3807/JOSK.2009.13.1.053	3
36	10.4062/biomolther.2007.15.3.175	3
37	10.4062/biomolther.2009.17.1.17	3
38	10.4217/OPR.2007.29.2.135	3

- **오픈액세스 추진 방안**
 - 오픈액세스 개요
 - 오픈액세스 추진 방법
 - KISTI의 오픈액세스 사업 소개

오픈액세스 추진 방안: 개요(오픈액세스란?)

● OA(Open Access)

◆ 저작물을 인터넷 상에서 누구든지 자유롭게 접근하도록 하자는 개념

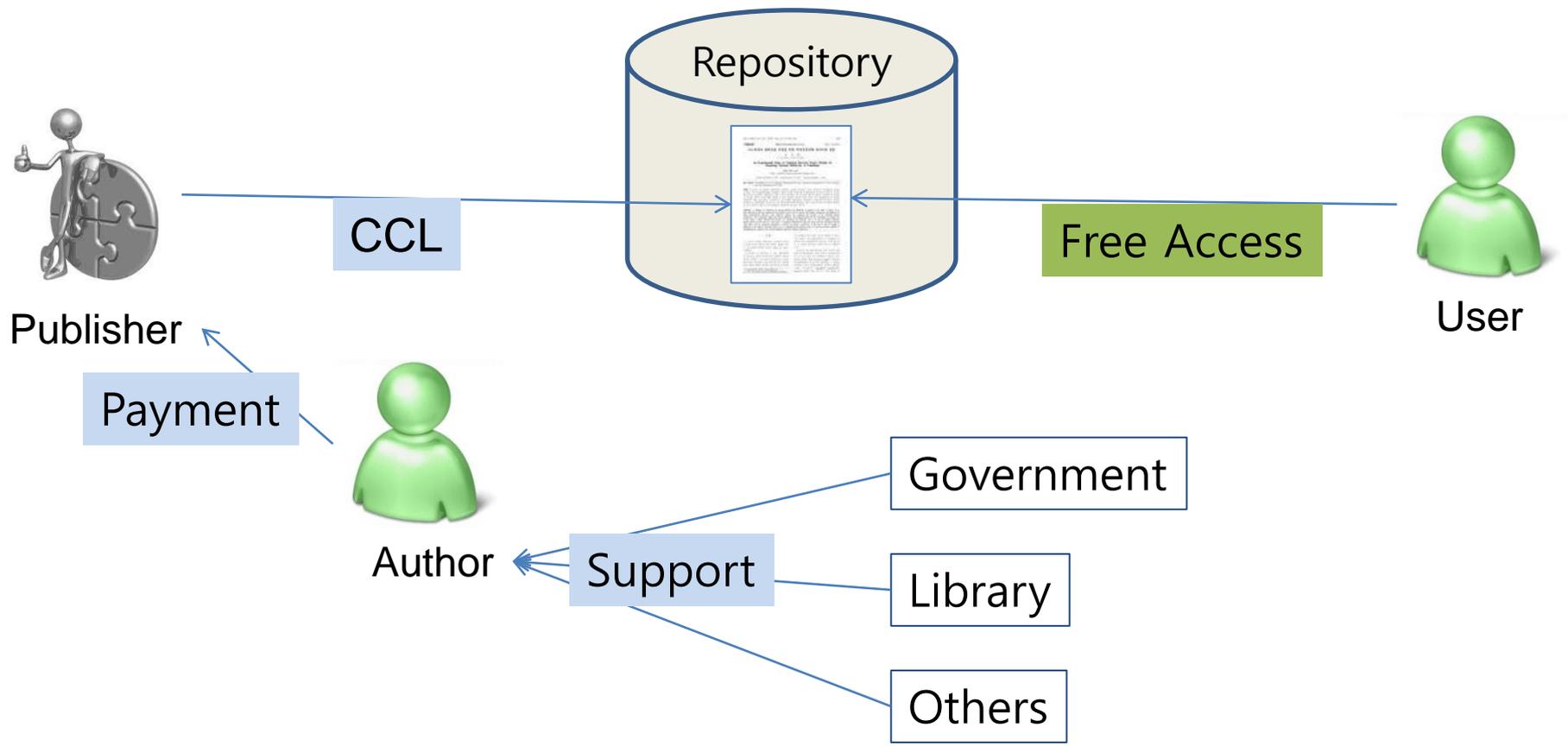
2002년 2월 Budapest Open Access Initiative(BOAI), 2003년 6월 Bethesda Statement on Open Access Publishing, 2003년 10월 Berlin Declaration on Open Access to Knowledge in the Science and Humanities 등의 세 개의 선언에 근거하여 시작되었다.

학술지의 오픈액세스란?

학술논문을 경제적, 법적, 기술적 제한 없이 자유롭게 읽고, 내려받고, 복제, 배포, 인쇄, 링크하고, 무료로 온라인에서 이용할 수 있는 것을 의미한다.

이용자가 학술지에 무료로 접근하도록 하는 대신 출판사나 저자가 논문의 발간 및 유통에 들어가는 비용을 지불하도록 한다.

오픈액세스 추진 방안: 개요(Business Model)



오픈액세스 추진 방안: 개요(FA와 OA의 차이)

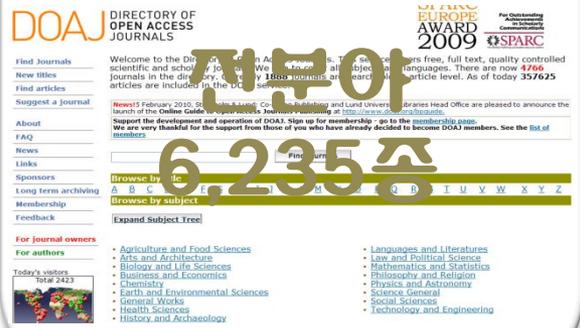
무료(free access) 학술지는 그 학술지 내용 중 한 문단 이상 인용하거나, 표나 그림을 인용할 때 일일이 발행인의 허락을 받아야 하나,

오픈액세스를 선언한 OA 학술지는 단지 어디가 원천(source)이라고 기술하면 충분하다. 다만, 상업적인 목적 이용을 허락하지 않는 경우 상업목적 출간을 위해서는 발행인의 허락을 받아야 한다.

오픈액세스 추진 방안: 개요(사례)

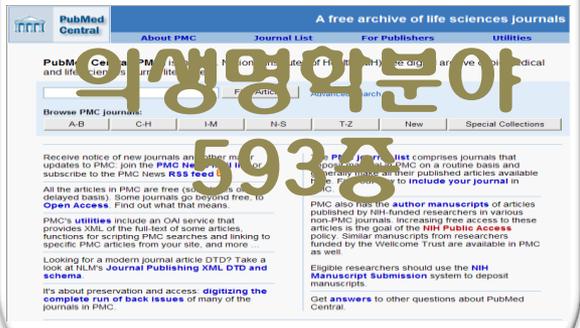
■ 오픈액세스저널 확산 추세

- ❖ 전세계 6,235종의 오픈액세스저널 등록 (2011년 3월 DOAJ 기준)
 - 2,661종의 저널과 516,536건의 학술논문의 통합 검색서비스
 - 비영리권 오픈액세스저널 비율 증가
- ❖ 한국의 경우
 - 2011년 3월 기준, 31종
 - 세계 랭킹 35위



■ PubMedCentral

- ❖ 2007년 NIH Public Access Policy 기반 / NIH 내 NCBI에서 운영
- ❖ 1,209종의 의생명학분야 무료 및 오픈액세스저널 등록 (2011년 3월 PMC 기준)
 - 593종 : 오픈액세스(174종 : 부분 오픈액세스 / 442종 : 무료액세스)
- ❖ 한국의 경우
 - 2010년 11월 기준, 38종(의편엽)



■ PLoS

- ❖ 2000년 '과학 및 의학분야 과학자 연합' 조직 기반
- ❖ Public Library of Science에서 7종의 오픈액세스저널 발행
 - 출판되는 오픈액세스저널에 대한 비영리적 목적뿐만 아니라, 영리적 목적으로 이용 권장
- ❖ 학술논문 대여서비스 모델 등장
 - DeepDyve사는 PLoS 의 논문을 이용한 New 비즈니스 모델 개발



오픈액세스 추진 방안: 추진 방법(CCL 표기)

Verso 페이지

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This paper meets the requirements of KS X ISO 9706, ISO 9706-1994 and ANSI/NISO Z39.48-1992 (Permanence of paper)

개별 논문

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INTRODUCTION

Vaccinations are one of the most morbidities and mortality associated with infectious diseases. The introduction of the vaccine has led to nearly a 90-100 percent reduction in target disease morbidity and mortality (1, 2). In Korea, bacille Calmette-Guérin vaccine (BCG), hepatitis B, DTaP (diphtheria/tetanus/pertussis), MMR (measles/mumps/rubella), polio, Japanese B encephalitis (JBE), and varicella are recommended for children by the National Immunization Program (NIP).

The vaccination coverage rate can be estimated by population-

Korea does not regularly conduct nationwide vaccination coverage surveys and the 'Immunization Registry' system needs improvement due to insufficient completeness.

Population surveys include mail, telephone, face to face interview or web-based method, and different survey modes may yield substantially different results (4, 5). Therefore, selecting appropriate methods tailored for different countries is important. Therefore, in this study, we conducted two nationwide surveys for vaccination coverage and compared the two survey meth-

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오픈액세스 추진 방안: 추진 방법(Repository)



<http://synapse.koreamed.org/>



<http://www.koreascience.or.kr/>



오픈액세스 추진 방안: KISTI의 오픈액세스 사업 소개

XML Full Text 원문 구축

2010년 구축 저널 목록(9종)

번호	학회명	기관지명(영문)
1	한국조류학회	ALGAE
2	대한환경공학회	Environmental Engineering Research
3	한국전기전자재료학회	Transactions on Electrical and Electronic Materials
4	한국생태학회	Journal of Ecology and Field Biology
5	한국우주과학회	Journal of Astronomy and Space Sciences
6	한국항공우주학회	International Journal of Aeronautical and Space Sciences
7	한국과학기술정보연구원	정보관리연구
8	대한약침학회	대한약침학회지
9	한국광학회	Journal of the Optical Society of Korea

OAK 웹사이트(저널 브라우즈)

The screenshot shows the OAK website interface. At the top, there's a navigation bar with '통합검색', '저널 브라우즈', and '자료지터라 브라우즈'. Below that, a green banner indicates that OAK provides XML for 9 domestic journals. The main content area displays a list of journals, each with a thumbnail, title, ISSN, volume/year, subject, and article count. To the right of each journal entry, there are links for '편집인 정보' (Editor Information) and a list of editors with their affiliations.

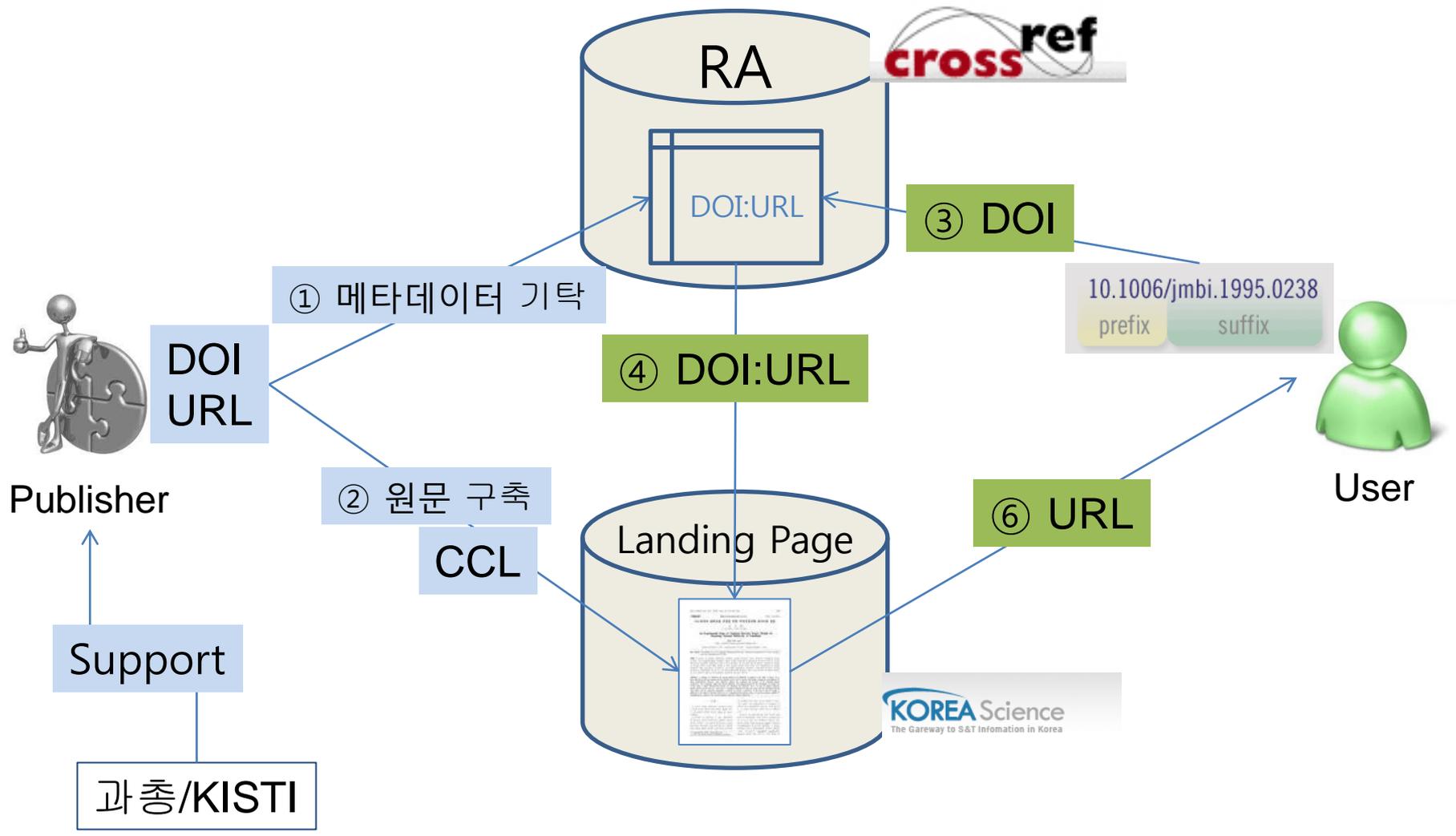
저널명	ISSN	수확방위	주제	분야	아티클	주편집인	편집인
ALGAE	1226-2617	2009-2010	공학	자연과학	242	Kwang Young Kim (kykim@chonnam.ac.kr) Chonnam National University, Korea	Mi Suk Hwang (mishwang@mri.doi.go.kr) National Fisheries Research and Development Instt Eun Kyung Hwang (ekhwang@nrdi.go.kr) National Fisheries Research and Development Instt
Environmental Engineering Research	1226-1025	2009-2010	공학	공학	492	Dongil Seo Changnam National University, Korea	Jihyang Kwon Konkuk University, Korea Jaewoo Park Hanyang University, Korea
International Journal of Aeronautical and Space Sciences	1229-9626	2010-2010	공학	공학	132	Min-Jea Tahk Korea Advanced Institute of Science and Technology	Oh Joon Kwon Korea Advanced Institute of Science and Technology
The Korean Space Science Society	1225-9524	2010-2010	공학	자연과학	292	Yong-Ho Park Yonsei University, Seoul Korea	Peter J. Chi UCLA Institute of Geophysics and Planetary Physics Hyo-Sung Ahn Gwangju Institute of Science and Technology, Gwangju

- **결론**

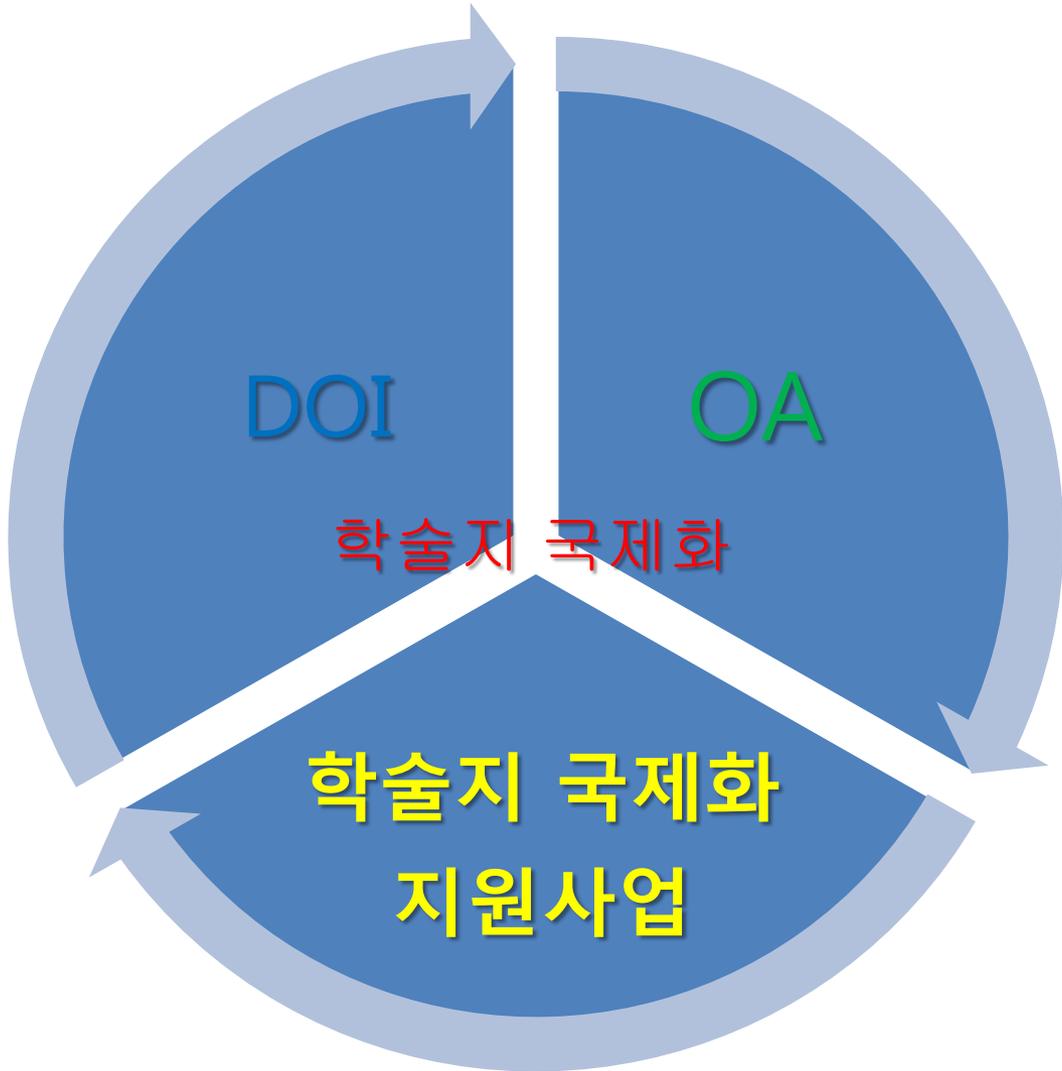
결론: 국내 학술지 DOI/OA 추진 현황

- 현재, 국내 학술지 중에서 DOI 사업에 참여하고 있는 학술지는 약 200개이다.
 - 의편협을 통한 경우가 약 80여종이며,
 - KISTI를 통한 경우가 약 120종에 이른다.
- 그리고 국내 학술지 중에서 DOAJ에 오픈액세스 학술지로 등록된 학술지는 약 30종이 된다.
- 우리나라의 학술지가 더욱 국제화되기 위해서는 더 많은 학술지가 DOI 사업과 오픈액세스 운동에 동참하여야 할 것이다.

결론: 한국형 학술지 DOI/OA 모형(이공분야)



결론: 국내 학술지 국제화 방향



감사합니다!