KOREA

Strategy for enhancing research performance and research collaboration of Korea University: in terms of evidence-based analysis



내원한지상이 트쉬운 열정자 손라는 보.세계무대와 통하는 민족지성의 심장 UNIVERSITY

JunSuk Hong Headquarters of Research Planning/Research Planning Team, Korea University 2015.04.15







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1996.07.- 2001.07 Graduate School of Biotechnology, Korea University

2001.07.- 2007.03 Office of Research/Research Promotion Team,

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2015.03.- Current Headquarters of Research Planning/Research Planning

Team, Korea University

Intro



Research Oriented University



Research support program



Information Analysis Fund People Facilities

> DBs Tools

Internal DB, Journal External(Scopus, WoS)

Analysis Tool (SciVal, Pure Experts)



CONTENTS

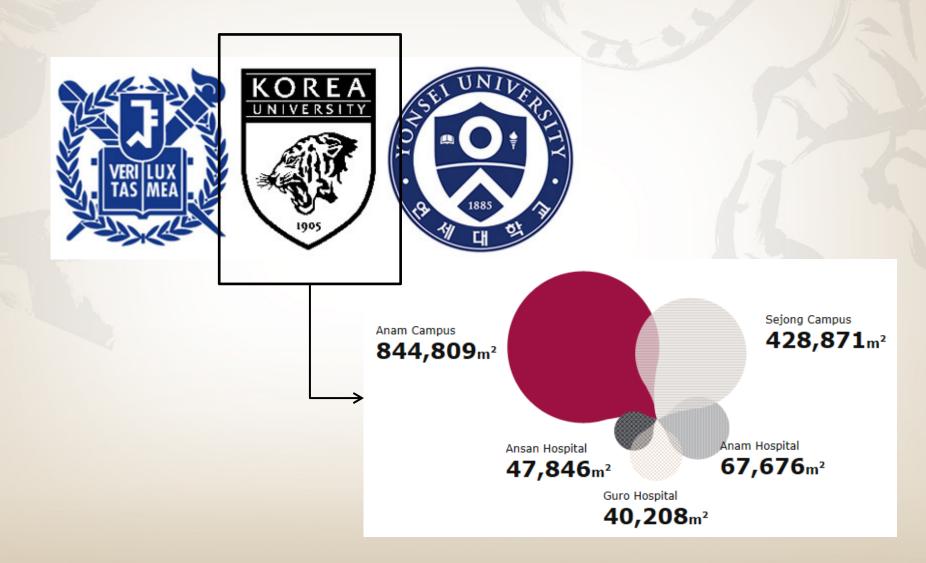
- Overview of Korea University
- 2. Strategy for enhancing KU research performance
- 3. KU started to use SciVal & Pure Experts And Current status
- 4. Examples using SciVal & Pure Experts



Overview of Korea University



· the Best 3 Universitiesc



1. Overview of Korea University • the Best 3 Universities

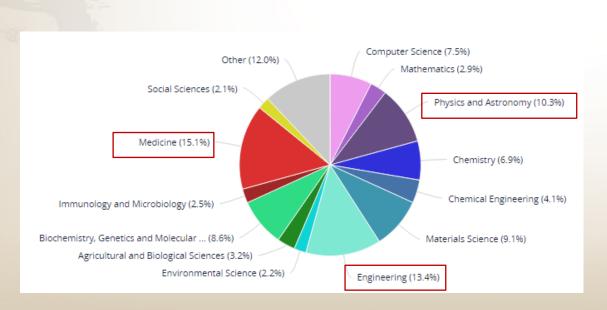


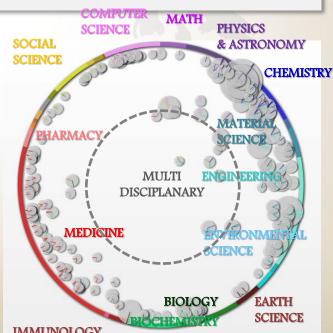
A. Korea University

I. 5 year (2010-2014) Research outputs (SciVal analysis)

| Publication | Citations | Citation per paper | |
|-------------|-----------|--------------------|--|
| 21,029 | 118,867 | 5.7 | |

- II. Categories of 2010-2014 Research outputs
 - The research outputs of Medicine (15.1%), Engineering (13.4%), Physics and Astronomy (10.3%) forms 38.8% of overall research outputs.
 - In the competency map, multidisciplinary research outputs are relatively abundant in Physics and Astronomy, Chemistry, Material Science, Environmental Science, etc.







1. Overview of Korea University



| · International Evalu | ations |
|-----------------------|--------|
|-----------------------|--------|

| Evaluation | Rank | Etc. |
|---|------|---|
| 2015 US News & World Report Best Global Universities Rankings | 157 | In 49 countries on four continents around the world |
| 2014- 2015 THE World University Rankings | 224 | Rising rapidly (by 90 positions) from the previous year |
| 2014- 2015 QS World University Rankings | 116 | Climbed 75 places over the last five years |
| QS Subject Rankings | 46 | political and international affairs |
| (In 17 subject areas, | 45 | International Studies |
| KU stands among the | 25 | Communications and Media Studies |
| top 100 universities) | 50 | Chemical Engineering |



2. Strategy for enhancing KU research performance

· Decision Making based on DB management

Step 1. DB extraction



Step 2. DB management



Step 3. Analysis and establishment of a strategy











KU started to use SciVal & Pure Experts And Current status



SciVal OPEN

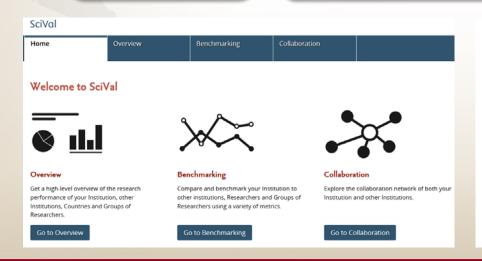
(2014.06.01)

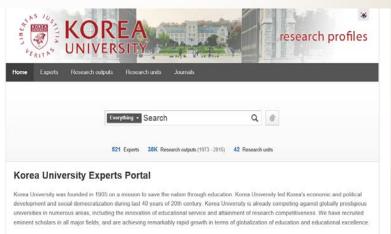
- Hold Workshops (2014.06- Current)
- Announcement & Promotion for SciVal
- Korea's top universities' research comparative analysis
- Global Research Exchange Support Project(Cooperative research areas)
- Global Institute(I3) research competency
- Verification of KU Academy Award Candidate

Pure Experts OPEN

(2014.12.01)

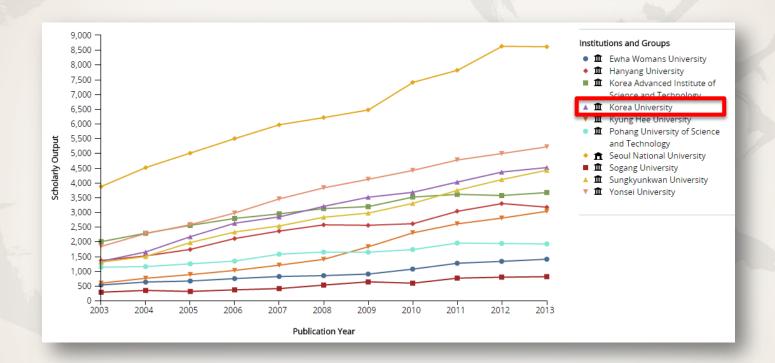
- Announcement & Promotion for Pure Experts (521 researchers' profile from SCOPUS DB)
- Korea's top universities' research comparative analysis
- Global Research Exchange Support Project(Cooperative research areas)
- Global Institute(I3) co- working research areas analysis







3. KU started to use SciVal & Pure Experts And Current status



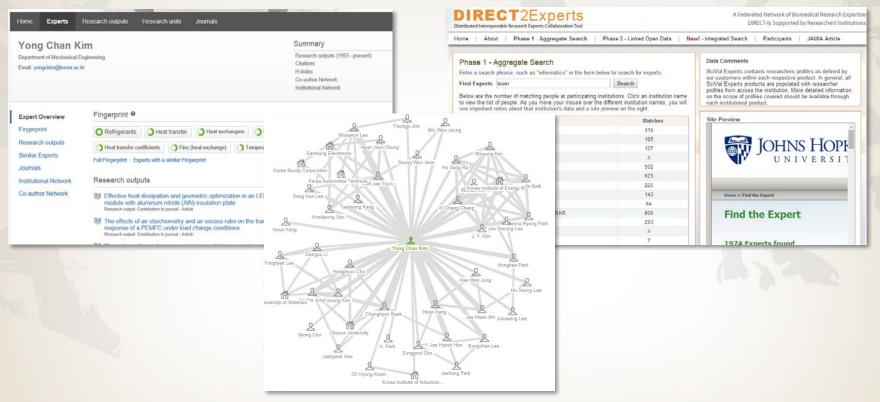
Strengths in using SciVal

- 1. Analysis between institutions objective and up to date data
- 2. Analysis between researchers
- 3. Analysis for research collaborations



3. KU started to use SciVal & Pure Experts And Current status





Strengths in using Pure Experts

- 1. Automatic management and promotion of research achievements
- 2. Entering the network that connects the world- wide professionals
- 3. Providing keyword information using Fingerprint and potential researchers suggestion



4. Examples using SciVal & Pure Experts
• KU–UIUC Research activity & collaboration





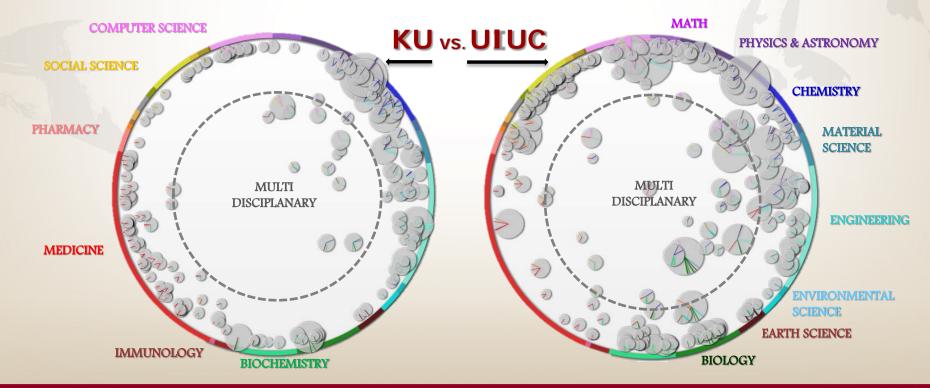
Global Research Exchange Support Project



Examples using SciVal & Pure Experts • KU-UIUC Research activity & collaboration

Comparison of Competency map between KU & UIUC

- Multidisciplinary research outputs of KU are relatively abundant in Physics and Astronomy, Chemistry, Material Science, Environmental Science, etc.
- II. Multidisciplinary research outputs of UIUC are more active than those of KU in most categories.
- III. However, KU have published more papers in various subtopics of medicine than those of UIUC.





4. Examples using SciVal & Pure Experts · KU-UIUC Research activity & collaboration



| | Collaboration with the University of Illinois at Urbana-Champaign | | | | | | | |
|---------------------------|---|---|--------------------------|---------------------|--|-------|--------------------------------------|-------------|
| | Year range: 201 | 0 to 2014 | | | | | Export ▼ | Shortcuts ▼ |
| | Overview | Current co-a | uthors P | otential co-authors | | | | |
| ™ Korea University | | Co-au | Co-authored publications | | University of Illinois at Urbana- Champaign | | | |
| | Un Un | authors with the iversity of Illino ampaign | | | 155 • | ns | 127 co-authors with Korea University | |
| | Total output of t | this Institution | | | | | Total output of this Institution | |
| | Citations | | 118,867 | Citations | | 2,752 | Citations | 249,553 |
| | Citations per Pub | blication | 5.7 | Citations per P | ublication | 17.8 | Citations per Publication | 7.4 |
| | Field-Weighted C | itation Impact | 1.24 | Field-Weighted | Citation Impact | 2.91 | Field-Weighted Citation Impact | 1.81 |
| | Publications | | 21,029 🔺 | | | | Publications | 33,576 🕶 |
| | Authors | | 12,016 🔺 | | | | Authors | 16,612 🔺 |



Examples using SciVal & Pure Experts



· Institute for International Innovation(I3)



Universities from Korea, Singapore, and Israel Contribute to Creative Economy

Writer: Communications Team Hits: 130 Date: 01/21/2015

Universities from Korea, Singapore, and Israel Contribute to Creative Economy Institute for International Innovation Established by KU, NTU, and HUJI





4. Examples using SciVal & Pure Experts• Institute for International Innovation(I3)

Subject 1 : Cyber Security

- I. 2009-2013 Research outputs in Korea Univ.
- During past 5 years, the research output about Cyber Security(Cyber security, Computer crime,
 Network security, Security systems etc.) has recorded 32 and the total citations of them have been 81.
 47 researchers were involved in those publications.

| Publications | Citations | Authors | Citations per Publication |
|--------------|-----------|---------|---------------------------|
| 32 🔺 | 81 | 47 🔺 | 2.5 |

- The worldwide citations per publication in Cyber Security is recorded 1.7, however, the publications at Korea Univ. in this research area received an average of 2.5 citations per publication.
- It means Cyber security field of Korea Univ. is competitive globally and Korea univ. has enough
 potential to lead research collaboration in Cyber security.

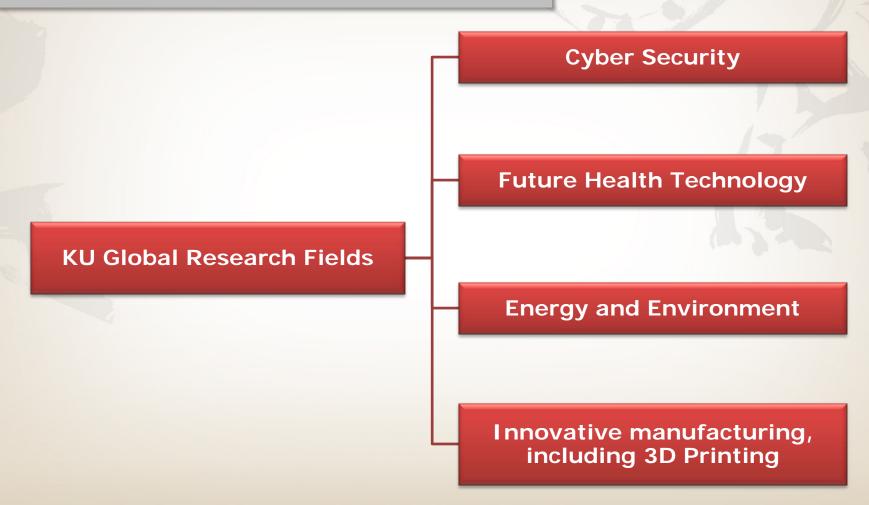






· Institute for International Innovation(I3)

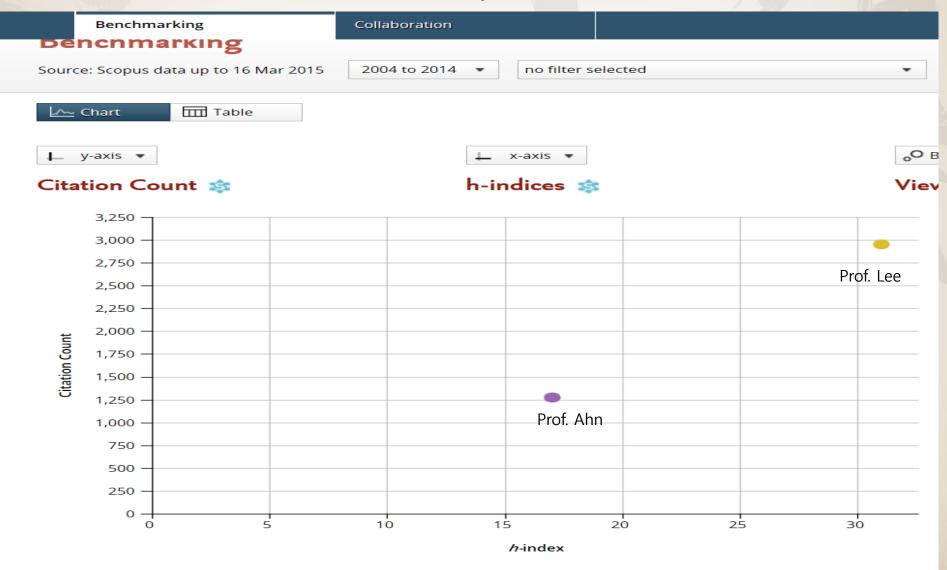
List of KU Global Research Fields





4. Examples using SciVal & Pure Experts

· Verification of KU Academy Award Candidate





4 Examples using SciVal & Pure Experts



· Verification of KU Academy Award Candidate

'고려대 교우회 학술상' 수상자에 안지훈·이상훈 교수

[머니투데이] 입력 2015.01.05 14:15

골자크기 + -





☆ 좋아요 공유하기 < 0

[머니투데이 고은별 기자] 고려대학교 생명과학대학 생명과학과 안지훈 교수와 보건과학



고려대학교 생명과학대학 생명과학과 안지훈 교수(왼쪽)와 보건과학대학 바이오의공학부 이상훈 교수/사진=고 ಚ매

대학 바이오의공학부 이상훈 교수가 고려대 교우회(회장 주선회)가 제정한 '제2회 고려대학 교 교우회 학술상' 수상자로 선정됐다.

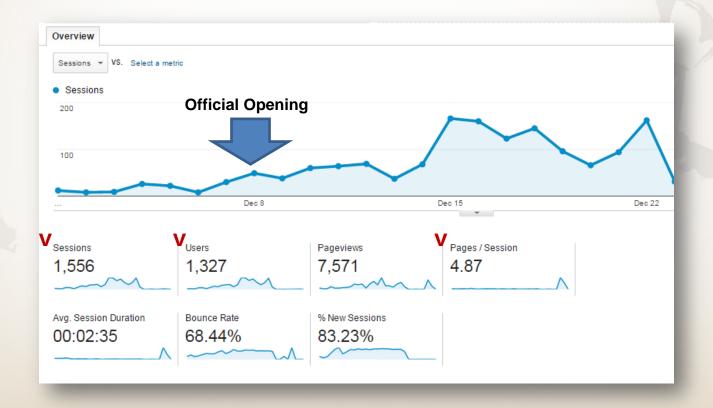
5일 고려대에 따르면 자연이공 부문 수상자인 안 교수는 '대기온도에 의한 개화시기 조절 분야'에 전념하면서 학계의 핵심주제로 부각시켰다는 평가를 받고 있다. Science 논문을 비롯해 50여편의 학술논문을 발표했으며 4500여회 피인용될 정도로 학계에 큰 영향을 미 친 것으로 알려졌다.



4. Examples using SciVal & Pure Experts

· Actual usage analysis of Korea Univ. Pure Experts

A. Overview



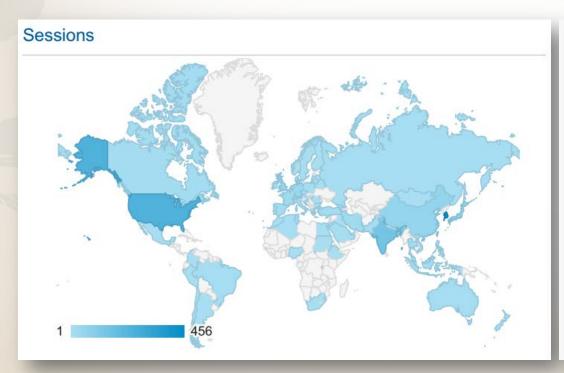
★ Usage Period: 2014. 12. 1 ~ 2014. 12. 31 (1 month)





· Actual usage analysis of Korea Univ. Pure Experts

B. Distribution of accessing Korea Univ. Pure Portal



| New Users and Pageviews by Country | | | | |
|------------------------------------|----------|-----------|--|--|
| Country | Sessions | Pageviews | | |
| South Korea | 456 | 3,210 | | |
| United States | 248 | 1,501 | | |
| India | 148 | 275 | | |
| Taiwan | 77 | 1,345 | | |
| Japan | 61 | 178 | | |
| China | 58 | 94 | | |
| 35 United Kingdom | 44 | 65 | | |
| Germany | 41 | 118 | | |
| ■ France | 29 | 38 | | |
| Malaysia | 26 | 36 | | |

★ Usage Period: 2014. 12. 1 ~ 2014. 12. 31 (1 month)



Thank You