



What to prepare and how to do

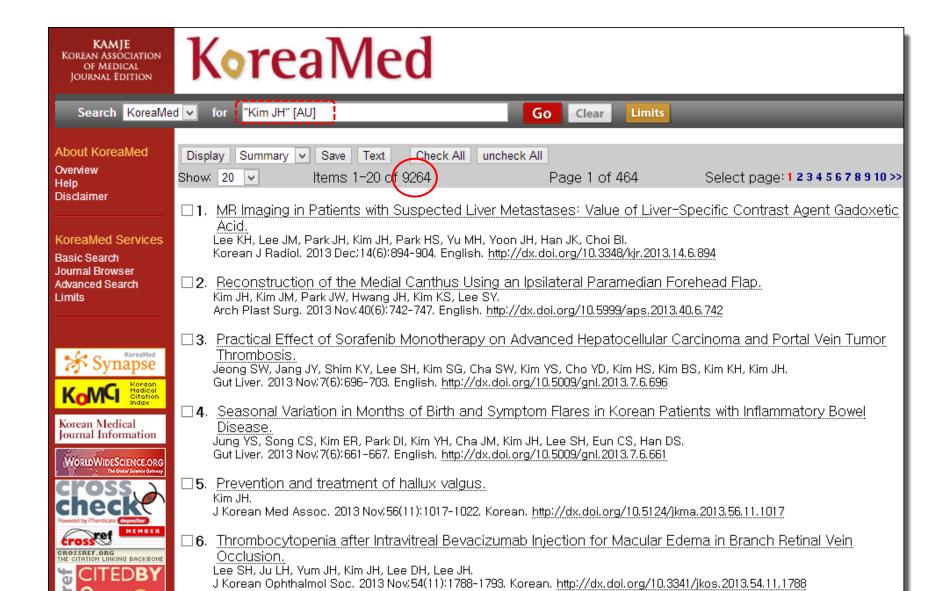
Hye Sook Jang

\*\*Samlink\*

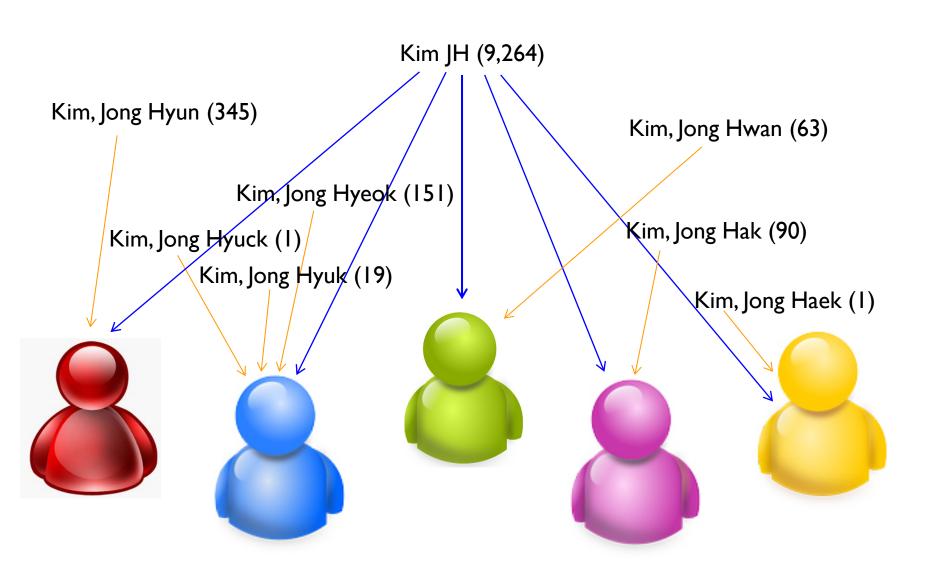
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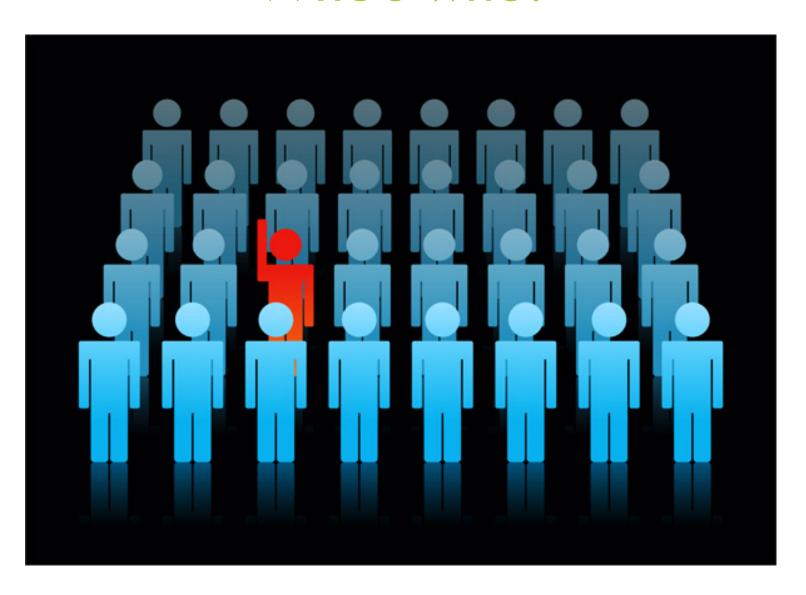
## What is the Problem?



### What is the Problem?



## Who's who?



### What is ORCID?

### Open Researcher and Contributor D

e.g. http://orcid.org/0000-0003-4104-9655

- Launched in October 2012
- 16-digit number
- Compatible with ISO 277729 standard
- About 250,000 ORCID iD holders
- Expressed as an HTTP URI

## **ORCID** core functions

 A registry to obtain a unique identifier and manage a record of activities

• APIs that support system-to-system communication and authentication.

# DISTINGUISH YOURSELF IN THREE EASY STEPS



**REGISTER** Get your unique ORCID identifier Register now! Registration takes 30 seconds.

2 ADD YOUR INFO

Enhance your ORCID record with your professional information and link to your other identifiers (such as Scopus or ResearcherID or LinkedIn).

USE YOUR ORCID ID

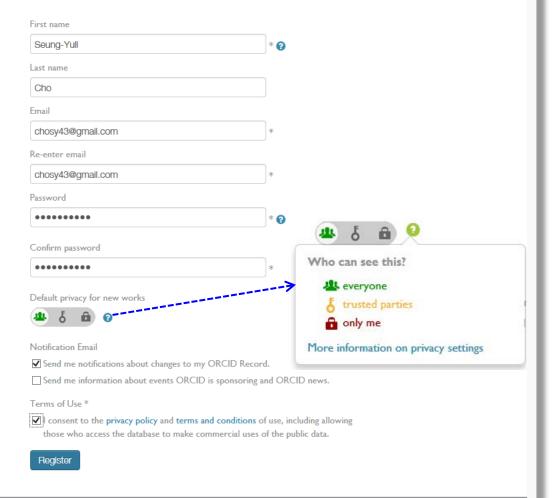
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293063 ORCID iDs and counting. See more...



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#### Register for an ORCID ID

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ORCID iD (click link to login)	Email	Given Name(s)	Family Name	Institution
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0000-0003-3149-9759		Seung-Yeon	Cho	
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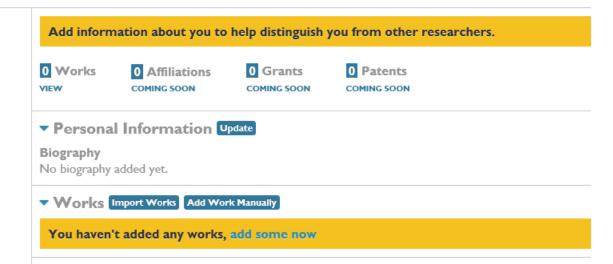
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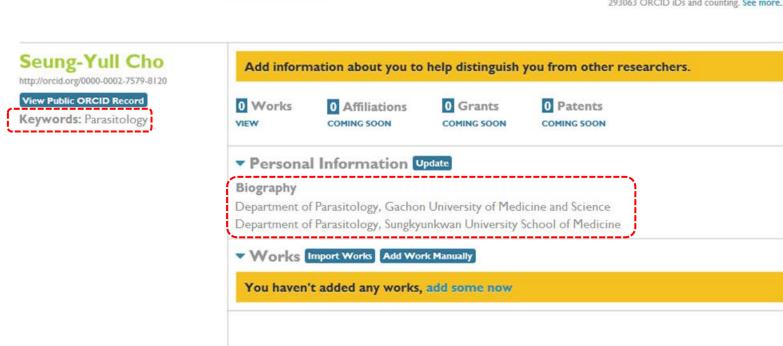
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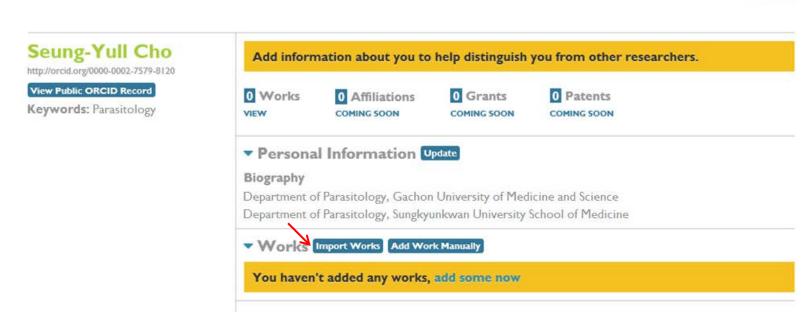
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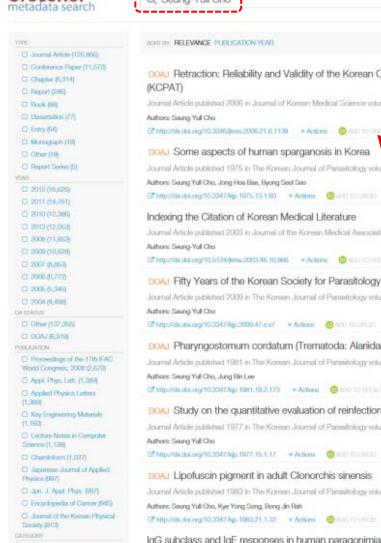
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C Electrical and Electronic Engineering (7,867) C) Diochemistry (7,067)

☐ Charristry(all) (7,019)

C Electronic, Optical and

Magnetic Materials (6,260) ☐ Materials Chemistry (5,216).

☐ Molecular Biology (5,957) Maturials Science(all) (5,889)

☐ Mechanical Engineering

(5,084)

SOFT BY: RELEVANCE PUBLICATION YEAR DOAJ Retraction: Reliability and Validity of the Korean Cancer Pal Journal Article published 2006 in Journal of Korean Medical Science volume 21 issue ( Authors: Soung-Yul Cho DOAJ Some aspects of human sparganosis in Korea Journal Article published 1975 tri The Korean Journal of Parasitology volume 13 issue Authors: Seung Yull Cho, Jong Hoa Ban, Byong Seel See ☑ http://dx.doi.org/10.2347/kgp.1975.13.1.60. 

☑ Actions 
☑ ALLI III CHEE Indexing the Citation of Korean Medical Literature Journal Article published 2003 in Journal of the Korean Medical Association volume 4 Authors: Seung-Yul Cho DOAJ Fifty Years of the Korean Society for Parasitology Journal Article published 2009 in The Korean Journal of Paranitology volume 47 issues

Authors: Saung-Yul Cho

DOAJ Pharyngostomum cordatum (Trematoda: Alariidae) collecte

Journal Article published 1981 in The Korean Journal of Parasitology volume 19 issue

Authors: Seung Yull Cho, Jung Bin Lee

DOAJ Study on the quantitative evaluation of reinfection of Ascari

Journal Article published 1977 in The Koreon Journal of Panasitology volume 15 issue Authors: Seung Yuli Cho

DOAJ Lipofuscin pigment in adult Clonorchis sinensis

Journal Article published 1983 in The Korean Journal of Parasitology volume 21 issue

Authors: Soung Yuli Cho, Kye Yong Song, Bong Jin Rah

IgG subclass and IgE responses in human paragonimiasis causer species

Journal Article published Aug 1998 in Parasitology International volume 47 on page 26

Authors: Kong Yoon, Ito Akira, Cho Seung-Yuli

Other IDs: S1383576998807447

Status of reemerging vivax malaria in Republic of Korea

Journal Article published Aug 1998 in Parasitology International volume 47 on page 40.

Authors: Weon-Gyu Kho, Jong-Soo Lee, Seung-Yul Cho. Other IDs: \$1383576998812063

@ http://dx.doi.org/10.1016/s1383-5769(96)81206-3 w Actions @ ADD 1010HD0

(5,023)

□ National Science Foundation:

C U.S. Department of Energy (20)

 Ministry of Education, Culture, Sports, Science, and Technology

□ National Institute of Mental. Health III

☐ National Institutes of Health (7)

CI National Cancer Institute (6) Army Research Office (5)

☐ National Science Council Tuiwan (5)

□ National Institute on Drug Abuse (4)

C Air Force Office of Scientific Research (3)

☐ CrossRef (144,274)

#### Diagnostic 10 kda antigen for taenia solium cystoercosis

Journal Article published Aug 1998 in Parasitology International volume 47 on page 29

Authors: Seung-Yull Cho. Yoon Kong. Other IDs: S1383576998800275

3 http://dx.doi.org/10.1016/s1383-57696Rtg00027-5 × Actions (3 // LEFT 0 EFC E)

#### Reply

Journal Article published May 2000 in The Journal of Infectious Diseases volume 181 issue 5 on pages 1871 to 1872

Authors: Yoon Kong, Seung Yull Cho.

Other IDs: 10.1086/315415

#### DOAJ The 10 kDa protein of Taenia solium metacestodes shows genus specific antigenicity

Journal Article published 2000 in The Korean Journal of Parasitology volume 38 issue 3 on page 191

Authors: Seung-Kyu Park, Doo-Hee Yun, Joon-Yong Chung, Yoon Kong, Seung-Yull Cho

DOAJ A case of human fascioliasis in Korea

Journal Article published 1976 in The Korean Journal of Parasitology volume 14 issue 2 on page 147

Authors: Seung Yuli Cho, Byong Seol Seo, Yong Il Kim, Chi Kyoo Won, Sung Kyung Cho 

DOAJ An acephalic budding Cysticercus (= Racemose cysticercus) found at the abdominal wall of a man

Journal Article published 1985 in The Korean Journal of Paranitology volume 23 issue 2 on page 260

Authors: Seung Yull Cho, Balk Kee Cho, Won Young Choi

@ http://dx.doi.org/10.3347/kgr.1985.23.2.260 v Actions 0 A00 III 0 ROD

DOAJ Effect of anthelmintics on the early stage of Enterobius vermicularis

Journal Article published 1985 in The Korean Journal of Parasitology volume 23 issue 1 on page 7

Authors: Seung Yull Cho, Shin Yong Kang, Suk Il Kim, Chul Yong Song-

#### DOAJ Two cases of human infection by adult of Spirometra erinacei

Journal Article published 1984 in The Korean Journal of Panasitology volume 22 issue 1 on page 66

Authors: Soon Hyung Lee, Jong Yil Chai, Byong Seol Seo, Seung Yull Cho

#### DOAJ Chemotherapeutic control of Enterobius vermicularis infection in orphanages

Journal Article published 1980 in The Korean Journal of Parasitology volume 18 issue 1 on page 37.

Authors: Sung Tae Hong, Seung Yull Cho, Byong Seol Seo, Chong Ku Yun. 

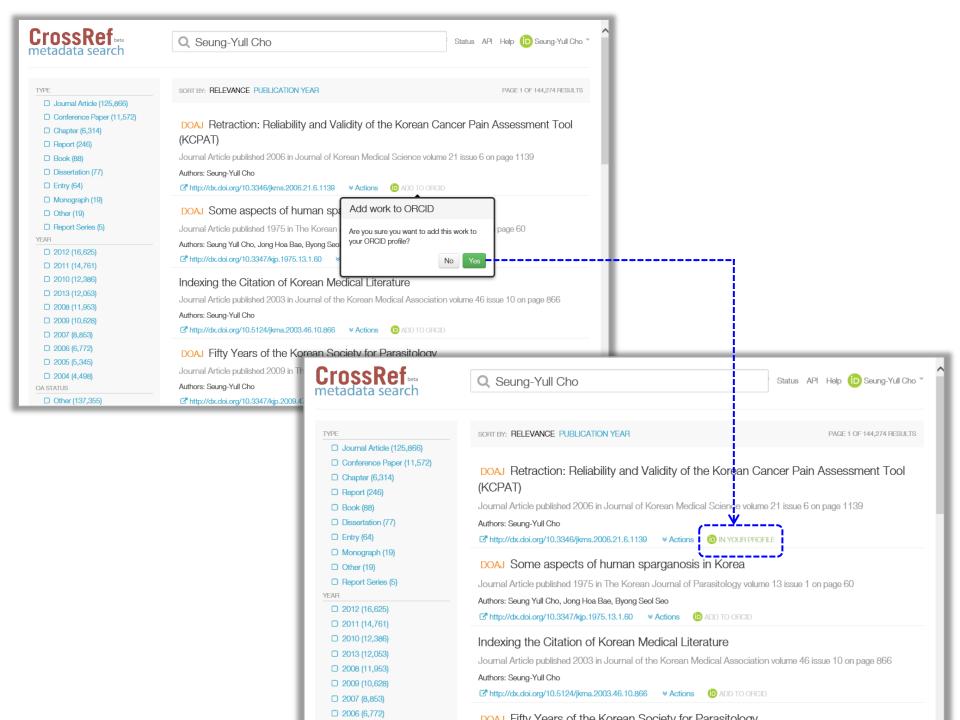
PoAJ Relationships between the results of repeated anal swab examinations and worm burden of Enterobius vermicularis

Journal Article published 1976 in The Koman Journal of Parasitology volume 14 issue 2 on page 109

Authors: Seung Yull Cho, Shin Yong Kang, Yong Suk Ryang, Byong Seol Seo. 

DOAJ Significance of Scotch-tape anal swab technique in diagnosis of Enterobius vermicularis infection

Journal Article published 1975 in The Korean Journal of Panasitology volume 13 issue 2 on page 102





SORT BY: RELEVANCE PUBLICATION YEAR

PAGE 4 OF 144,274 RESULTS

DOAJ Electrophoretic patterns of proteins from Paragonimus westermani in early developmental stages

Journal Article published 1985 in The Korean Journal of Parasitology volume 23 issue 2 on page 189

Authors: Boong Huer, Suk II Kim, Shin Yong Kang, Seung Yull Cho

DOAJ In situ posture of anterior body of Metagonimus yòkogawai in experimentally infected dog

Journal Article published 1985 in The Korean Journal of Parasitology volume 23 issue 2 on page 203

Authors: Young Kee Jang, Shin Yong Kang, Suk Il Kim, Seung Yull Cho

DOAJ Number of intrauterine eggs in female Enterobius vermicularis by body length

Journal Article published 1985 in The Korean Journal of Parasitology volume 23 issue 2 on page 253

Authors: Seung Yull Cho, Im Won Chang, Hyun Jung Jang

DOAJ A study on intestinal lesions of experimentally reinfected dogs with Metagonimus yokogawai

Journal Article published 1983 in The Korean Journal of Parasitology volume 21 issue 1 on page 58

Authors: Shin Yong Kang, Seung Yull Cho, Jong Yil Chai, Jung Bin Lee, Du Hwan Jang

http://dx.doi.org/10.3347/kjp.1983.21.1.58 

DOAJ Five cases of Diphyllobothrium latum infection

Journal Article published 1983 in The Korean Journal of Parasitology volume 21 issue 2 on page 150

Authors: Soon Hyung Lee, Byong Seol Seo, Jong Yil Chai, Sung Tae Hong, Sung Jong Hong, Seung Yull Cho

Authors: Sung Hwan Kim, Yoon Kong, Suk II Kim, Shin Yong Kang, Seung Yull Cho DOAJ Study on the status of helminthic infections in Koreans Journal Article published 1969 in The Korean Journal of Parasitology volume 7 issue 1 on page 53 Authors: Byong Seol Seo, Han Jong Rim, In Kyu Loh, Soon Hyung Lee, Seung Yull Cho, Seung Chull Park, Jong Wha Bae, Joong Ho Kim, Joon Sang Lee, Bon Yong Koo, Kon Shik Kim Identification of immunodominant excretory-secretory cysteine proteases of adultParagonimus westermani by proteome analysis Journal Article published Feb 2006 in PROTEOMICS volume 6 issue 4 on pages 1290 to 1300 Authors: Eung-Goo Lee, Byoung-Kuk Na, Young-An Bae, Seon-Hee Kim, Eun-Young Je, Jeong-Won Ju, Shin-Hyeong Cho, Tong-Soo Kim, Shin-Yong Kang, Seung-Yull Cho, Yoon Kong DOAJ Effect of Control Strategies on Prevalence, Incidence and Re-infection of Clonorchiasis in Endemic Areas of China Journal Article published 16 Feb 2010 in PLoS Neglected Tropical Diseases volume 4 issue 2 on page e601 Authors: Min-Ho Choi, Sue K. Park, Zhimin Li, Zhuo Ji, Gui Yu, Zheng Feng, Longqi Xu, Seung-Yull Cho, Han-Jong Rim, Soon-Hyung Lee, Sung-Tae Hong Editors: Banchob Sripa DOAJ A seroepidemiological survey of Taenia solium cysticercosis in Nabo, Guangxi Zhuang Autonomous Region, China Journal Article published 2005 in The Korean Journal of Parasitology volume 43 issue 4 on page 135 Authors: Joon-Yong Chung, Keeseon S. Eom, Yichao Yang, Xenming Li, Zheng Feng, Han-Jong Rim, Seung-Yull Cho, Yoon Kong 

Critical roles for excretory-secretory cysteine proteases during tissue invasion of Paragonimus westermani newly excysted metacercariae

Journal Article published Jun 2006 in Cellular Microbiology volume 8 issue 6 on pages 1034 to 1046

Authors: Byoung-Kuk Na, Seon-Hee Kim, Eung-Goo Lee, Tong-Soo Kim, Young-An Bae, Insug Kang, Jae-Ran Yu, Woon-Mok Sohn, Seung-Yull Cho, Yoon Kong

Other IDs: 10.1111/i.1462-5822.2006.00685.x



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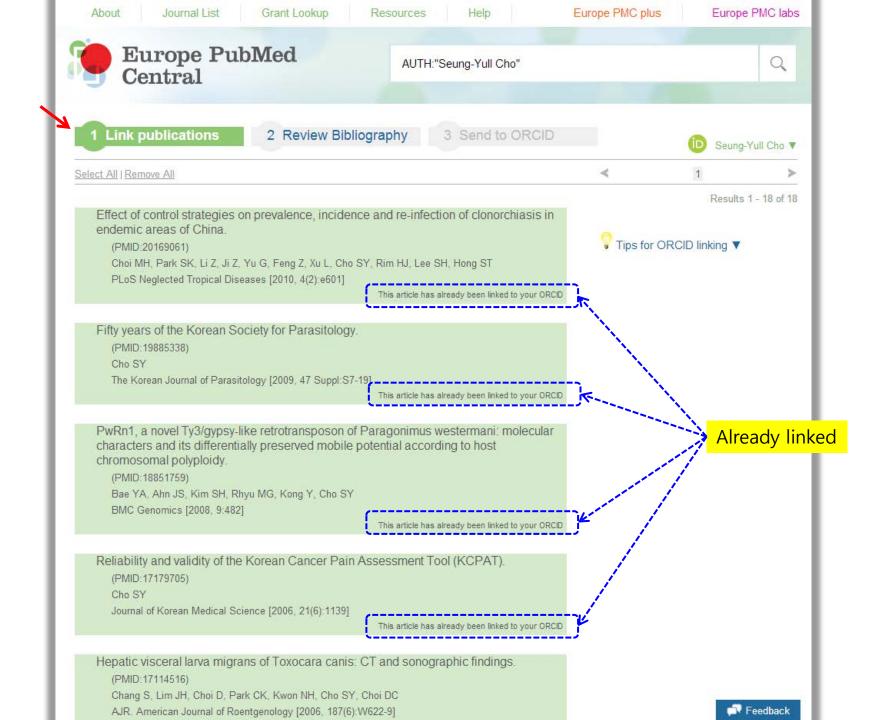
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Identification of immunodominant excretory-secretory cysteine proteases of adult Paragonimus westermani by proteome analysis.

(PMID:16404718)

Lee EG, Na BK, Bae YA, Kim SH, Je EY, Ju JW, Cho SH, Kim TS, Kang SY, Cho SY, Kong Y

Proteomics [2006, 6(4):1290-1300]

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Correlation between sonographic findings and infection intensity in clonorchiasis.

(PMID:16354827)

Choi MS, Choi D, Choi MH, Ji Z, Li Z, Cho SY, Hong KS, Rim HJ, Hong ST The American Journal of Tropical Medicine and Hygiene [2005, 73(6):1139-1144]

Evaluation of Clonorchis sinensis recombinant 7-kilodalton antigen for serodiagnosis of clonorchiasis.

(PMID:15242967)

Zhao QP, Moon SU, Lee HW, Na BK, Cho SY, Kong Y, Jiang MS, Li AH, Kim TS

Clinical and Diagnostic Laboratory Immunology [2004, 11(4):814-817]

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Sonographic findings of active Clonorchis sinensis infection.

(PMID:14705173)

Choi D, Hong ST, Lim JH, Cho SY, Rim HJ, Ji Z, Yuan R, Wang S

Journal of Clinical Ultrasound: JCU [2004, 32(1):17-23]

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Prevalence of intestinal parasite infections on a national scale among primary schoolchildren in Laos.

(PMID:14574555)

Rim HJ, Chai JY, Min DY, Cho SY, Eom KS, Hong SJ, Sohn WM, Yong TS, Deodato G, Standgaard H, Phommasack B, Yun CH, Hoang EH

Parasitology Research [2003, 91(4):267-272]

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☐ Recombinant antigen of Taenia solium metacestodes

(PATENT:US6589752)

KONG YOON, CHUNG JOON-YOUNG, BAHK YOUNG YIL, KANG SHIN-YONG, CHO SEUNG-YULL

Excretory bladder: the source of cysteine proteases in Paragonimus westermani metacercariae.

(PMID:12073734)

Yang HJ, Chung YB, Kang SY, Kong Y, Cho SY

The Korean Journal of Parasitology [2002, 40(2):89-92]

Recombinant Paragonimus westermani yolk ferritin is a useful serodiagnostic antigen.

(PMID:12001061)

Vim TV Joe II Kang SV Cho SV Kong V Can VV Sukomtoson V Sukomtoson V Hong S I





AUTH: "Seung-Yull Cho"

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2 Review Bibliography

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4 records selected to be added to your ORCID (134 in total)

Correlation between sonographic findings and infection intensity in clonorchiasis.

(PMID: 16354827)
Choi MS, Choi D, Choi MH, Ji Z, Li Z, Cho SY, Hong KS, Rim HJ, Hong ST

The American Journal of Tropical Medicine and Hygiene [2005, 73(6):1139-1144]

Excretory bladder: the source of cysteine proteases in Paragonimus westermani metacercariae.

(PMID: 12073734 | PMCID: PMC2721048)
Yang HJ, Chung YB, Kang SY, Kong Y, Cho SY
The Korean Journal of Parasitology [2002, 40(2):89-92]

Clonorchis sinensis: immunolocalization of 26 kDa glutathione S-transferase in adult worms.

(PMID: 12856316)

Hong SJ, Kim TY, Kang SY, Yu JR, Song KY, Cho SY Experimental Parasitology [2002, 102(3-4):191-193]

Paragonimus westermani: molecular cloning, expression, and characterization of a recombinant yolk ferritin.

(PMID: 12856317)

Kim TY, Joo IJ, Kang SY, Cho SY, Hong SJ

Experimental Parasitology [2002, 102(3-4):194-200]

Effect of control strategies on prevalence, incidence and re-infection of clonorchiasis in endemic areas of China.

(PMID: 20169061 | PMCID: PMC2821909 | DOI: 10.1371/journal.pntd.0000601)

Choi MH, Park SK, Li Z, Ji Z, Yu G, Feng Z, Xu L, Cho SY, Rim HJ, Lee SH, Hong ST

PLoS Neglected Tropical Diseases [2010, 4(2):e601]

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Fifty years of the Korean Society for Parasitology.

(PMID: 19885338 | PMCID: PMC2769211 | DOI: 10.3347/kjp.2009.47.S.S7)

Cho SY

The Korean Journal of Parasitology [2009, 47 Suppl:S7-19]

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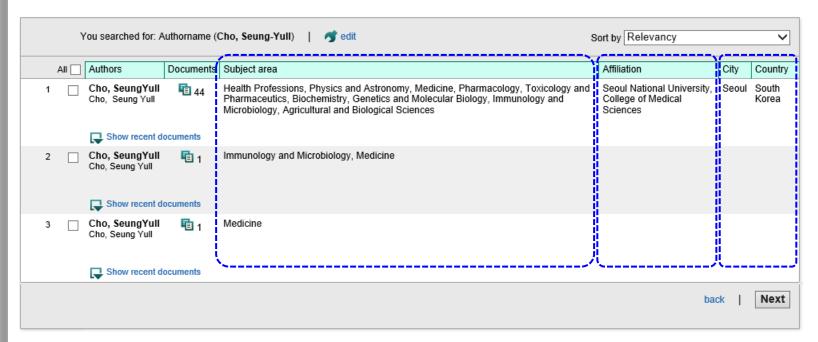
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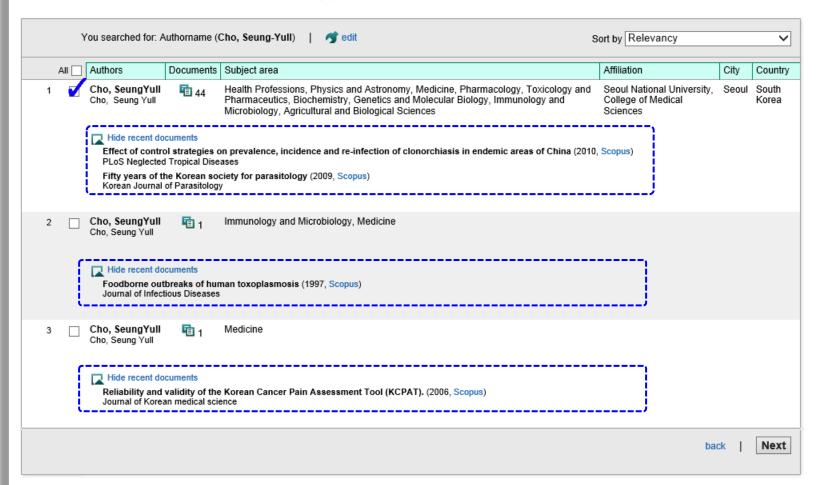
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4	Hepatic visceral larva migrans of Toxocara canis: CT and sonographic findings.	Chang, S., Lim, J.H., Choi, D., Park, C.K., Kwon, N.H., Cho, S.Y., Choi, D.C.	2006	AJR. American journal of roentgenology 187 (6)	
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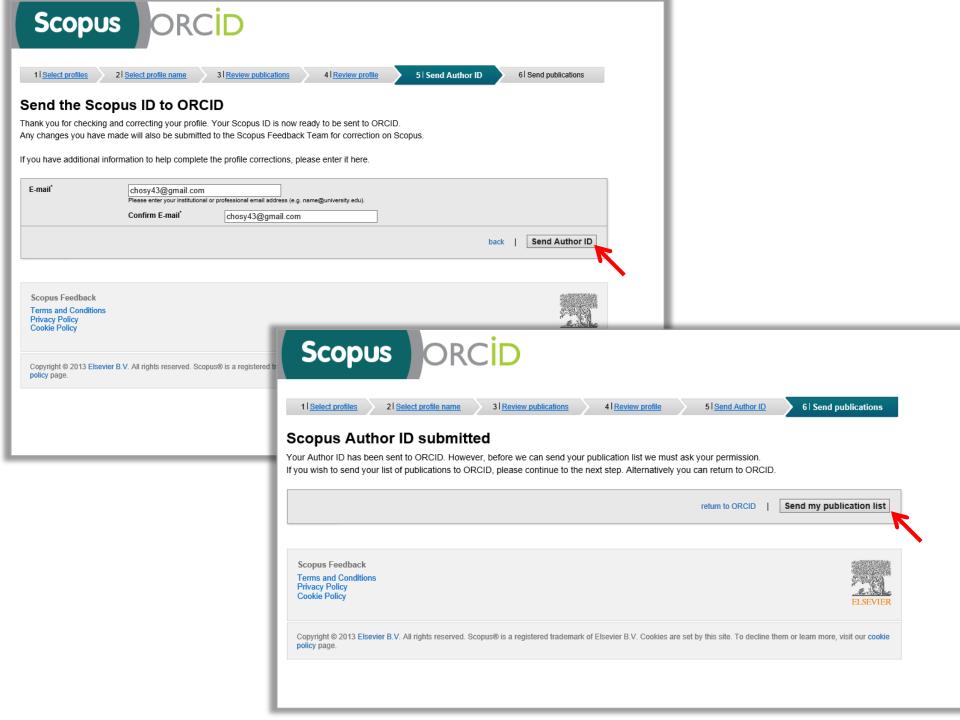
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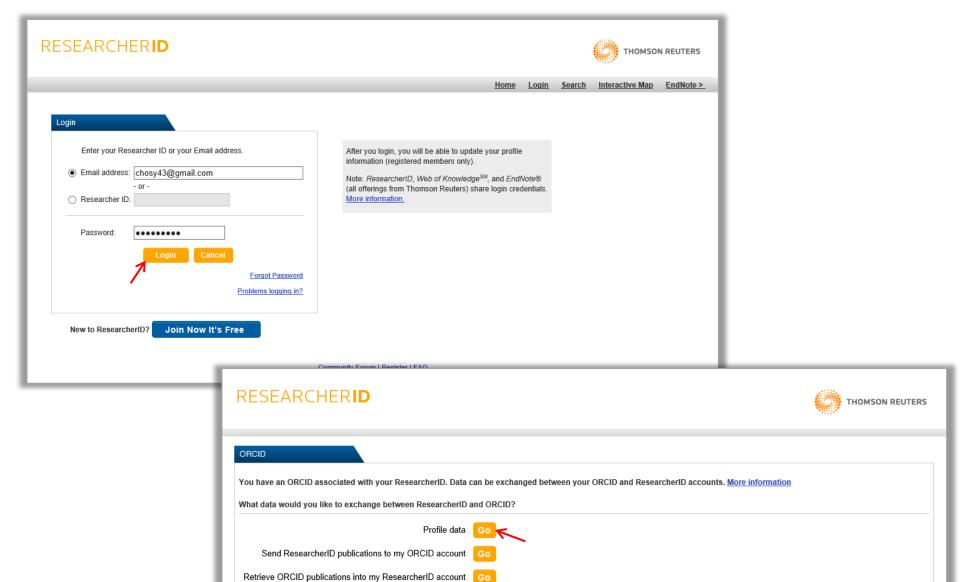
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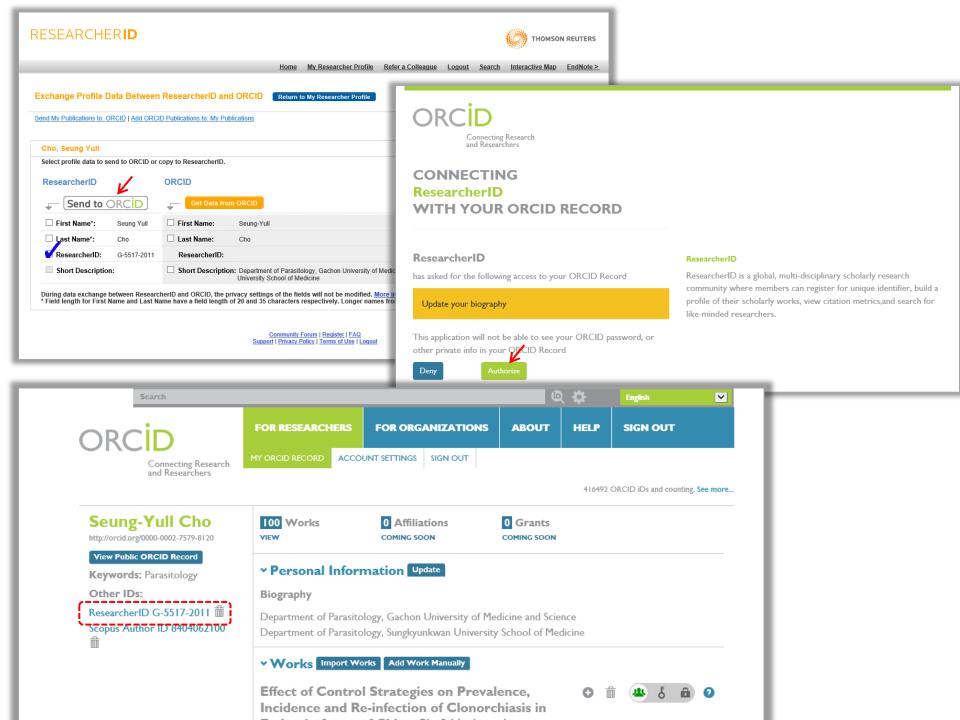


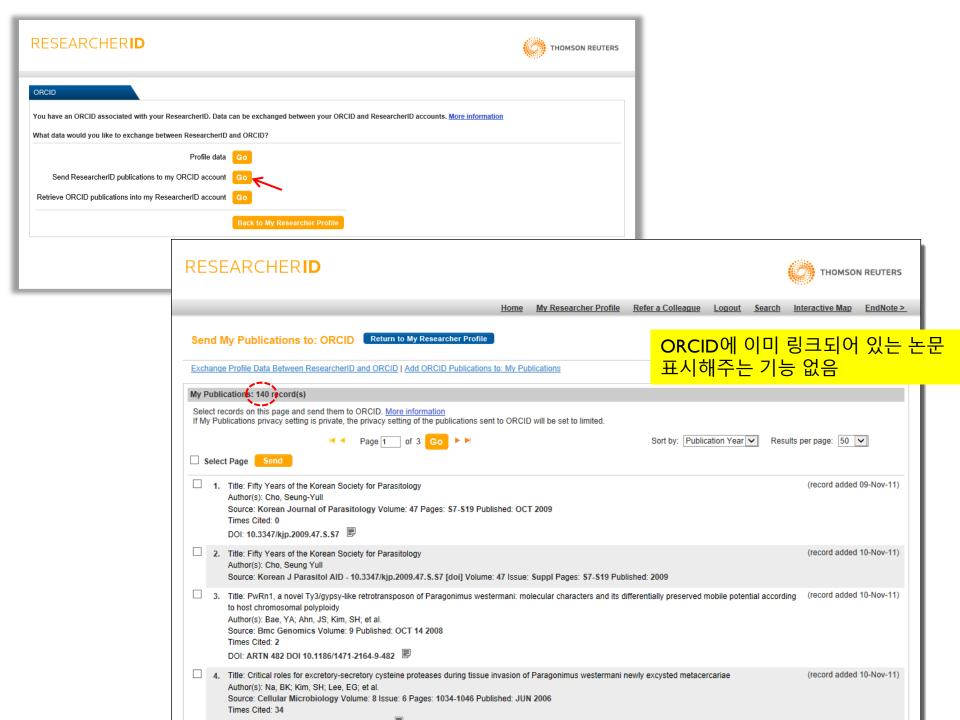
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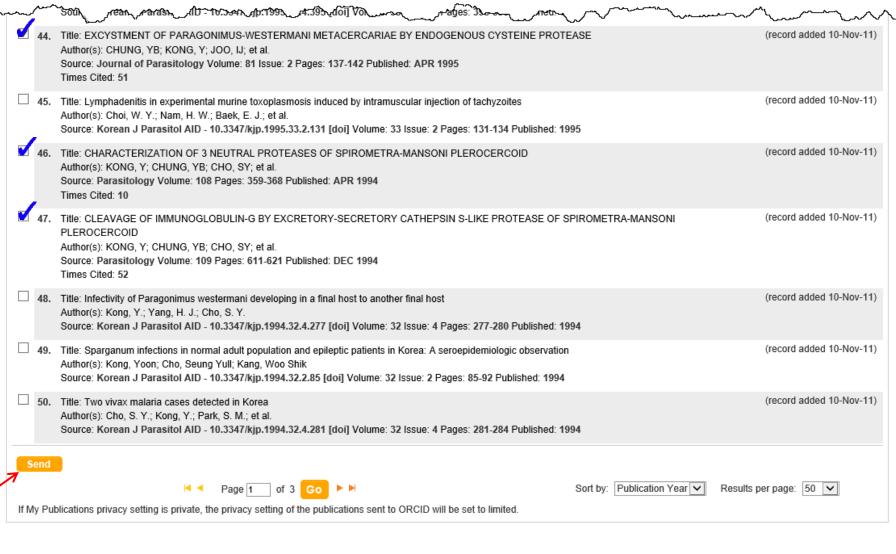


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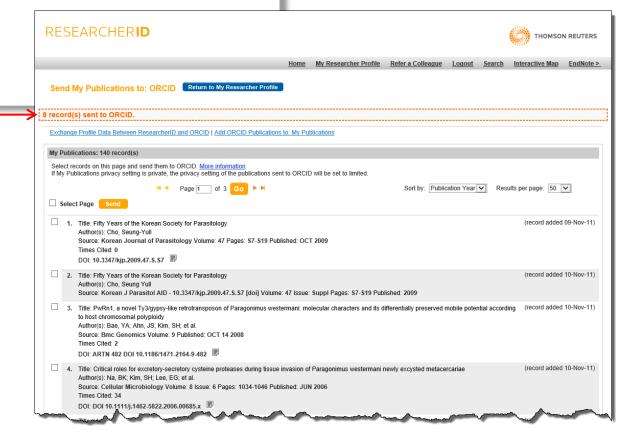
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During the 2005-2006 austral summer, an extensive field season was conducted at the MPH site. Soil from the contaminated site was sampled at regular intervals over the course of the summer and an array of soil toxicity assays were conducted on the soil to determine the sensitivity of each assay. The sensitivity of carbohydrate utilization, nitrifying and denitrifying activity to SAB contamination were assessed.<br/>
<br/>
> The contaminated site that I was working at was the Casey Main power house (MPH) Special Antarctic Blend (SAB) spill site. The existing spill occurred in the summer of 2000 when the tank that supplies SAB to the MPH was being refilled. An estimated 10,000L SAB fuel was spilled. 32 sites were chosen from the Casey MPH fuel spill and the sites will be referred to as ecotox sites. All sites were upsloped from the permeable reactive barrier (PRB) which was installed during the same field season (austral summer 2005-2006). The sites were chosen to represent a range of SAB contamination from 0 - 25,000 mg kg-1 SAB. The soil at the spill site consisted mostly of fill from the quarry, with lots of large rocks present. A sampling grid was established and surveyed using a total station. The location of each ecotox site is described by easting and northing from the baseline sight (0,0) which is marked on the north east corner of the bund surrounding the fuel tank on the north side of the MPH. Thermocouples and time-domain reflectometry (TDR) probes were installed at each ecotox site to measure soil temperature and soil liquid water content, respectively. A deep snow pack covered the site at the beginning of the summer (early November), and as the melt progressed a thick basal ice layer developed (mid-December). The snow on the site had melted by early January and the soil began to dry out. Pools of water that were present had algal growth. There was some moss present at a few of the sites. The soil was sampled nine times over the course of the summer, and the data are divided into folders titled ecotox 1, ecotox 2, ecotox 3, etc. to represent the nine sampling periods. For each sampling period soil from each site was subdivided into samples for five different soil toxicity assays including carbohydrate

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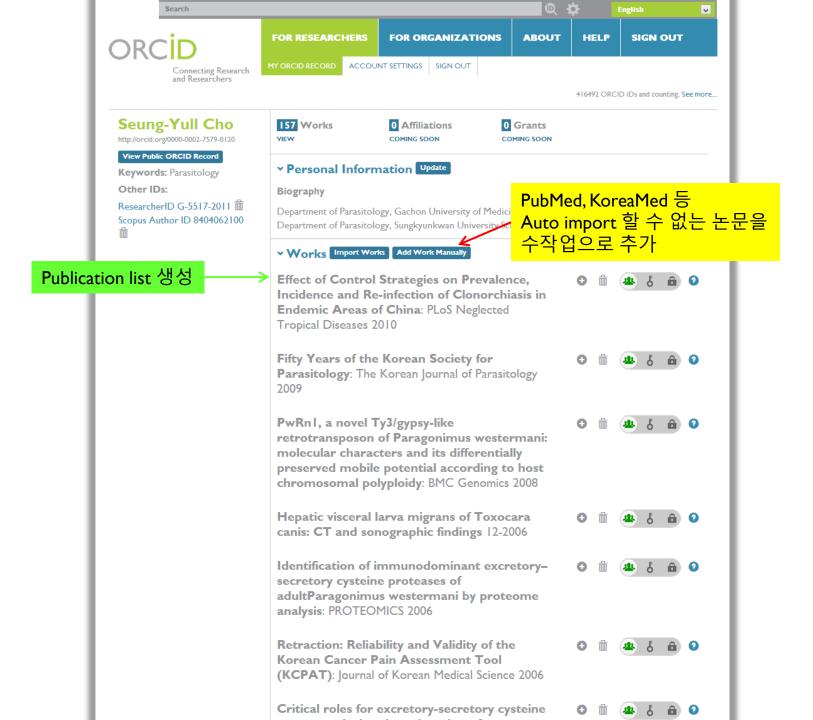
· N-linked sugar chain structure of recombinant human lymphotoxin produced by CHO cells: the functional role of carbohydrate as to its lectinlike character and clearance velocity.

while no differences may be found in the small subunit (SSU) of the ribosomal DNA, large differences can be found within the less conserved ITS region (Cho and Tiedje 2000; Kim et al. 2004) For example two distinct morphospecies (Peridinium aciculiferum and Scrippsiella hangoei) present in different habitats (freshwater and Baltic Sea) were found to have identical ribosomal rRNA sequences (Logares et al. 2007). However, the two species could be separated based on cytochrome b mitochondrial DNA sequences and Amplified Fragment Length Polymorphism (AFLP) (which operates on the entire genome). This indicates a case of rapid adaptive evolution, but also emphasizes the need to use a combination of molecular markers. Drettman et al. (2003a) showed that a multilocus genealogical approach in the fungal genus Neurospora allowed to identify traditional biological species. Another important finding was that they could show that phylogenetic divergence could precede reproductive EASILY COLONISE NEW WATER BODIES?<br/>
or /> An assumption of the cosmopolitan view is that all microorganisms disperse easily and have a high environmental tolerance. The basis for this view is studies that show a huge number of microorganisms being transported in the air (Griffin et al. 2002) or water (e.g. Lindstrom et al. 2006). However, Hughes Martiny et al. (2006) found no clear correlation between body size and dispersal capacity and concluded that while some microbes disperse widely, others may have limited dispersal.<br/>
 /> Dispersal of planktonic protists and algae can occur through three major mechanisms; by water, air, or organisms (Kristiansen 1996). Coleman (1996), for instance, showed distinct genetic groups of a green alga, which showed patterns correlating to bird migratory patterns. Although many microorganisms undisputedly disperse far by birds, to date, there is no evidence on how many and which kinds of species actually survive dispersal by air or organisms. In a recent experiment, we were able to show that dinoflagellate vegetative cells were not able to survive the passage through a bird gut, while their resting cysts survived and germinated (Weissbach and Rengefors, unpubl), <br/> /> Another key concern with the cosmopolitan view is that it is assumed that dispersal leads to colonisation of new habitats. However, the findings of Maguire (1963) suggest that only a limited number of the small aquatic species being dispersed actually colonise new habitats. De Meester (2002) argues that despite high ability to disperse and rapid colonisation of some limnic zooplankton, it is very unlikely that it will also colonise the new habitat, since the endemic populations likely will have an adaptive advantage over the coloniser. De Meester refers to this as the Monopolisation Hypothesis. Further, the presence of a large resting propagule bank provides a buffer against newly invading genotypes enhancing the priority effect. Many phytoplankton species, including dinoflagellates, produce long-lived resting propagules, indicating that the Monopolisation Hypothesis may apply to phytoplankton as well. c /> pr /> SPECIATION IN MICROORGANISMS<br/>br /> The adherers of the cosmopolitanism view argue that because there are no geographic barriers to dispersal of microorganism, allopatric speciation is rare in unicellular organisms due to the homogenising action of gene flow. However, allopatric speciation is only one of the recognised speciation modes. We argue that genetic divergence and ultimately speciation in unicellular organisms, such as freshwater phytoplankton is more frequent and rapid than claimed. First of all, due to their shorter generation time, speciation can be quicker in microbes. Moreover, the large population sizes of microbes can harbour a very high genetic variability upon which natural selection can act, leading to a rapid adaptive divergence. Hairston et al. (1999) established that rapid evolution may occur within certain systems or species due to strong selection pressure. Likewise, Whitaker et al. (2003) showed recent divergence in microorganisms in geothermal spring. <br/>br /> Secondly, many eukaryotic phytoplankton species, such as the dinoflagellates, have a life cycles promoting rapid genetic differentiation. These life cycles consist of alternating asexual and sexual reproduction. Speciation due to strong local adaptation is hypothesised to be more common in species with alternating sexual and asexual reproduction (De Meester et al. 2002). Due to the combination of sexual recombination generating genetic diversity, and clone formation propagating the entire genome, certain traits are more likely to become permanent in these species.<br/>br/>

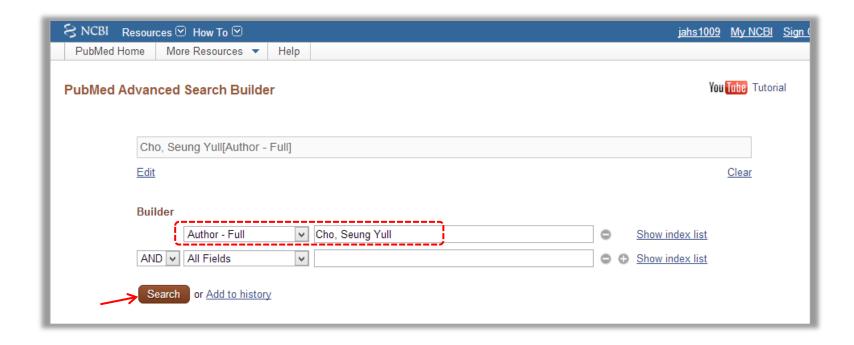
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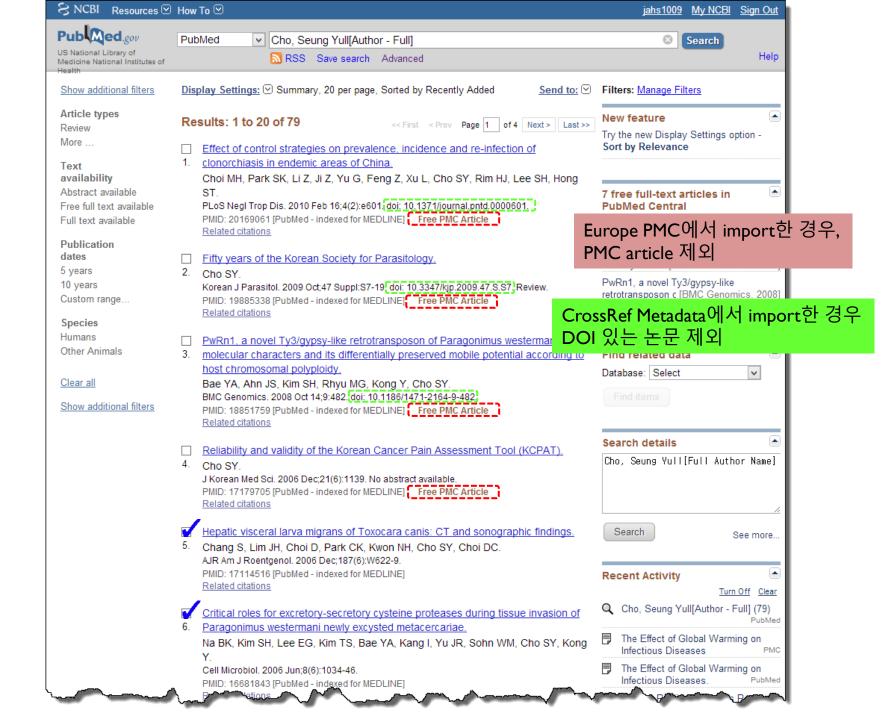
#### GlycoSuiteDB a glycan structure repository catalogue

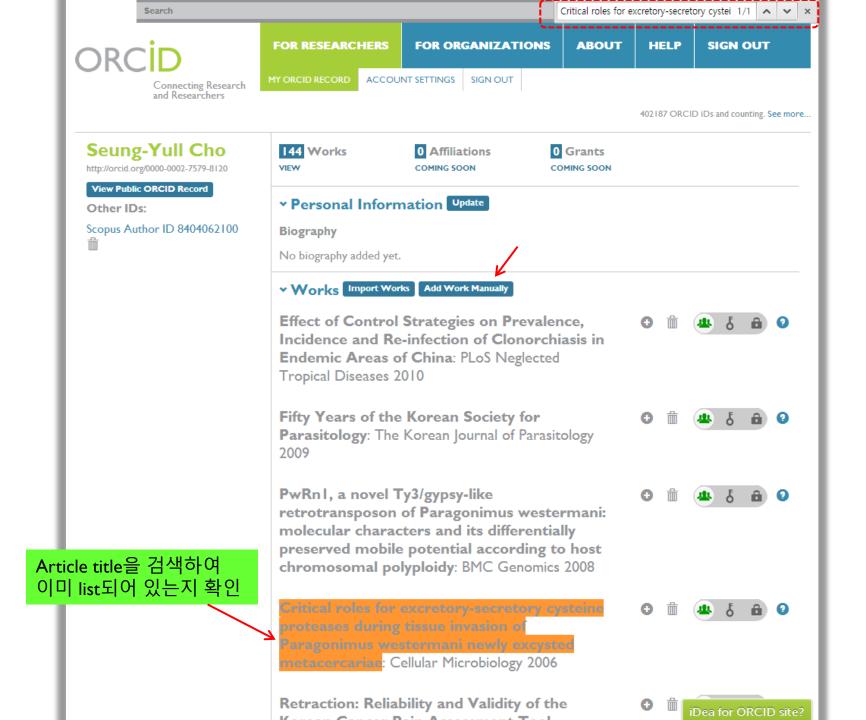
The GlycoSuite database (GlycoSuiteDB) is an annotated and curated relational database of glycan structures and is a product of Tyrian Diagnostics Ltd (formerly Proteome Systems Ltd). Currently, the database contains most published O-linked glycans, and N-linked glycans in the literature from the years 1990-2005. For each structure, information is available concerning the glycan type, linkage and anomeric configuration, mass and composition. Detailed information is provided on native and recombinant sources, including

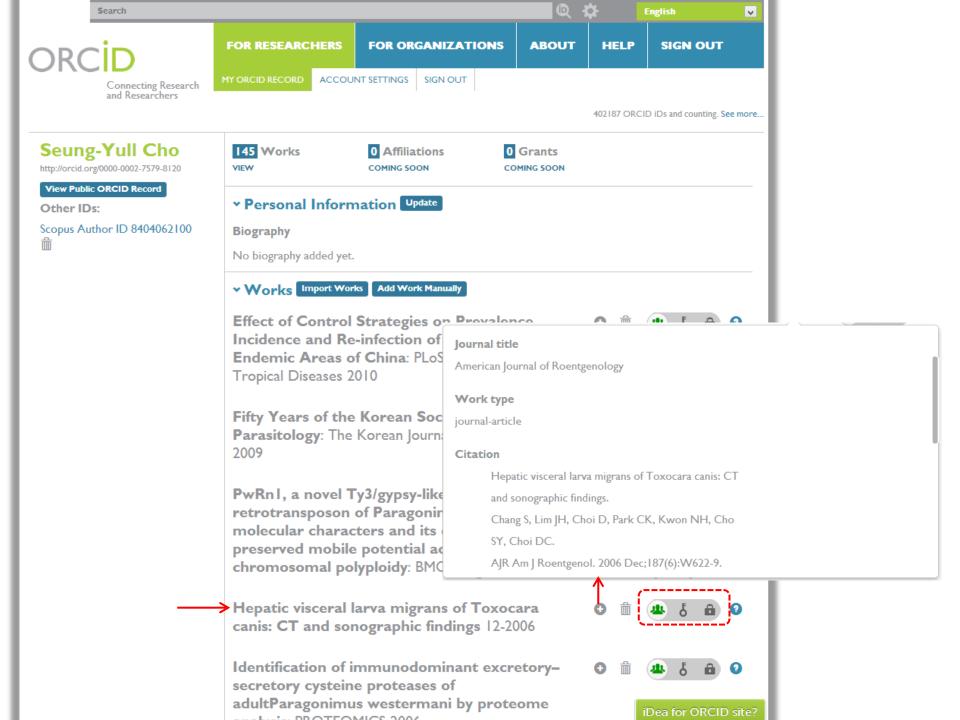


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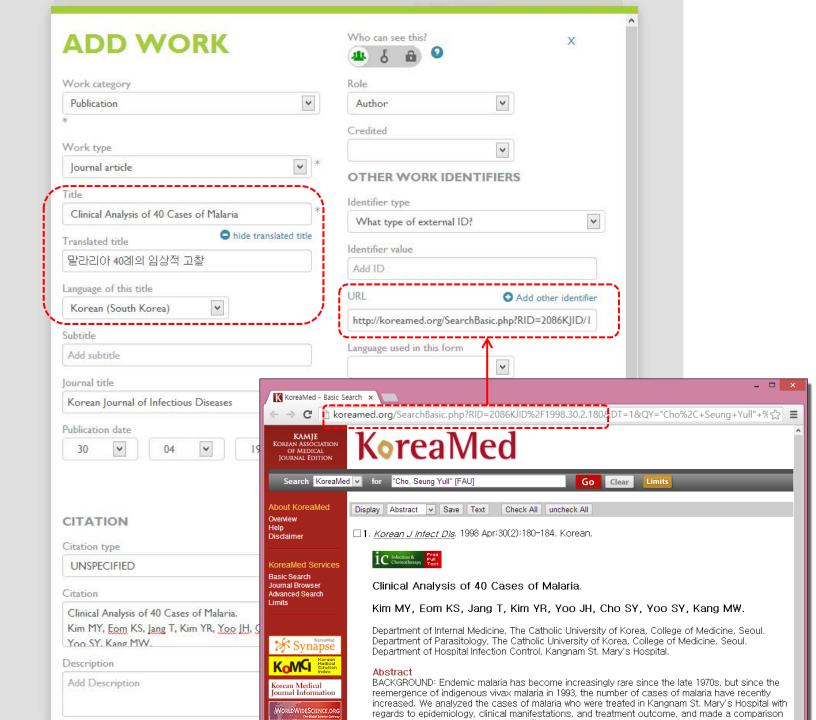


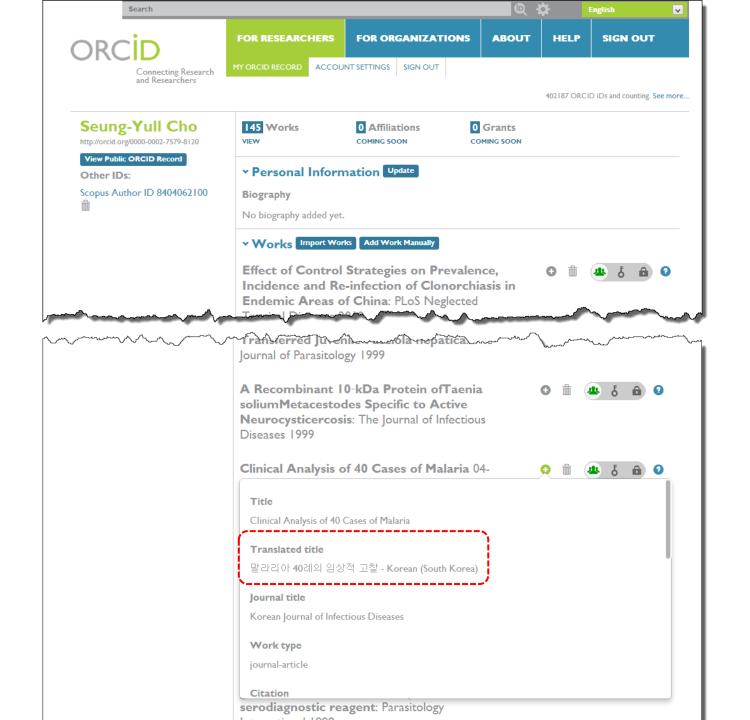
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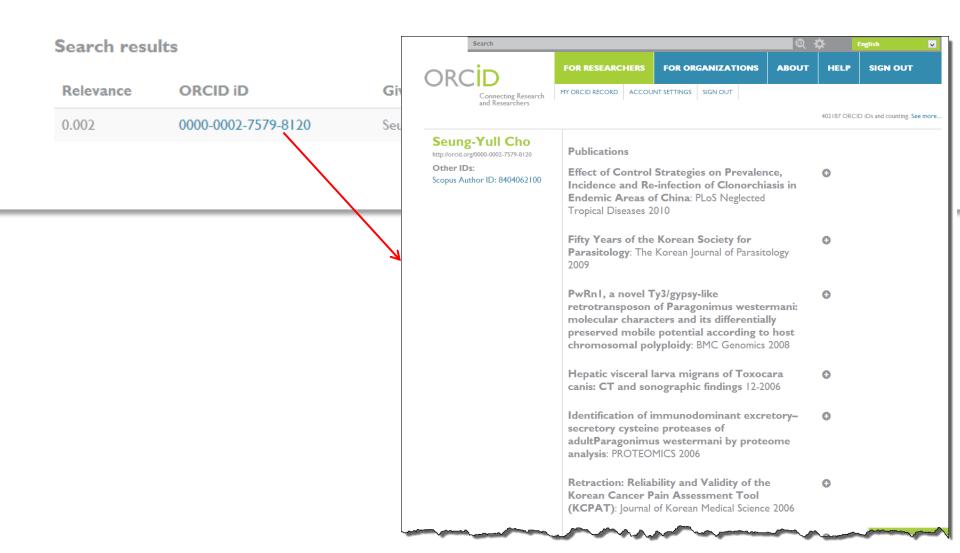


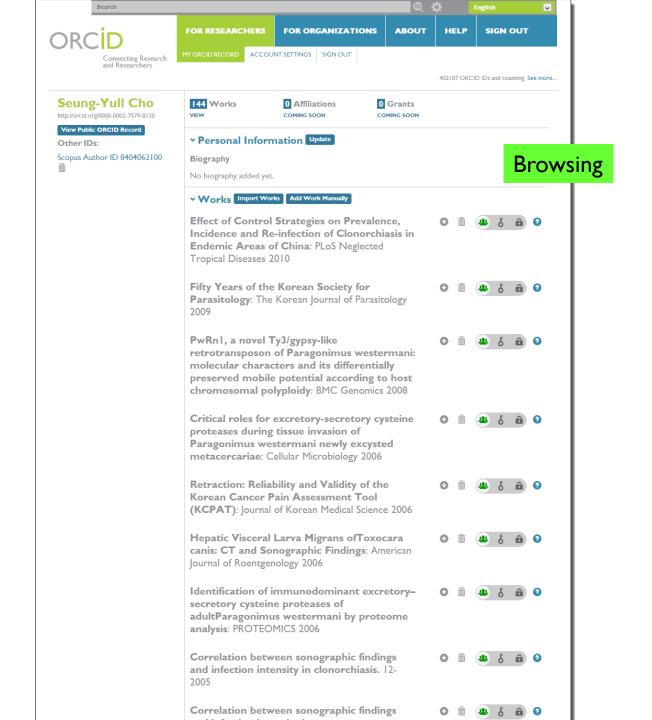
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China: PLoS Neglected Tropical Diseases 2010

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DOI: 10.1186/1471-2164-9-482 URL: http://www.scopus.com/inward/record.url? eid=2-s2.0-55949083823&partnerID=MN8TOARS

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## CURRICULUM VITAE

## Personal data:

Name:

Date of birth: October 21<sup>st</sup>, 1968 Nationality: Portuguese

Institutional address:

Telephone: Email:

Web-page: <a href="http://www.eeg.uminho.pt/economia/fyveiga">http://www.eeg.uminho.pt/economia/fyveiga</a>
URL at Ideas: <a href="http://ideas.repec.org/e/pve39.html">http://ideas.repec.org/e/pve39.html</a>
ORCiD: <a href="http://orcid.org/0000-0002-6116-1479">http://orcid.org/0000-0002-6116-1479</a>

Researcher ID: http://www.researcherid.com/rid/B-1784-2008

## Academic degrees:

- . Ph.D. in Economics at the University of South Carolina, USA, on l
- Undergraduate degree in International Relations, (Branch of Political Relations), University of Minho, July 1991.

## Professional experience:

- Full Professor, Department of Economics, University of Minh 2010. Associate Professor, from November 2003 to March Professor, from July 1998 to November 2003. Teaching Assistan 1991 to June 1998.
- Visiting scholar, Department of Economics and Clare Hall Colleg Cambridge, UK, from October 2005 to July 2006.
- Teaching Assistant, University of South Carolina, USA, from . March 1998.

## Recent administrative tasks at the University of Minho:

- Member of the General Council of the University of Minho, since.
- Director of the Economic Policies Research Unit (NIPE), from Se March 2004 and from March 2007 to April 2013.
- Director of the PhD Program in Economics, from May 2009 to Jun

# Editorial Responsibilities:

Editorial Board, European Journal of Political Economy, Since Ja

## Fields of research:

- International money and finance;
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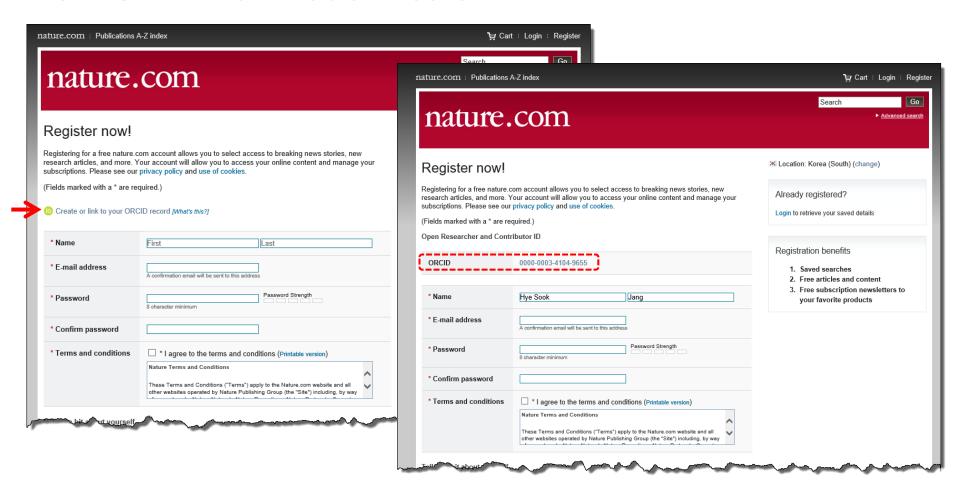
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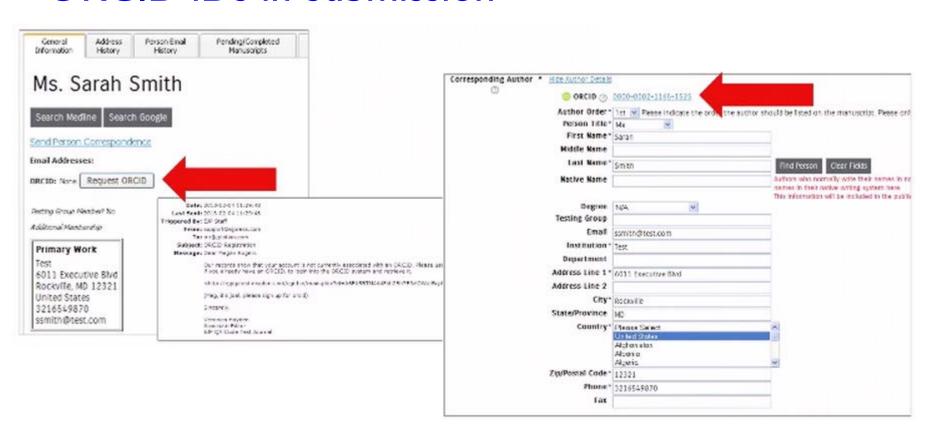
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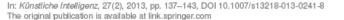
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# Co-constructing Grounded Symbols – Feedback and Incremental Adaptation in Human–Agent Dialogue

Hendrik Buschmeier · Stefan Kopp

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Abstract Grounding in dialogue concerns the question of how the gap between the individual symbol systems of interlocutors can be bridged so that mutual understanding is possible. This problem is highly relevant to human-agent interaction where mis- or non-understanding is common. We argue that humans minimise this gap by collaboratively and iteratively creating a shared conceptualisation that serves as a basis for negotiating symbol meaning. We then present a computational model that enables an artificial conversational agent to estimate the user's mental state (in terms of contact, perception, understanding, acceptance, agreement and based upon his or her feedback signals) and use this information to incrementally adapt its ongoing communicative actions to the user's needs. These basic abilities are important to reduce friction in the iterative coordination process of co-constructing grounded symbols in dialogue.

Keywords symbol grounding · dialogue · feedback · adaptation · human-agent interaction

## 1 Introduction

The classical 'symbol grounding problem' [15] refers to the constitution of meaning for a symbolic token through linkage to experiential knowledge about some external world. An agent links a symbolic token such as, for example, APPLE to its meaning by associating it to the perceptual category of

H. Buschmeier · S. Kopp Sociable Agents Group, CITEC, Biele feld University PO-Box: 100131, 33501 Bielefeld, Germany E-mail: hbuschme@uni-bielefeld.de ORCID: http://orcid.org/0000-0002-9613-5713

S. Kopp E-mail: skopp@uni-bielefeld.de ORCID: http://orcid.org/0000-0002-4047-9277 apple-like objects. But what happens when two such agents come to interact through dialogue?

Dialogue is carried out to a large extent by exchanging linguistic symbols using speech, and can be seen as a symbol system in the classical sense. The symbolic tokens of a language (i.e., its words) are arbitrary and fortuitous [8, p. 198] as is common in symbol systems, but at the same time they are also conventionalised within a speech community. Despite being conventionalised, the symbol systems of any two interlocutors-even within the same speech communitydiffer because of variations in live experience. The same symbolic token can evoke at least slightly different meanings, potentially leading to miscommunication and misunderstanding. In addition, language use cannot draw upon conventions all the time. Often, a conventionalised symbol to denote a certain meaning does not readily exist, making it necessary for communicating agents to create new symbols and establish them as an 'ad hoc convention.' Further, the meaning of words is often too vague or coarse, and the semantics of composite symbols cannot always be derived solely from syntax. Language use thus has a pragmatic dimension that is not part of its lexical and compositional semantics (e.g., reference, deixis, the cooperative principle). Utterances must be 'situated,' i.e., interpreted in their context (previous discourses, the external situation), to determine their intended

Given this, how can agents participating in dialogue be sure that they share their individual 'meaning'—or at least that it is sufficiently similar—to understand each other? This is the 'grounding' problem in dialogue [11,9], which concerns the question of how interlocutors can actually establish 'common ground' in a conversational interaction. Solving this task requires interlocutors to continuously cooperate and to coordinate with each other. This problem poses key challenges for artificial agents (e.g., embodied conversational agents or robots), most of which remain unsolved.

# Journal of Biomedical Semantics



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## PAV ontology: provenance, authoring and versioning

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Paolo Ciccarese (paolo.ciccarese@gmail.com)
Stian Soiland-Reyes (soiland-reyes@cs.manchester.ac.uk)
Khalid Belhajjame (Khalid.Belhajjame@cs.manchester.ac.uk)
Alasdair JG Gray (alasdair.gray@manchester.ac.uk)
Carole Goble (carole.goble@cs.manchester.ac.uk)
Tim Clay (tim\_clark@haryaxt.edu)

# PAV ontology: provenance, authoring and versioning

Paolo Ciccarese1,2\*,†

\* Corresponding author

Email: paolo.ciccarese@gmail.com

URL: http://orcid.org/0000-0002-5156-2703

Stian Soiland-Reyes<sup>3,†</sup>

Email: soiland-reyes@cs.manchester.ac.uk
URL: http://orcid.org/0000-0001-9842-9718

Khalid Belhajjame<sup>3</sup>

Email: Khalid.Belhajjame@cs.manchester.ac.uk
URL: http://orcid.org/0000-0001-6938-0820

Alasdair JG Grav<sup>3</sup>

Email: alasdair.gray@manchester.ac.uk

URL: http://orcid.org/0000-0002-5711-4872

Carole Goble<sup>3</sup>

Email: carole.goble@cs.manchester.ac.uk

URL: http://orcid.org/0000-0003-1219-2137

Tim Clark<sup>1,2,3</sup>

Email: tim\_clark@harvard.edu

► URL: http://orcid.org/0000-0003-4060-7360

## Abstract

#### Background

Provenance is a critical ingredient for establishing trust of published scientific content. This is true whether we are considering a data set, a computational workflow, a peer-reviewed publication or a simple scientific claim with supportive evidence. Existing vocabularies such as Dublin Core Terms (DC Terms) and the W3C Provenance Ontology (PROV-O) are domain-independent and general-purpose and they allow and encourage for extensions to cover more specific needs. In particular, to track authoring and versioning information of web

Department of Neurology, Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02114, USA

<sup>&</sup>lt;sup>2</sup> Harvard Medical School, 25 Shattuck Street, Boston, MA 02115, USA

<sup>&</sup>lt;sup>3</sup> School of Computer Science, University of Manchester, Oxford Road, Manchester M13 9PL, UK

<sup>&</sup>lt;sup>†</sup> Equal contributors.

# **PDF**

## TECHNICAL CONTRIBUTION

# Co-constructing Grounded Symbols—Feedback and Incremental Adaptation in Human–Agent Dialogue

Hendrik Buschmeier · Stefan Kopp

Received: 23 October 2012 / Accepted: 8 March 2013 / Published online: 28 March 2013 © Springer-Verlag Berlin Heidelberg 2013

Abstract Grounding in dialogue concerns the question of how the gap between the individual symbol systems of interlocutors can be bridged so that mutual understanding is possible. This problem is highly relevant to human-agent interaction where mis- or non-understanding is common. We argue that humans minimise this gap by collaboratively and iteratively creating a shared conceptualisation that serves as a basis for negotiating symbol meaning. We then present a computational model that enables an artificial conversational agent to estimate the user's mental state (in terms of contact, perception, understanding, acceptance, agreement and based upon his or her feedback signals) and use this information to incrementally adapt its ongoing communicative actions to the user's needs. These basic abilities are important to reduce friction in the iterative coordination process of co-constructing grounded symbols in dialogue.

Keywords Symbol grounding · Dialogue · Feedback · Adaptation · Human-agent Interaction

## 1 Introduction

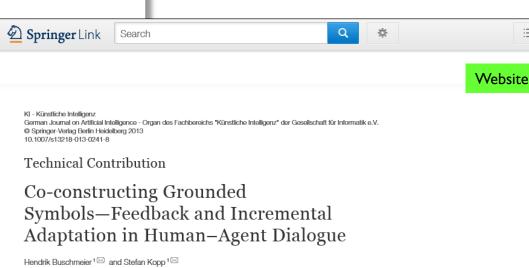
The classical 'symbol grounding problem' [15] refers to the constitution of meaning for a symbolic token through linkage to experiential knowledge about some external world.

H. Buschmeier (☑) · S. Kopp
Sociable Agents Group, CITEC, Bielefeld University,
PO-Box: 1001 31, 33501 Bielefeld, Germany
e-mail: hbuschme@uni-bielefeld.de.
ORCID: http://orcid.org/0000-0002-9613-5713
S. Kopp

e-mail: skopp@uni-bielefeld.de ORCID: http://orcid.org/0000-0002-4047-9277 An agent links a symbolic to PLE to its meaning by associ gory of apple-like objects. Bu agents come to interact throug

Dialogue is carried out to linguistic symbols using speed system in the classical sense. guage (i.e., its words) are arbi as is common in symbol syst are also conventionalised wit spite being conventionalised, interlocutors-even within the differ because of variations symbolic token can evoke at ings, potentially leading to n derstanding. In addition, lan conventions all the time. Ofte to denote a certain meaning it necessary for communicati bols and establish them as an the meaning of words is ofter semantics of composite syml solely from syntax. Language mension that is not part of its mantics (e.g., reference, dei) Utterapees must be 'situated. text (previous discourses, the mine their intended meaning.

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(1) Sociable Agents Group, CITEC, Bielefeld University, PO-Box: 10 01 31, 33501, Bielefeld, Germany

□ Hendrik Buschmeier (Corresponding author)
 □ Hendrik Buschme@un bielefactde
 □ URL: http://orcid.org/0000-0002-9613-5713

 □ Stefan Kopp
 □ Email: skopp@uni-bielefeld.de
 □ URL: http://orcid.org/0000-0002-4047-9277

Accepted: 8 March 2013 Published online: 28 March 2013

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# Abstract

Grounding in dialogue concerns the question of how the gap between the individual symbol systems of interlocutors can be bridged so that mutual understanding is possible. This problem is highly relevant to human-agent interaction where mis- or non-understanding is common. We argue that humans minimise this gap by collaboratively and iteratively creating a shared conceptualisation that serves as a basis for negotiating symbol meaning. We then present a computational model that enables an artificial conversational agent to estimate the user's mental state (in terms of contact, perception, understanding, acceptance, agreement and based upon his or her feedback signals) and use this information to incrementally adapt its ongoing

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### Phagocytosis and Endocytosis of Silver Nanoparticles Induce Interleukin-8 Production in Human Macrophages

Seungjae Kim and In-Hong Choi<sup>65</sup>

Department of Microbiology, Brain Korea 21 Project for Medical Science, Institute for Immunology and Immunological Diseases, Yonsei University College of Medicine, Seoul, Korea.

\*Corresponding author: Dr. In-Hong Choi, Department of Microbiology, Yonsei University College of Medicine, 50 Yonsei-ro, Seodaemun-gu, Seoul 120-752, Korea. Tel: 82-2-2228-1821, Fax: 82-2-392-

Received February 17, 2012; Revised February 21, 2012; Accepted February 21, 2012.

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Phagocytosis or endocytosis by macrophages is critical to the uptake of fine particles, including nanoparticles, in order to initiate toxic effects in cells. Here, our data enhance the understanding of the process of internalization of silver nanoparticles by macrophages. When macrophages were pre-treated with inhibitors to phagocytosis, caveolin-mediated endocytosis, or clathrin-mediated endocytosis, prior to exposure to silver nanoparticles, Interleukin-8 (IL-8) production was inhibited. Although cell death was not reduced, the inflammatory response by macrophages was compromised by phagocytosis and endocytosis inhibitors.

Since human exposure to nanomaterials has increased dramatically, 1 concerns for the

Keywords: Silver nanoparticles, macrophages, endocytosis, phagocytosis, IL-8.

### INTRODUCTION

possible harmful effects of nanoparticles on cells have been raised. From their entry sites, such as the skin or respiratory tract, nanoparticles can translocate to other parts of the body. 33 Macrophages are active phagocytic cells that are present in many tissues as resident macrophages, such as alveolar macrophages in the lungs or skin macrophages. The process of internalization of nanoparticles by phagocytic cells can be divided into phagocytosis/macropinocytosis, receptor-mediated endocytosis, and passive penetration. Phagocytosis and macropinocytosis are mediated by actin polymerization that causes cell membrane ruffling and can be inhibited by cytochalasin D.6 Endocytosis can be divided to clathrin-dependent endocytosis and caveolae-dependent endocytosis. Clathrin-dependent endocytosis can be inhibited by chlorpromazine, a cationic amphiphilic drug that prevents the recycling of clathrin. Caveolae-dependent endocytosis can be inhibited by nystatin.9 an antibiotic and sterol-binding agent that acts to remove membrane cholesterol, which is important for both the maintenance and

Therefore, our study was conducted to determine which internalization mechani-sm(s) is important to cellular uptake and cellular activation following exposure of macrophages to 5-nm silver nanoparticles. Using macrophages treated with silver nanoparticles at a concentration that does not induce cell death, Interleukin-8 (IL-8) production was examined. These results provide an understanding of the influence of silver nanoparticles on macrophages during the induction of immune responses or

sealing-off of the plasma membrane of caveolae.

Silver nanoparticles suspended in water were provided by I&C (5-nm diameter, Seoul, Korea). Nanoparticles were round, polyvinylpyrrolidone-coated, and tested for contaminating endotoxin using a Pyrogene Recombinant Factor C Assay (Cambrex Bioscience, Walkersville, MD, USA), all of which were found as negative for endotoxin (less than 0.01 EU/mL). For cell culture, silver nanoparticles were prepared in RPMI 1640 medium with 2 mM L-glutamine supplemented with 10% fetal bovien serum (FBS), penicillin, and streptomycin (100 IU/mL each). Primary particle diameters were determined by transmission electron microscopy (TEM; model JEM-1011; JEOL, Peabody, MA, USA).

The human macrophage cell line U937 was cultured in RPMI 1640 containing 10% FBS and streptomycin/penicillin (100 IU/mL each) at 37°C in a humidified 5% CO2 incubator. Although endotoxin was not detected in the silver nanoparticles used in this study, polymyxin B (InvivoGen, San Diego, CA, USA) was added at 10 ng/mL as an endotoxin neutralizer. U937 cells were treated for 1 hour with chlorpromazine (C8183; Sigma, St. Louis, MO, USA), cytochalasin D (C8273; Sigma), or nystatin (N6261; Sigma) at indicated concents sions prices, the addition of the nanoparticles. At the

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ORCID

In-Hong Choi http://orcid.org/0000-0001-9851-0137



# **Personal Information**

FOR RESEARCHERS

http://orcid.org/0000-0001-9851-0137

Keywords: Immunology

In-Hong Choi

Other IDs:

Scopus Author ID: 7401471669

SIGN IN REGISTER FOR AN ORCID ID

# **Biography**

Professor

Department of Microbiology

Yonsei University College of Medicine Seoul

**Publications** 

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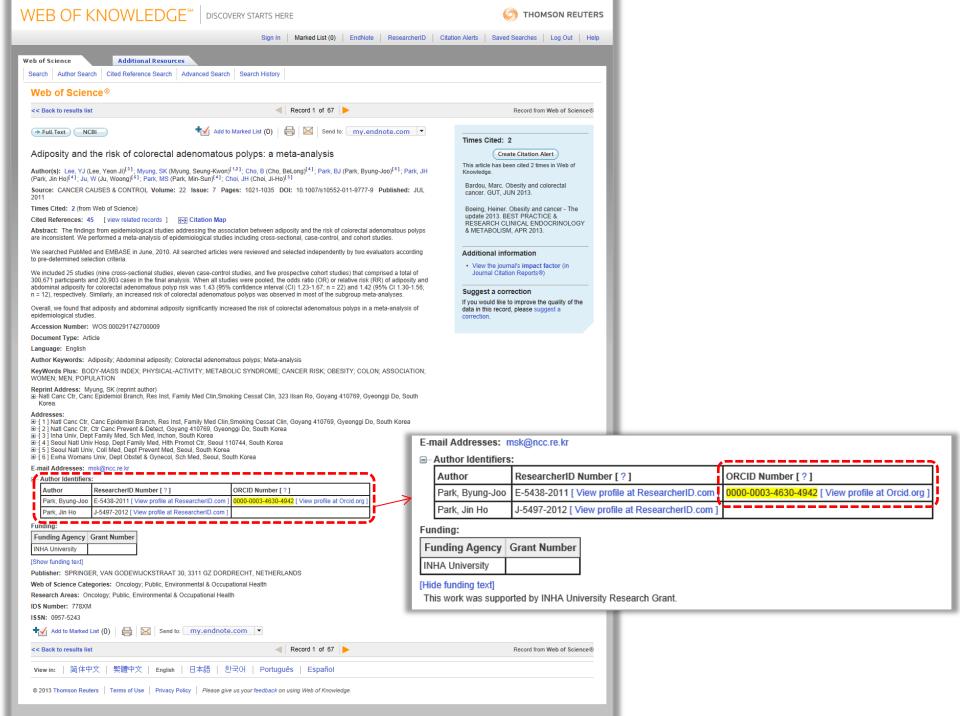
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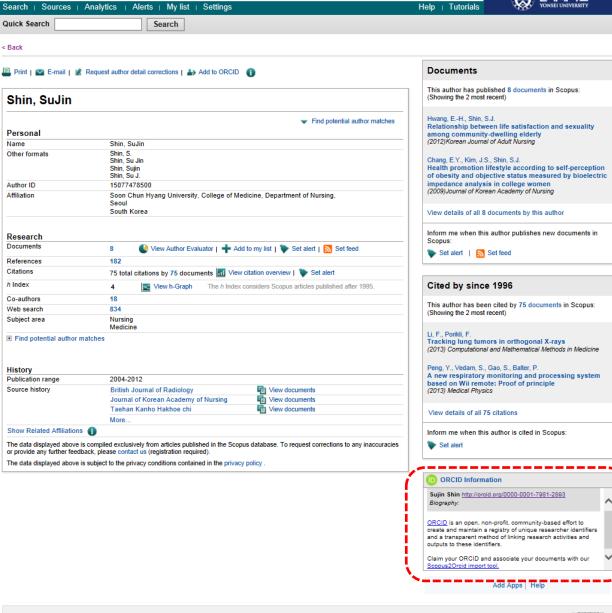
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- 3. Use your ORCID iD

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4. Display ORCID iDs in Publication

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