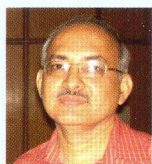


## FROM THE DESK OF:



**Dr. Gulshan Wadhwa,**

*Joint Director, Bioinformatics Division & Information Officer,  
Apex Biotechnology Information Centre (BTIC), Department of Biotechnology*

The DeLCON Consortium has been setup by the Department of Biotechnology (DBT), Ministry of Science and Technology, GOI to provide faster access to scientific literature at the click of a mouse through the use of electronic databases of full text journals to the research and academic community in the country in the area of Life Sciences, Biotechnology, Bioinformatics. The concept of DeLCON (DBT Electronic Library Consortium) originated at "DBT Director's Meeting" held at "Rajiv Gandhi Centre for Biotechnology (RGCB), Thiruvananthapuram" in the month of 'January 2008'.

The 'DeLCON Consortium Programme has grown leaps and bounds since its inception in the year 2009. The DeLCON programme which was initially started with 10 DBT autonomous institutions and has grown over the years. Presently, 16 DBT institutions and 18 NER institutions and universities and the members institutions are constituent of this Consortium. The DeLCON Consortium provides current as well as archival access to more than 1171 core, peer reviewed journals in different disciplines from the 21 publishers worldwide through online means. This is providing them faster access and in-turn saving their time, which they can better invest in doing the actual research. It facilitates access to high quality e-resources to DBT and NER research institutions in the country to improve teaching, learning and research. It is a national initiative for providing access to scholarly electronic resources including full-text and bibliographic databases in all the life science subject disciplines to DBT Institutional community. The aim of DeLCON was to maximize access to a large number of high impact 'Life Science' journals to Scientists in the member institutions. Elsevier is one of the largest publisher associated with DeLCON and has constantly supported the consortium members in improving research quality through regular engagement activities like trainings, author workshops, awareness sessions etc.

I congratulate the DeLCON Consortium Coordinator for the new initiative of publishing this Newsletter in collaboration with Elsevier and I wish all the best.

## Eight questions to test your global research savvy:

Elsevier's big data and analytics reveal surprising facts about the complex and multifaceted international research landscape. Elsevier's large online platforms, including **Scopus**, **ScienceDirect** and **Mendeley**, provide comprehensive data about the global research landscape. The OECD, UNESCO, WIPO, and the European Commission provide further context to these data. Using these sources, we have drawn nine important facts among the top 77 most prolific countries in research output

### 1. Which country invests the largest proportion of its GDP in R&D?

**South Korea (4 percent).** Close to 80 percent of its R&D expenditure is performed by the Business Enterprise sector. This is likely to be linked to the fact that South Korea is home to many R&D intensive companies in the world such as Samsung and LG.

### 2. Which country has the largest percentage of its population as researchers?

**Israel.** In 2012, 0.83 percent of Israel's population were researchers, more than twice the proportion of the United States.

### 3. Which country has the largest proportion of female researchers?

**Latvia**, followed by **Lithuania** have the largest proportion of female researchers. Infact more than half of their researchers are women. For most of the other European countries, the proportion is between 20 percent and 40 percent, but it varies across fields of research. Germany for example: in 2014, 56.6 percent of Germany's researchers in Veterinary Science are female, while in Computer Science the corresponding number is only 15.3 percent. In general, Agriculture, Medicine, and Health-related subject areas have the highest proportion of female researchers. Subject areas in the Natural Sciences and Engineering have the lowest proportions.

### 4. Which country's researchers are the most mobile internationally?

**Hong Kong, Luxembourg and Qatar (More than 90%).** By contrast, it is China whose research base is the least mobile, with nearly four-fifths of its researchers having published only under Chinese affiliations since 1996.

### 5. Which country produces the largest number of publications and receives the most digital reads and citations?

United States leads in annual scholarly output, followed increasingly closely by China. US and China also have the largest number of highly-cited papers and receive the most citations, and downloads on ScienceDirect. On the Mendeley platform, the UK still receives more reads than China, ranking after only the USA.

### 6. Which country has the largest proportion of interdisciplinary research?

India followed by China, even though the citation impact of their publications is still behind mature research countries such as the USA and UK.

### 7. Which country specializes the most in the following fields:?

Medical & Health Sciences- **Cuba**

In Engineering & Technology- **China** takes first place; perhaps this does not come as such a surprise when we realize what a large proportion of products found worldwide bear the words "made in China"

Natural Sciences- **Belarus**

Agricultural Sciences- **Kenya**

Humanities- **South Africa's** scholarly output is nearly 4 times as concentrated as that of the world in the Humanities.

### 8. Which country files the largest number of patent applications, and which country is granted the largest number of patents?

Not China nor the US. But it's **Japan** that has the largest number of patents granted. Although Japan's research base is more modest, its strong technological and innovative focus contributes to its success on this front.



At Elsevier we believe in maximising the outreach of information for an optimal use of research solution to supplement the research activities at your Institution.

For any training requests, please contact our Customer Consultants:

**Vishal Gupta:** [V.gupta@elsevier.com](mailto:V.gupta@elsevier.com)  
**Shubhra Dutta:** [S.dutta@elsevier.com](mailto:S.dutta@elsevier.com)



## New developments at NIPGR Library:



The National Institute of Plant Genome Research (NIPGR) is an autonomous institution aided by the DBT, Government of India, which undertakes research in basic and applied plant molecular biology and genomics. NIPGR has been a member of DeLCON since its inception and majority of requirements of e-resources are being met out mainly through DeLCON.

NIPGR Library subscribes to various scientific journals/databases/e-books through national and international publishers providing information on diverse aspects of plant biology, genetics, molecular biology and genomics.

NIPGR Library is fully automated through Libsys software (an integrated library management system). All the library books are barcoded and library members are issued barcoded library membership cards.

OPAC has been uploaded on the library webpage, which enables the users to search the online catalogue 24x7 from anywhere within the campus LAN.

NIPGR Library facilitates its digital library services for institute's researchers through 7 PCs set up in the library and through all computers in labs, hostels, campus residences connected through LAN. In addition to this, it also provides printing and photocopy services.

NIPGR Library compiles/updates various free online resources and the subscribed resources through DeLCON as well as at Institutional level on library webpage, which facilitates the researchers to access the concerned journal at the click of title.

NDKR- NIPGR Digital Knowledge Repository has been successfully established at the Institute with latest DSpace 5.0 OSS in 2015. URL of IR@NIPGR-NDKR is [http://www.nipgr.res.in/ir\\_ndkr.html](http://www.nipgr.res.in/ir_ndkr.html)

NIPGR library compiles compendium of institutes intellectual outputs (articles published in journals, conference proceedings, contributed chapters in books and book series) in hard bound form since 2009 and is available in the library for reference.

The NIPGR Library arrange/provide research articles/ references on specific requisitions received from individual scientists and students through DDL/DDS service of DELNET as well as through other organizations.

**Author: Dr. Vinod Kumar Sharma**  
Information Scientist & Librarian

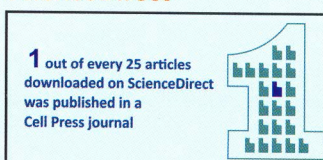
Dear Reader,  
Elsevier has dedicated this section of the newsletter to celebrate your achievements and success stories. So if you have any academic/research success story that you would like us to share on this platform, then please send in your articles to:  
[v.gupta@elsevier.com](mailto:v.gupta@elsevier.com)

## Cell Press delivers Immediacy, Utility, Quality and Impact

With a commitment to improving scientific communication, Cell Press publishes leading primary research and review journals covering the full and exciting spectrum of biology.

Benefits	Proof Of Concept
Assurance of Audience Reach	Every second Cell Press Article is downloaded.
Meets quality expectations	Highly cited research from community's top and award winning researchers.
Ability to Leverage Technology	Sophisticated platform facilitate the discovery and engagement of ground breaking research
Opportunity for extensive editorial collaboration	Editorial teams continually develop new ways for presenting research in dynamic formats

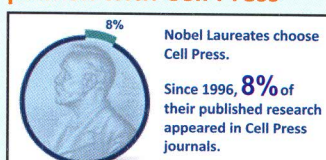
### Most read content on ScienceDirect



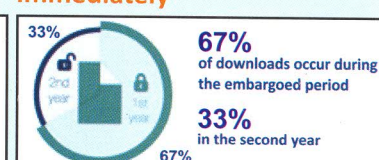
### Most Cited content on ScienceDirect



### The World's leading researchers choose to publish with Cell Press



### Readers demand Cell Press content immediately



CURRENT ACCESS THROUGH DeLCON	NEW TITLES
Chemistry & Biology	Cell Systems
Current Biology	Chem
Structure	Cell Chemical Biology
Cell	Molecular Therapy
Immunity	Trends in Cancer
Molecular Cell	
Neuron	
Developmental Cell	
Cancer Cell	
Cell Host & Microbe	
Cell Stem Cell	
The American Journal of Human Genetics	
Cell Metabolism	
Biophysical Journal	

If you wish to subscribe to the new titles, kindly recommend the same to your Institute's Nodal officer.

To get more information on these journals, kindly visit the website:  
<https://www.elsevier.com/books-and-journals/cell-press>



## Quiz Question:

Answer this question and win Elsevier goodies:

In the original research article titled “Modified mRNA Vaccines Protect against Zika Virus Infection” published in the journal “Cell” Volume 168, Issue 6, 9 March 2017, Pages 1114–1125, the author “Justin G. Julander” is from which university?

- a) Washington university School of Medicine, U.S.A
- b) University of Texas, U.S.A
- c) Utah State university, U.S.A
- d) Para State University, Brazil

Send in your answers to [v.gupta@elsevier.com](mailto:v.gupta@elsevier.com)

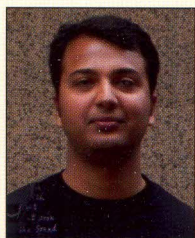
3 winners will be informed through mail & one page of the newsletter shall be dedicated to them in next edition.

## PREVIOUS ISSUE'S WINNERS:



**Vandana  
Thakur**

- **Institute:** International Centre for Genetic Engineering and Biotechnology (ICGEB, New Delhi)
- **Department:** Parasite Cell Biology Group
- **Principal Investigator:** Dr. Asif Mohammed
- **Area of Research**  
Pursuing PhD degree (final year) in malaria at the "International Centre for Genetic Engineering And Biotechnology" (ICGEB), New Delhi. Working on “Plasmodium Falciparum” under the guidance of Dr. Asif Mohammed, Parasite Cell Biology group. The lab is interested in organelle division and its related mechanism to find the novel drug targets.
- **Where do you see yourself in the next 5 years?**  
I see myself as a faculty of some reputed institute like NII, RCB, THISTI, ICGEB
- **What do you value the most in your life?**  
Ethics, moral values and self-respect.



**Sourav Sen  
Gupta**

- **Institute:** Rajiv Gandhi Centre for Biotechnology
- **Department:** MICROBIOME LABORATORY
- **Principal Investigator:** DR. G. BALAKRISH NAIK
- **Area of Research**  
Our laboratory works on understanding the dynamics of the extensive population of gut microbes in the context of nutrient assimilation, immune dysfunction and further systemic contributions. Some primary focus areas of research are: Understand geographic differences in gut microbiome structure of malnourished and healthy children, Understanding the functional consequences of gut microbiome immaturity and dysbiosis on nutritional status, Studying interventions like probiotics or fecal transplantations in addition to nutritional therapy in suitable experimental models to try and restore microbiome function in malnourished state, Use gut microbiome derived metabolomics profiles to devise bacterial interventions to compensate for specific nutritional deficiencies.
- **Where do you see yourself in the next 5 years?**  
I see myself as an independent investigator working on integrating and re-purposing microbiome data for use in clinical management of diseases like malnutrition, inflammatory bowel disease, lupus and others
- **What do you value the most in your life?**  
Family



**Mridusmita  
Choudhury**

- **Institute:** College of Veterinary Science, Assam Agriculture University
- **Department:** Animal Biotechnology
- **Principal Investigator:** Dr. Probodh Borah
- **Area of Research**  
Our lab work involves research in diverse areas of Molecular Biology, Microbiology, Biochemistry and Reproductive Biotechnology. We work on isolation and molecular characterization of different pathogenic micro organisms, protein expression and purification of immunogenic proteins, in vitro fertilization of cattle, molecular evaluation of cattle and goat oocytes. Handmade cloning for embryo production in goat is also being tried in our lab.
- **Where do you see yourself in the next 5 years?**  
I see myself as a successful biotechnologist and learning new skills that will benefit the organization I will be associated with and help me achieve my career goals. I am eager to experience new challenges and excited to invest five years time specializing in a career I find extremely interesting and motivating. By then I hope to be taking new responsibilities related to my field, possibly integrating any new technologies that have been invented between now and then.
- **One thing that you value the most in your life**  
Making a difference in life and living with integrity.



## Research Intelligence

Elsevier's Research Intelligence solutions answer the most pressing challenges researchers and research managers face, with innovative solutions that improve an institution's and individual's ability to establish, execute and evaluate research strategy and performance. Our solution supports the three primary pillars of strategic research management workflow by providing reliable data and information to facilitate better decision making.

### Enable research

- Develop strategy
- Identify & recruit researchers
- Secure funding
- Establish partnership
- Manage facilities

### Conduct research

- Search, discover, read, review
- Collaborate, network
- Experiment
- Analyze, synthesize

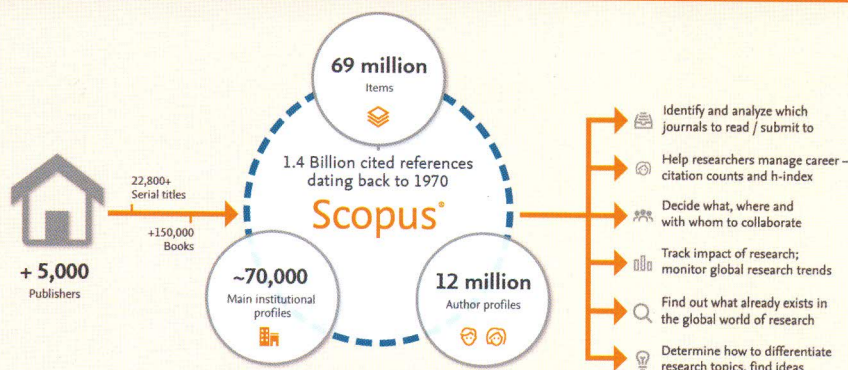
### Share research

- Manage data
- Publish and disseminate
- Commercialize
- Promote

## Scopus

Scopus is the largest abstract and citation database of peer-reviewed literature: scientific journals, books and conference proceedings. Delivering a comprehensive overview of the world's research output in the fields of science, technology, medicine, social sciences, and arts and humanities, Scopus features smart tools to track, analyze and visualize research.

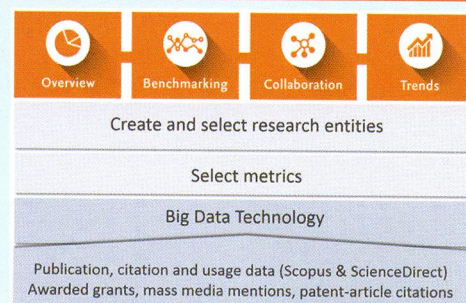
As research becomes increasingly global, interdisciplinary and collaborative, you can make sure that critical research from around the world is not missed when you choose Scopus. Research is a complex pursuit. More than ever, finding the right result is as important as uncovering trends, discovering sources and collaborators, and analyzing results to yield further insights. Scopus features smart tools to track, analyze and visualize research.



## SciVal

SciVal offers quick, easy access to the research performance of 8,500 research institutions and 220 nations worldwide.

A ready-to-use solution with unparalleled power and flexibility, SciVal enables you to visualize research performance, benchmark relative to peers, develop collaborative partnerships and analyze research trends.



## Pure

Pure facilitates an evidence-based approach to your institution's research and collaboration strategies, assessment exercises and day-to-day business decisions.

Pure aggregates your organization's research information from numerous internal and external sources, and ensures the data that drives your strategic decisions is trusted, comprehensive and accessible in real time. A highly versatile centralized system, Pure enables your organization to build reports, carry out performance assessments, manage researcher profiles, enable research networking and expertise discovery and more, all while reducing administrative burden for researchers, faculty and staff.