

# **Information Literacy and International Capacity Development Initiatives in Life Sciences: AGORA, OARE, HINARI, ARDI (Research4Life - R4L)**



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# Objectives

- **identify principal stakeholders**
- **describe structure of the four initiatives/programmes**
- **review past development**
- **identify activities related to information literacy**  
*(capacity building/development)*

## Four "sister" programmes

**Research4Life: AGORA, OARE, HINARI & ARDI**

- **AGORA (2003) – FAO (Food and Agriculture Organization)**
- **HINARI (2003) – WHO (World Health Organization)**
- **OARE (2006) – UNEP (United Nations Environment Programme)**
- **ARDI (2009) - WIPO (World Intellectual Property Organization)**

# In general

## **public-private partnership**

(UN agencies + universities + associations + technological partners + publishers + donors/foundations)

## **target groups:**

researchers, academics, librarians, students...

## **Principal aims of the initiatives**

- assist less developed countries in the transfer of knowledge
- facilitate access to principal information resources
- reduce knowledge gap (*UN's Millennium Development Goals - reduce the scientific knowledge gap between industrialized countries and the developing world*)
- capacity building/development and information literacy training

# Eligible countries criteria

**Countries (areas/territories) GNI above US\$ 1 trillion not eligible**

**Group A (free)** any of the criteria:

- UN Least Developed Country List (**LDC**) *and/or*
- Human Development Index (**HDI**) at/less than 0.50 *and/or*
- Total Gross National Income (**GNI**) at/less than US\$ 150 billion where HDI at/less than 0.63 and/or Gross National Income per capita (GNIpc) at/less than US\$ 1600

**Group B (fee)**

- Total GNI at/less than US\$ 1 billion *and/or*
- Total GNI at/less than US\$ 20 billion where GNIpc is at or less than US\$10,000 *and/or*
- Total GNI is at or less than US\$ 180 billion where HDI at/less than 0.67 and/or GNIpc at/less than US\$ 5000

# Some participants

## Group A (free access)

- Afghanistan
- Angola
- Bangladesh
- Benin
- Bhutan
- Bolivia (Plurinational State of) <sup>1</sup>
- Burkina Faso
- Burundi
- Mali
- Mauritania
- Micronesia (Federated States of)
- Mongolia
- Morocco
- Mozambique
- Myanmar
- Namibia

<sup>1</sup> Moving from Group A to B in 2013

<sup>2</sup> Newly eligible in 2013

<sup>3</sup> Reinstated in 2013

## Group B (low-cost access)

- Albania
- Algeria
- Armenia
- Azerbaijan
- Belize
- Bosnia and Herzegovina
- Botswana <sup>2</sup>
- Kosovo
- Marshall Islands
- Mauritius <sup>2</sup>
- Montenegro <sup>3</sup>
- Nauru
- Palau <sup>2</sup>

# Partners

## HINARI / WHO (2002)

**Publishers** 167 publishers  
(Adis - a Wolters Kluwer business ... World Health Organization)  
4 founding partners  
(Elsevier Science; John Wiley & Sons; Lippincott, Williams & Wilkins)

**Societies** 950 societies  
(Académie des Sciences de France ... Zoological Society of Japan)

## AGORA / FAO (2003)

**Publishers** 60 Publishers  
(Adis - a Wolters Kluwer business ... University of Toronto Press)  
6 Founding partners  
(Elsevier Science; John Wiley & Sons; Lippincott, Williams & Wilkins; Nature Publishing Group; Oxford University Press; Springer)

**Societies** 180 Societies  
(Acad. of Legal Studies in Business ... Zool. Society of Southern Africa)

## OARE / UNEP (2006)

**Publishers** 59 publishers  
(American Anthropological Association ... Worldwatch Institute)  
32 founding partners  
(American Assoc. for the Advancement of Science ... Univ. of Chicago Press)

**Societies** 543 Societies  
(Académie des Sciences de France ... Zoological Society of London)

## ARDI / WIPO (2009)

**Publishers** 17 publishers  
(American Assoc. for the Advancement of Science ... The Comp. of Biolog.)

Many other partners:  
Cornell Univ., Yale Univ.,  
Microsoft, UN agencies,  
donor agencies,  
foundations...

# HINARI / WHO (2002)

[العربية](#) | [中文](#) | [English](#) | [Français](#) | [Русский](#) | [Español](#)

**HINARI**  
Research in Health

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**HINARI**  
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[Promoting HINARI](#)  
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## HINARI Access to Research in Health Programme

HINARI Programme set up by WHO together with major publishers, enables low- and middle- income countries to gain access to one of the world's largest collections of biomedical and health literature. Up to 12,700 journals (in 30 different languages), up to 24,900 e-books, up to 70 other information resources are now available to health institutions in more than 100 countries, areas and territories benefiting many thousands of health workers and researchers, and in turn, contributing to improve world health.

Map of country breakdown 2013  
 png, 123kb

**Give to HINARI**  
 You can make a difference

**Portuguese HINARI website**  
[HINARI site in portuguese](#)

**Other Sister Programmes with**

[Access to Research4Life](#)

[Access to Global Online Research in Agriculture](#)  
[Brief video about AGORA](#)

**News**

- Bridging the information gap in agriculture
- Announcement on Research4Life Distance Learning Courses
- Research4Life Announces Winner of the Library Impact Competition
- Research4Life Reaches Milestone of 35,000 (5-Jun-2013)

**New Partners in 2013**


We are pleased to recognize the following new partners who have joined HINARI this year:

- African Journals Online
- British Institute of Radiology
- F1000 Research Ltd.
- Global Advances in Health and Medicine, LLC
- Lifescience Global



# AGORA / FAO (2003)

[English](#) | [Español](#) | [Français](#)

**Agora Main**

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[Register](#) [Login](#)

The AGORA program, set up by the Food and Agriculture Organization of the UN (FAO) together with major publishers, enables developing countries to gain access to an outstanding digital library collection in the fields of food, agriculture, environmental science and related social sciences. AGORA provides a collection of more than 3500 key journals and 3300 books to 2500 institutions in 116 countries. AGORA is designed to enhance the scholarship of the many thousands of students, faculty and researchers in agriculture and life sciences in the developing world.

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**OF INTEREST**

10th anniversary of Research4Life's AGORA agricultural program 18 September 2013, Rome. African librarians win the Research4Life competition. Listen to their interviews [\[Read more...\]](#)

AGORA 10th Anniversary Celebration 16 September 2013. AGORA

**USER FEEDBACK**

Uganda, March 2013 As a librarian trainee at my University, it was immediately impressed upon us that the key database for our agriculture specialty was AGORA. Thank you! [\[Read more...\]](#)

Yemen, December 2012 I want to thank the staff in AGORA to let our country to access to global online research and that led to developing the education in poor countries. [\[Read more...\]](#)

## AGORA JOURNALS


Click on the LOGIN button to access the full-text Journals

[See new video on the impact of AGORA in Burkina Faso.](#)

[Click here to view a brief video about AGORA.](#)

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Other sister programs with:



**NEW** – Contest highlights impact of collaboration between Research4Life and Librarians to power effective research [Read more](#)

# OARE / UNEP (2006)

Navigation: [About](#) | [Calendar](#) | [Multimedia](#) | [News](#) | [Outreach](#) | [Publications](#) | [Vacancies](#) | [中文](#) | [Español](#) | [Français](#)

United Nations Environment Programme  
environment for development

Climate Change | Disasters & Conflicts | Ecosystem Management | Environmental Governance | Harmful Substances | Resource Efficiency

## OARE

RESEARCH IN THE ENVIRONMENT

[About OARE](#) | [Access the Content](#) | [Eligibility](#) | [Register](#) | [Partners](#) | [Publisher's Statement](#) | [Training](#) | [FAQs](#)

Build the capacity of environmental professionals to manage fragile ecosystems, protect human health, and manage natural renewable resources more sustainably

[Join Our Network](#)

### Welcome


Online Access to Research in the Environment (OARE) is led by the United Nations Environment Programme (UNEP) in partnership with major publishers. The programme enables developing countries to gain access to one of the world's largest collections of

### Latest News

Research4Life: Distance learning: - The courses will be taught from 21 September to 25 October via the ITOCA Moodle Server. Send your registration request to: [moodle@itoca.org](mailto:moodle@itoca.org)

### Partners

# ARDI / WIPO (2009)



RESOURCES

WORLD INTELLECTUAL PROPERTY ORGANIZATION

ABOUT WIPO
IP SERVICES
PROGRAM ACTIVITIES
RESOURCES
NEWS & EVENTS

Home > IP Services > Patents > Access to Research for Development and Innovation (ARDI)

**ACCESS TO RESEARCH FOR DEVELOPMENT AND INNOVATION (ARDI)**

About ARDI

Journals

Books

Reference works

Eligibility

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Partners' Statement

FAQs

**RELATED LINKS**

Development Agenda

Patents

ASPI

## ARDI

### Research for Innovation

The Access to Research for Development and Innovation (ARDI) program is coordinated by the World Intellectual partners in the publishing industry with the aim to increase the availability of scientific and technical information to scholarly literature from diverse fields of science and technology, ARDI seeks to:

- reinforce the capacity of developing countries to participate in the global knowledge economy; and
- support researchers in developing countries in creating and developing new solutions to technical challenges.

Currently, 17 publishers provide access to nearly 10,000 journals, books, and reference works for 107 developing countries.

**NEWS ON ARDI**

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- [Winner of "Unsung Heroes" library impact competition announced](#) (Jul 1, 2013)
- [Research4Life reaches the milestone of 35,000 free and low cost peer reviewed resources for developing countries](#) (Jun 11, 2013)
- [Research4Life announces contest highlighting library impact on research in developing countries](#) (Mar 11, 2013)
- [Canadian Science Publishing becomes a publisher partner of ARDI](#) (Dec 18, 2012)
- [Research4Life Publisher Partners Commit to Free and Low Cost Access through 2020](#) (Nov 15, 2012)

# IL skills training in R4L

<b>Major subject</b>	<b>Content</b>
<b>Authentication</b>	Login, user names/passwords, protocols
<b>Bibliogr. elements</b>	Secondary / primary / fulltext sources Titles, abstracts, keywords
<b>Databases</b>	CAB Abstracts, PubMed (Medline), Environment Index (EBSCO), Scopus
<b>Search &amp; Browsing techniques</b>	Syntax/query; search criteria; Boolean logic, truncation, phrases; key concepts; basic/advanced search; search (wizard) boxes; specific fields (years, titles, languages); refining results (checking boxes, search limits)  Browsing by journal title A-Z lists, classification; subject categories
<b>Downloading</b>	Extraction of information; chapters; articles; fulltext (html/pdf)
<b>WWW search</b>	Google vs. Google Scholar (Boolean logic on the WWW)
<b>Copyrights</b>	Etiquette; institutional policies; intellectual property; allowed downloading; using approved passwords; dissemination of materials
<b>Authorship skills</b>	Structured scientific writing; composition of a paper; styles; plagiarism; citations/reference management; submission/peer review

# HINARI – training (modules)

## Training modules

These modules are the components of the 'Train the Trainers' course. The material is comprehensive overview of the program.

Each module contains a presentation and practical exercises.

### Module 1. HINARI: The Beginning

Basic Internet Concepts; E-Resources & Internet Searching; Health Internet Information

### Module 2. HINARI Website Interface & Resources

Registration & Login, Finding Journals, Articles and other Full-text Resources

### ↓ Module 3. HINARI Eligibility Registration - updated 02 2013

📎 ppt, 1.65Mb

### Module 4. HINARI/PubMed

Website Interface; Using Limits; MeSH; History, Access to Full-text articles; My NCBI

### Module 5. Using Reference Management Softwares

Mendeley, EndNote Web and Zotero Reference Management softwares

### Module 6. HINARI Next Steps

Tools for using the HINARI resources at your institution: Marketing Strategies for HINARI; Training Users on HINARI; Repackaging Health Information; Strategies for Managing Change for HINARI

### Module 7. HINARI Additional Resources

Other HINARI resources including Evidence-based practice and E-books plus Information Literacy and WHO Resources

### Module 8. HINARI Template for Group B countries

Suggested changes for workshops where some of the HINARI resources are not available

## Tip of the month

– PubMed update

HINARI Trainers Photo Album [📖](#)

Information Training and Outreach  
Center for Africa (ITOCA)



ITOCA training material [📖](#)

## Contact HINARI

World Health Organization

HIS/KMS/LNK

HINARI

20, Avenue Appia

CH-1211 Geneva 27

Switzerland

Fax: +41 22 791 4150

hinari@who.int

## HINARI – training (e.g. Authorship skills 1)

### **Authorship skills**

#### HINARI Authorship Skills

Modules developed to assist authors in HINARI eligible countries; includes 'How to Write a Scientific Paper/Structured Abstract', 'Copyright and Plagiarism', 'Strategies of Effective Writing' and a 'Web-Bibliography'.

The initial HINARI training package was a collaboration between TDR, HINARI, the National Library of Medicine (USA), Yale University Cushing-Whitney Medical Library (USA) and Paterson Institute for Cancer Research, Manchester (UK). Since 2007, the training package has been revised and expanded with the support of a grant from the Elsevier Foundation to the Librarians Without Borders®/Medical Library Association (USA) E-Library Training Initiative.

Programme > HINARI Training Materials

# HINARI – training (e.g. Authorship skills 2)

## Authorship Skills



Share



Print

↓ Authorship Skills Overview - updated 08 2010  
📄 doc, 33kb

### Module 1

↓ Authorship Skills How to Write a Scientific Paper - updated 09 2011  
📄 ppt, 1.77Mb

↓ Authorship Skills How to Write a Scientific Paper Workbook Activities - updated 08 2011  
📄 doc, 333kb

↓ Authorship Skills How to Write a Scientific Paper Workbook Activities AGORA and OARE - updated 08 2011  
📄 doc, 333kb

The exercises in this document are for HINARI, AGORA and OARE users.

### Module 2

↓ Authorship Skills Intellectual Property - updated 04 2011  
📄 ppt, 1.14Mb

↓ Authorship Skills Intellectual Property Workbook Activities - updated 08 2009  
📄 doc, 35kb

### Module 3

↓ Authorship Skills Strategies for Effective Writing - updated 04 2010  
📄 ppt, 943kb

↓ Authorship Skills Strategies for Effective Writing Workbook Activities - updated 04 2010  
📄 doc, 43kb

## AGORA - training (general)



**Agora Main**

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**Journals**

- By subject category
- By title
- By publisher
- Complete list

### Training

The training materials can be used as a part of a course

1. Exercises
2. Handouts
3. Presentations
4. AGORA Short Course



# AGORA - training (exercises)

## Exercises

### 01. Getting the Most from your Browser (MIE)

- [Advanced Worksheet](#) [,.pdf 83.34 KB]
- [Basic Worksheet](#) [,.pdf 55.88 KB]

### 02. Hardware and Software Requirements

- [Group discussion](#) [,.pdf 101.8 KB]

### 03. Electronic Library Resources: Introduction and Overview

- [Group discussion](#) [,.pdf 97.46 KB]

### 04. How to Use AGORA: Effective Strategies and Techniques

- [Participant's worksheet: Hands-on exercises and Group discussion](#) [,.doc 41.5 KB]

### 05. CAB Abstracts

- [Participant's Worksheet-Hands-on exercises](#) [,.doc 37.5 KB]

### 06. Publishers' Website Features

- [Hands-on exercises and Group discussion](#) [,.doc 48 KB]

### 07. Publishers' Website Features

- [Participant's Worksheet-Hands-on exercises](#) [,.doc 40 KB]

### 08. Other Electronic Resources

- [Participant's Worksheet-Hands-on exercises and Group discussion](#) [,.doc 40 KB]

### 09. Training Users on AGORA

- [Group discussion](#) [,.pdf 89.62 KB]

# AGORA - training (e.g. CABA, bibliographic databases)

## AGORA: Workshop Exercises and Activities

### Exercise 5: CAB Abstracts

#### Participant's Worksheet-Hands-on exercises

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In this session we will work as individuals or in pairs (depending on the number of participants and terminals available) and use the computers to practise using CAB Abstracts.

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#### Document Notes

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Author ITOCA

Date Last updated 31 October 2012

#### Summary

On completion of this session the learner will have:

1. Access full-text via CAB Abstracts
2. Refine search using key word search
3. Use of the search wizard

#### Step 1

##### 1.1. Exercise explained

With the guidance of the facilitator, individuals or pairs of workshop participants will work using the computer lab to practice navigating, retrieving citations, and utilising CAB Abstracts. Users should record the answers to any questions in the spaces provided on the handout. A short report back and discussion of using the resources will be conducted at the end of the session.

Hands-on duration: 20 minutes,  
Report back and discussion: 10 minutes.

# OARE - training (general)

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## Training Materials

Below, you can find training modules that help you learn not only how to open journals and download full-text articles from the OARE website, but also how to use OARE's search databases to find articles about specific topics in thousands of scientific journals from major publishers around the world.

- **Introduction to OARE (July 2013)**  
Format : PowerPoint (3.4 MB)  
: PDF (2.6 MB)  
Language: English
- **OARE Module 1: Introduction, Website and Training Material (July 2013)**  
Format : PowerPoint (5.8 MB)  
: PDF (4.6 MB)  
Language: English
- **OARE Email addresses (July 2013)**  
Format : PowerPoint (0.7 MB)  
: PDF (1 MB)  
Language: English
- **OARE Access Problems and Solutions for Full-text Articles (July 2013)**  
Format : PowerPoint (0.7 MB)  
: PDF (1 MB)  
: Word (8.8 MB)  
Language: English
- **OARE Overview for Presentations at Registered Institutions (July 2013)**  
Format : PowerPoint (4.2 MB)  
: PDF (3.4 MB)  
Language: English
- **OARE Short Course (July 2013)**  
Format : PowerPoint (9.9 MB)  
: PDF (7.2 MB)  
Language: English
- **OARE Short Course (July 2013)**  
Format : PowerPoint (0.3 MB)  
: PDF (0.5 MB)  
Language: English

## Partners



HINARI

## Training Materials

## OARE - training (e.g. SCOPUS)

The screenshot displays the Scopus search interface. At the top, the search query is "TITLE-ABS-KEY(ground water AND heavy metals AND mining)" and the total number of results is "Scopus: 159". The search results are listed in a table with columns for Document title, Author(s), Date, Source title, and Citations. The first result is "Studies on uranium recovery from inlet stream of Effluent Treatment Plant by novel 'In-House' sorbent" by Pal, S., Mishra, S., Satoji, S.K., Pandit, G.G., Tewari, P.K., and Purank, V.D., published in 2011 in the Journal of Radioanalytical and Nuclear Chemistry, pp. 1-7. The second result is "Biological recultivation with mining waste material and intake of heavy metals" by Selimbasic, V., Cipukovic, A., Donlagio, N., Stuhli, V., and Dozic, A., published in 2011 in the Journal of Environmental Protection and Ecology 12 (1), pp. 181-187. The third result is "Arsenic mining waste in the catchment aquifer (Spain)" and the fourth is "Geochemical distribution of trace elements in the vicinity of Boroo gold mine, Selenge".

The interface includes several filters and action buttons. The "Year" filter shows results for 2011 (4), 2010 (11), 2009 (15), 2008 (12), and 2007 (7). The "Author Name" filter lists authors like Blowes, D.W., Felix, M., Wilscher, S., Gammons, C.H., and Starke, S. The "Subject Area" filter shows Environmental Science (98), Earth and Planetary Sciences (63), Engineering (24), Agricultural and Biological Sciences (9), and Health Sciences (9). Action buttons for each result include "View at publisher", "Show abstract", and "Related documents".

At the top of the results section, there are buttons for "Download PDF", "Export", "Print", "Email", "Create bibliography", and "Add to My List". The "Sort by" dropdown is set to "Date (Newest)".

The **Scopus** database allows you to search about 75% of the scientific titles in OARE.

The **Scopus** search resulted in **159 citations** for journal articles and conferences. For each citation, there are the **View at Publisher, Show Abstract** and **Related documents** and **Limit to** choices.

For the search results, view the following options: **Download, PDF, Export, Print, Email, Create Bibliography** – plus the **Sort by**. Note also the **Web** and **Patents** Search options (explained below).

## Conclusions

- R4L: excellent, authoritative information resources
- Unique collaborative endeavor: empowering individuals and institutions in less developed countries
- Limitations: *researchers frequently not aware/not able to use, computers/connectivity, lack of trained information professionals*
- Capacity development and IL training - an indispensable element in the R4L initiatives, e.g. training of trainers
- Great opportunity for libraries
- Inclusion of IL into curriculum ("**ready to use**" sources are available, as well as training materials)
- Training materials: most elements of the *Information Literacy Competency Standards for Higher Education (ALA)*
- Enhancing local, regional AND global knowledge



  
Access to Global Online Research in Agriculture  
O'zbekiston, 2005  
  
Toshkent, Samarqand  
Iyun 2005

