

HINARI/AGORA/OARE/ARDI

Reducing great disparities in
scientific resources



Why is information important?

- Imagine you didn't have access to consumer magazines or other reliable sources of information when you went to buy a car, washing machine, lawn mower.
- Imagine you were an engineer trying to build a bridge and didn't have access to information about the breaking points for the materials you were using.
- Imagine you were trying to grow vegetables to sell in your market without knowing anything about the plants most resistant to pests in your neighborhood.

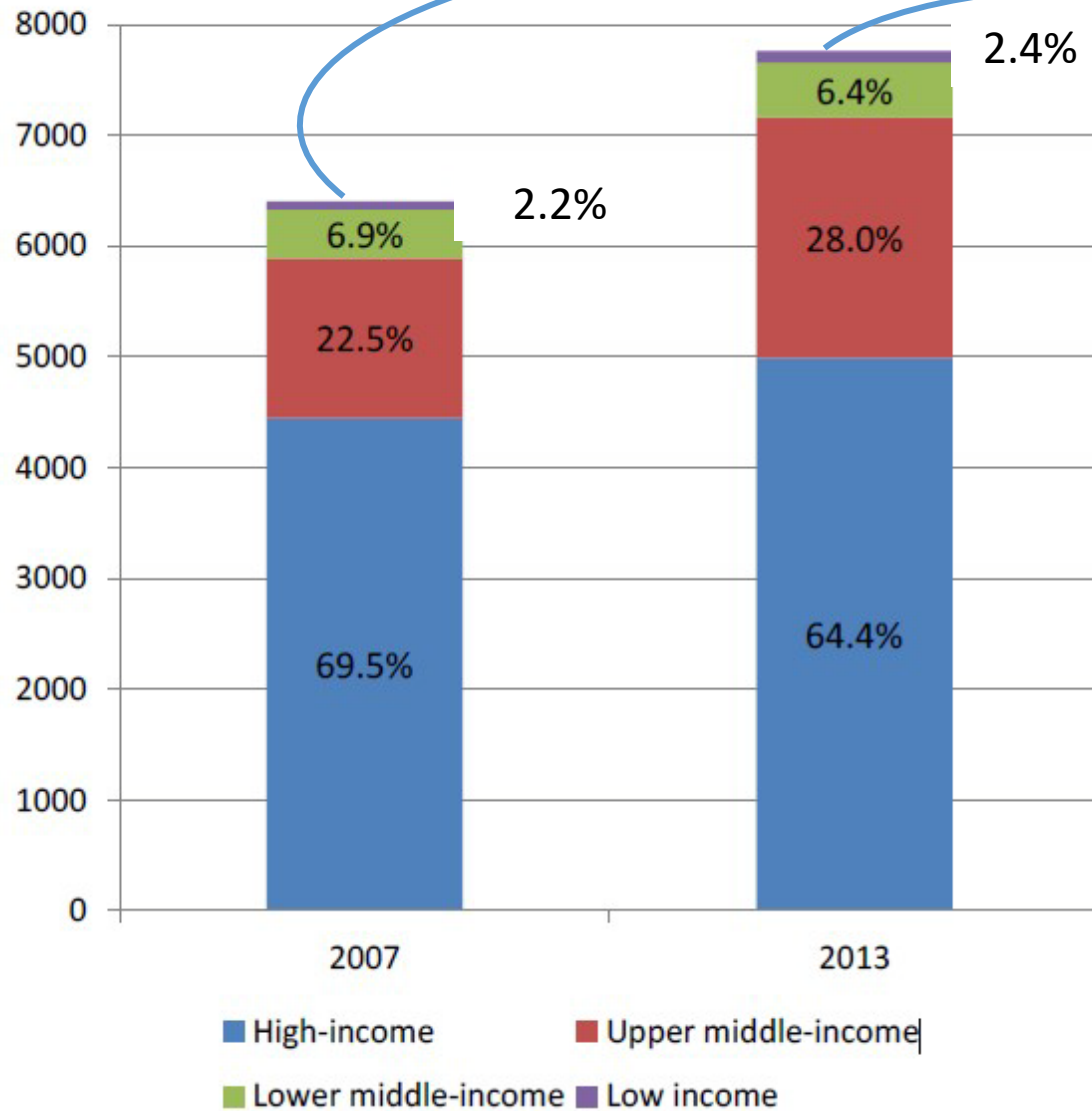
Research4Life pre-history

- Now think about when:
 - medical students studied from teachers who taught from the lectures notes they took 30 years before
 - university libraries had few books and all old
 - government officials were setting policy without access to the latest public health or agricultural research
- This scenario was common for every country at one point or another in their history. For the present-day lower income countries, they were facing this at the end of the 1990's.

Research4Life (R4L) - Goals

- To connect developing world researchers with the international scientific community
- To reduce the 'publishing gap' and improve the quality of locally produced articles and journals
- Ultimately – improve health, food security and environment in relation to Millennium Development Goals of 2015

Researchers: Absolute number ('000s) and world share (%)



Africa's world share of researchers

2.4% in 2013

2.2% in 2007

R4L In Context: SCIENTIFIC AND KNOWLEDGE GAP

- **Researchers: Total world share (Source : UNESCO Science Report 2015)**

Africa	2.4%
Canada	2.1%
USA	16.7%
Asia	42.8

- **Patent application share (Source : WIPO)**

High Income Countries	85.7%%
Rest of the World	14.3 %

- Serial Title (ISSN Records - 2015)

Nigeria	11,234
South Africa	6,893
USA	238,833

- National Library Collections (Indicators of national Information wealth; Source : Unesco)

Europe	300 Million
Africa	3 Million
Asia	46 Million

Research in Africa

- Research investment of millions of dollars in the past 3 decades
- Continued limited access to the world's published knowledge resulting in:
 - Duplication of efforts
 - Limits in innovation
 - Diminished return on investment

Institution Libraries

- Journals have become expensive and inaccessible to the scientist
- Subscriptions increase at an annual rate of 11 -16%, which is beyond the reach of many institutions in Africa
- Most institutions have small, older and incomplete collections

Research4Life

<http://www.research4life.org>



HINARI
Research in Health

AGORA
Research in Agriculture

OARE
Research in the Environment

ARDI
Research for Innovation

Access to Research in the Developing World

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Unsung Heroes: Stories from the Library

How access to scientific literature is building the global research community



NEWS

[Empowering Agricultural Researchers through the Internet](#)

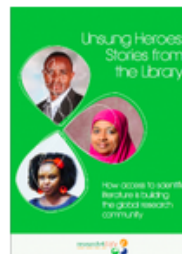
12th June 2014

[Research4Life Newsletter May 2014](#)

13th May 2014

[Research4Life's HINARI featured at World Health Organization](#)

ANNOUNCEMENTS



"Unsung Heroes: Stories from the Library" a new publication from Research4Life Partners with global testimonies from librarians in developing countries highlight the important role they have in building institutional capacities and aiding in vital research.

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Background : Research4Life

- April 2000 - WHO held a meeting with researchers to discover their highest information priority – *access to subscription journals*
- Partnership between WHO, 6 founding publishers and Yale University
- *HINARI launched in July 2001*
- FAO and Cornell launched AGORA in 2003
- UNEP and Yale launched OARE in 2006
- WIPO launched ARDI in 2009-R4L since 2011
- Successful collaboration of 4 major UN agencies
- Public private partnership for development (core to MDGs)



- More than 100 countries, areas and territories
- **ARDI:** development and innovation research (up to 8,000 journals, up to 20,000 books, 15 other information resources, more than 900 registered institutions, up to 15 publisher partners) www.wipo.int/ardi/en/
- **HINARI:** health research (up to 14,000 journals, up to 53,000 books and up to 70 other information resources, more than 5,600 registered institutions, up to 170 publisher partners) www.who.int/hinari/en/

- **AGORA:** agriculture research (up to 6,500 journals, up to 22,000 books, up to 115 information resources, more than 3,000 registered institutions, up to 60 publisher partner) www.aginternetwork.org/en/
- **OARE:** environment research (up to 10,000 journals, up to 21,000 books, up to 55 other information resources, 2600 registered institutions, up to 60 publisher partners) www.unep.org/oare/en/

Why use electronic library resources?

- An up-to-date resource
- Convenience
- Extra features—e.g. search facilities, links to other databases, supplementary information
- Access to a wider range of material than might otherwise be available through your local library

Primary Target Audiences

- Eligible categories of institutions are:
 - Government: relevant ministries and agencies
 - Academic/research institutions
 - Locally based non-governmental organizations (NGOs)

- All permanent and visiting faculty, staff members and students are entitled to access and can obtain the institutional User Name and Password.

Eligibility

- Countries, areas, or territories with a total GNI above US\$ 1 trillion are not eligible for R4L Programmes regardless of other factors

Eligibility

- Core Offer Group A - Free Access
All countries, areas, or territories fulfilling any of the below criteria:
 - UN Least Developed Country List and/or
 - Human Development Index (HDI) is at or less than 0.50
 - Total Gross National Income (GNI) is at or less than US\$ 150 billion where:
 - HDI is at or less than 0.63 and/or
 - Gross National Income per capita (GNIpc) is at or less than US\$ 1600

Eligibility

- Core Offer Group B - Paid access with \$1500 annual fee per institution:
 - Total GNI is at or less than US\$ 1 billion
 - Total GNI is at or less than US\$ 20 billion where GNIpc is at or less than US\$10,000
 - Total GNI is at or less than US\$ 180 billion where:
 - HDI is at or less than 0.67 and/or
 - GNIpc is at or less than US\$ 5000

Primary Target Audiences

- Research and teaching universities
- National research organizations, government offices and ministries (agriculture, environment, forestry, health, research, etc.)
- Publicly funded and not-for-profit agencies (including hospitals, health treatment centers, etc.)
- Libraries

HINARI

stm



- World Health Organization, Yale University Library, + 130 STM publishers
- Medicine, nursing, and related health and social sciences, including journals in library science and multiple languages
- Special version of Medline

www.who.int/hinari



HINARI Portal

← → ↻ 🏠 ☆ 🇭🇲 ⭐ 🚀 ☰

عربي | **English** | Français | Русский | Español | Português

HINARI
Research in Health

Please log in to access HINARI **Log in**

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Register for HINARI
Find out what you need to know about registering

Content Home Find by: **Subject** **Language** **Publisher**

HINARI - Enabling the developing world to access health research

Journals collection
[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)
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[View complete list of books](#)

[Search inside HINARI full-text through database and article searching](#)

[Reference sources](#)

Free collections
-- SELECT FREE COLLECTION -- ▾

[Search inside HINARI full-text using PubMed](#) [more info](#)

HINARI
Research in Health

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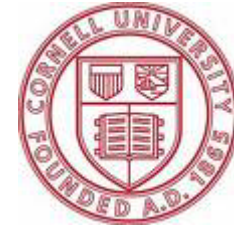
© WHO 2012

Objectives of HINARI

- To connect developing world researchers with the international scientific community
- To reduce the 'publishing gap' and improve the quality of locally produced articles and journals
- Ultimately – to improve health in relation to Millennium Development Goals of 2015

AGORA

stm



- Food and Agriculture Organization, Cornell University Mann Library, 82 STM publishers
- Agriculture, fisheries, food, nutrition, veterinary science, and related subjects

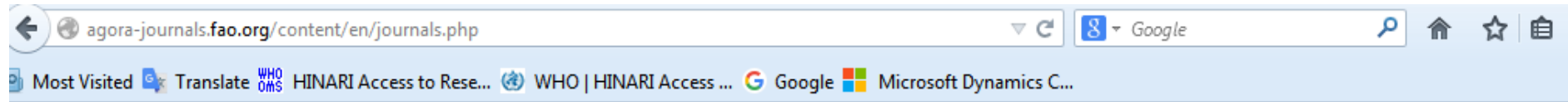
www.fao.org/agora



Objectives of AGORA

- Increase access to high-quality, relevant literature in agriculture
- Improve the quality and effectiveness of education and training.
- Improve food security
- Improve research in agriculture and related sciences

AGORA Portal



عربي | **English** | Français | Русский | Español | Português



Please log in to access AGORA

Log in

- AGORA
- About AGORA
- Access the content**
- Eligibility
- Partners
- Training Materials
- FAQs

Register for AGORA
Sign up your institution for research access

Content Home

Find by:

Subject

Language

Publisher

AGORA - Enabling the developing world to access agriculture research

Journals collection

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)
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[Reference sources](#)

Books collection

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)
[View complete list of books](#)

Free collections

-- SELECT FREE COLLECTION --

Search inside AGORA full-text using:

[Summon](#)
[Scopus](#)



News

The Research4Life User Portals will be undergoing routine server maintenance during the morning Central European



OARE

stm



- United Nations Environment Programme, Yale University, 350 STM publishers
- Disciplines contributing to our understanding of the natural environment

www.oaresciences.org



OARE Portal

The screenshot shows the OARE Portal website. At the top, there is a navigation bar with language options: عربي, English, Français, Русский, Español, and Português. The OARE logo is prominently displayed, with the tagline "RESEARCH IN THE ENVIRONMENT". A "Log in" button is present with the text "Please log in to access OARE".

On the left side, there is a vertical menu with the following items: OARE, About OARE, Access the content (highlighted), Eligibility, Partners, Training Materials, and FAQs. Below this menu is a blue button that says "Register for OARE Sign up your institution for research access".

The main content area features a "Find by:" section with tabs for "Content Home", "Subject", "Language", and "Publisher". Below this, the heading "OARE - Enabling the developing world to access environment research" is followed by two main sections:

- Journals collection**: Includes a list of letters A-Z and a link to "View complete list of journals".
- Books collection**: Includes a list of letters A-Z and a link to "View complete list of books".

Additional links and options include "Search inside OARE full-text through database and article searching", "Reference sources", and "Free collections" with a dropdown menu set to "-- SELECT FREE COLLECTION --".

At the bottom of the main content area, there is a section for "Search inside OARE full-text using:" with a link to "Summon".

News

The Research4Life User Portals will be undergoing routine server maintenance during the morning Central European

stm



ARDI

- World Intellectual Property Organisation (WIPO), 14 Major publishers
- Launched July 23 2009
- Includes 200 scientific journals available to 107 countries
- The newest addition to R4L

<http://ARDI.wipo.int>

ARDI Objectives

stm



- Re-inforce 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 faced on a local and global level.

ARDI Portal

The screenshot shows a web browser window with the URL `ardi.wipo.int/content/en/journals.php`. The browser's address bar and tabs are visible at the top. The page header includes language options: [عربي](#), **English**, [Español](#), [Français](#), [Português](#), and [Русский](#). A login prompt reads "Please log in to access ARDI" with a **Log in** button. The main content area features a "Content Home" tab and a "Find by:" section with buttons for **Subject**, **Language**, and **Publisher**. Under "Journals collection", there is an alphabetical index [A B C D E F G H I J K L M N O P Q R S T U V W X Y Z](#) and a link to [View complete list of journals](#). Under "Books collection", there is another alphabetical index [A B C D E F G H I J K L M N O P Q R S T U V W X Y Z](#) and a link to [View complete list of books](#). On the right side, there are links for [Search inside ARDI full-text through database and article searching](#), [Reference sources](#), a **Free collections** section with a dropdown menu showing "-- SELECT FREE COLLECTION --", and a link to [Partners](#). A "News" section is partially visible at the bottom left of the main content area.



Access to Research in the Developing World

- HOME
- ABOUT
- ACCESS
- TRAINING**
- CASE STUDIES
- NEWS
- CONTACT
- FAQS
- BLOG

TRAINING

Welcome to the Research4Life Training Portal

In order for librarians and researchers to understand the importance of training and education, we have provided long-term support on the use of digital resources.

In this section you will find different types of training material, local workshops and advanced courses.

The content of this portal is aimed at researchers and librarians.

If you require further information, please contact us.

Displayed is the new **Research4Life Training** portal. All the inter-program training material plus information about courses and workshops information is located on this page – in six sections.

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R4L ON TWITTER

RT @TheEconomist: A new project is at the forefront of a blossoming of scientific research in Africa <http://t.co/7Q7lQHBhOd> <http://t.co/33N...> 1 day ago retweeted via [TheEconomist](#)



About Research4Life

Research4Life general training material in order to understand the similarities and differences between our four programmes: AGORA, HINARI, OARE and ARDI.



Authorship Skills

A set of 10 modules to develop authorship skills. How to read and write scientific papers, intellectual property and web bibliography along with hands on activity workbooks.

The other four sections of the **Research4Life Training** resources are displayed in this slide.



Reference Management Tools

Training modules to learn how to use Mendeley, Zotero and EndNote to reference bibliographical data.



Programme Specific Training

General information and links to each of the specific training modules for HINARI, AGORA, OARE and ARDI.



Courses and Workshops

Find more information about Research4Life distance learning courses and the workshops available in different countries.



Other Resources

Additional training material about marketing and managing change strategies for Research4Life as well as resources on information literacy.



Authorship Skills

This page contains a series of **Authorship Skills** presentations and exercises:

How to Read a Scientific Paper, How to Write a Scientific Paper, Copyright & Plagiarism, Strategies for Effective Writing, Web-Bibliography and Frequently Asked Questions

The Authorship Skills modules engages you in a series of readings, hands-on activities and/or group discussions along with assignments designed to help you address many issues in the publishing process. How to read, write and publish research outcomes are some of the skills this training will help you develop. Join us to become more effective writers... and better researchers. The completion of the course will take 5-7 hours of instruction depending on the number of exercises finished.

Part A: How to Read a Scientific Paper

An overview of the key activities needed to properly read and understand a paper. It discusses the types of scientific papers, organization of a paper, actions to take – to properly read a paper – and difficulties in reading scientific papers.

Download ppt (279 kb)

Download Appendix pdf (438 kb)

Part B: How to Write a Scientific Paper

Discusses key elements of publishing (ethical issues, style and language, structure and components of a paper including structured abstracts, the article submission process including peer review and author vs. reader priorities. It also includes an Appendix that summarizes the publishing process from a low-income country author's perspective. The extensive exercises include assignments to write a structured abstract, designate keywords and, from abstracts of articles, decide which journal an article should be submitted to.

Download ppt (1.3 MB)

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R4L ON TWITTER

RT @janremm: New pilot project in Sierra Leone by @INASPinfo with @R4LPartnership <http://t.co/u7EjwltMlz> 'Enthusiasm, timing & local owners... [3 days ago](#) retweeted via [janremm](#)

RT @TheEconomist: A new project is at the forefront of a blossoming of scientific



Reference Management Tools

Reference Management Tools help scholars to create and manage their lists of references for research projects. Most tools are designed to organize citations into specific formats for the preparation of manuscripts and bibliographies. Many search tools provide ways to download references into reference management tools.

This module will help you develop the skills necessary to use three of the most used management softwares: Mendeley, Zotero and EndNote Web.

Part A: Mendeley

Mendeley is a free reference manager and academic social network that can help you organize your research, collaborate with others online, and discover the latest research. In this module you will learn how to:

- Register to Mendeley
- Create your Mendeley Library
- Manage your documents and references
- Cite references
- Share Documents and References

Format: ppt
Size: 6.3 MB



Part B: Zotero

Zotero is a free and open-source reference manager for collecting, organizing, and sharing research materials. In this module you will learn how to:

- Install Zotero
- Create your Zotero library
- Add references to your Zotero library
- Manage your documents and references
- Create bibliographies
- Use Zotero with MS Word

Format: ppt
Size: 5 MB

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Highlighted in this section are three Reference Management Tools – Mendeley Basic (available to all users), Zotero (open source option) and EndNote Web – how to access, download and use these resources.