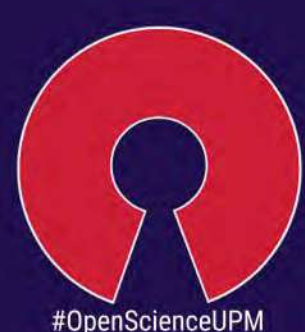


“TOWARDS A WORLD-CLASS ACADEMIC LIBRARY”

UPM Open Science Month Programme *Exhibition*



“Open Science for All”

ORGANIZED BY
SULTAN ABDUL SAMAD LIBRARY
UNIVERSITI PUTRA MALAYSIA

2025

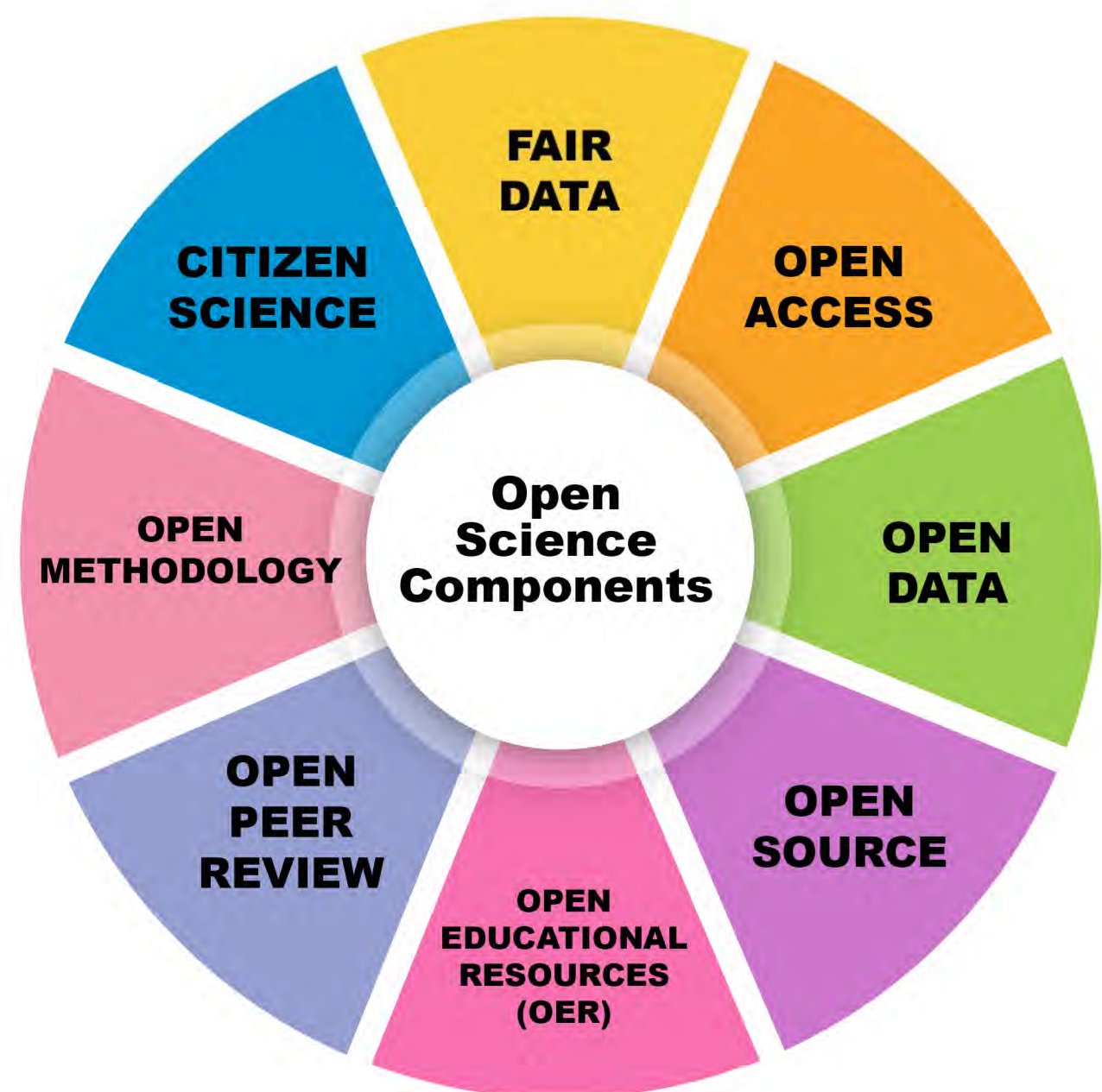


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With Knowledge We Serve

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upm.edu.my | lib.upm.edu.my

OPEN SCIENCE

Open science is a set of **principles and practices that aim to make scientific research from all fields accessible to everyone** for the benefits of scientists and society as a whole. Open science is about making sure not only that scientific knowledge is accessible but also that the production of that knowledge itself is inclusive, equitable and sustainable. (UNESCO, 2023)



FAIR DATA

- Findable** : Making research outputs discoverable by the wider academic community and the public.
- Accessible** : Using unique identifiers, metadata and a clear use of language and access protocols.
- Interoperable** : Applying standards to encode and exchange data and metadata.
- Reusable** : Enabling the repurposing of research outputs to maximise their research potential.

OPEN ACCESS

Open Access refers to **unrestricted access to research outputs such as journal articles and conference proceedings**, allowing researchers, students, and the public to access information without subscription fees (Suber, 2012).

- GOLD OPEN ACCESS** : Articles are published in fully open-access journals (DOAJ, 2024)
- GREEN OPEN ACCESS** : Articles are deposited in institutional repositories (Hamed et al., 2008).
- HYBRID OPEN ACCESS** : Articles in subscription-based journals can be made openly accessible for an additional fee (Pinfield et al., 2017)

OPEN SOURCE

Open Source software allows **researchers to use, modify, and share code without restrictions** (Raymond, 1999).



OPEN DATA

Open Data refers to **research data that is freely shared and available for reuse by other researchers**. The FAIR principles (Findable, Accessible, Interoperable, Reusable) ensure that data is easy to locate and use (Wilkinson et al., 2016).

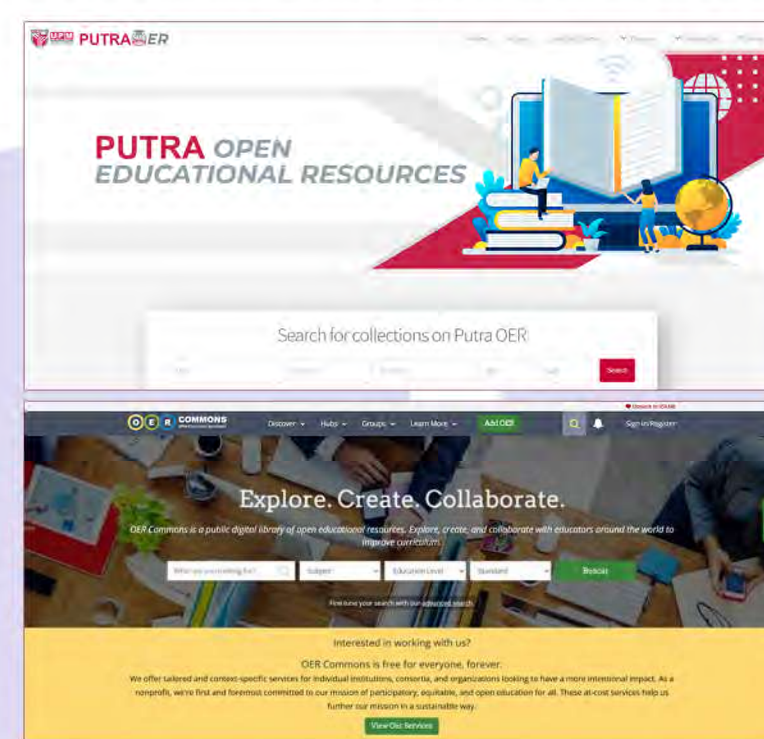


OPEN METHODOLOGY

Open Methodology means **making research method transparent, accessible, and reusable, including detailed descriptions of experimental setups, data collection, and analysis**, to enable replication and validation of research findings. (Open Universal Science, 2023).

OPEN EDUCATIONAL RESOURCES

Open Educational Resources (OER) are **teaching, learning, and research materials** in any medium (digital or otherwise) that reside in the public domain or are released under an open license (e.g., CC BY), permitting free access, reuse, adaptation, and redistribution by others.



CITIZEN SCIENCE

Citizen science is **any activity that involves the public in scientific research and thus has the potential to bring together science, policy makers, and society as a whole in an impactful way**. Through citizen science, all people can participate in many stage of the scientific process, from the design of the research question, to data collection and volunteer mapping, data interpretation and analysis, and to publication and dissemination of result. Citizen science is also an approach of scientific work that may be used as a part of a broader scientific activity. (EU-Citizen.Science).

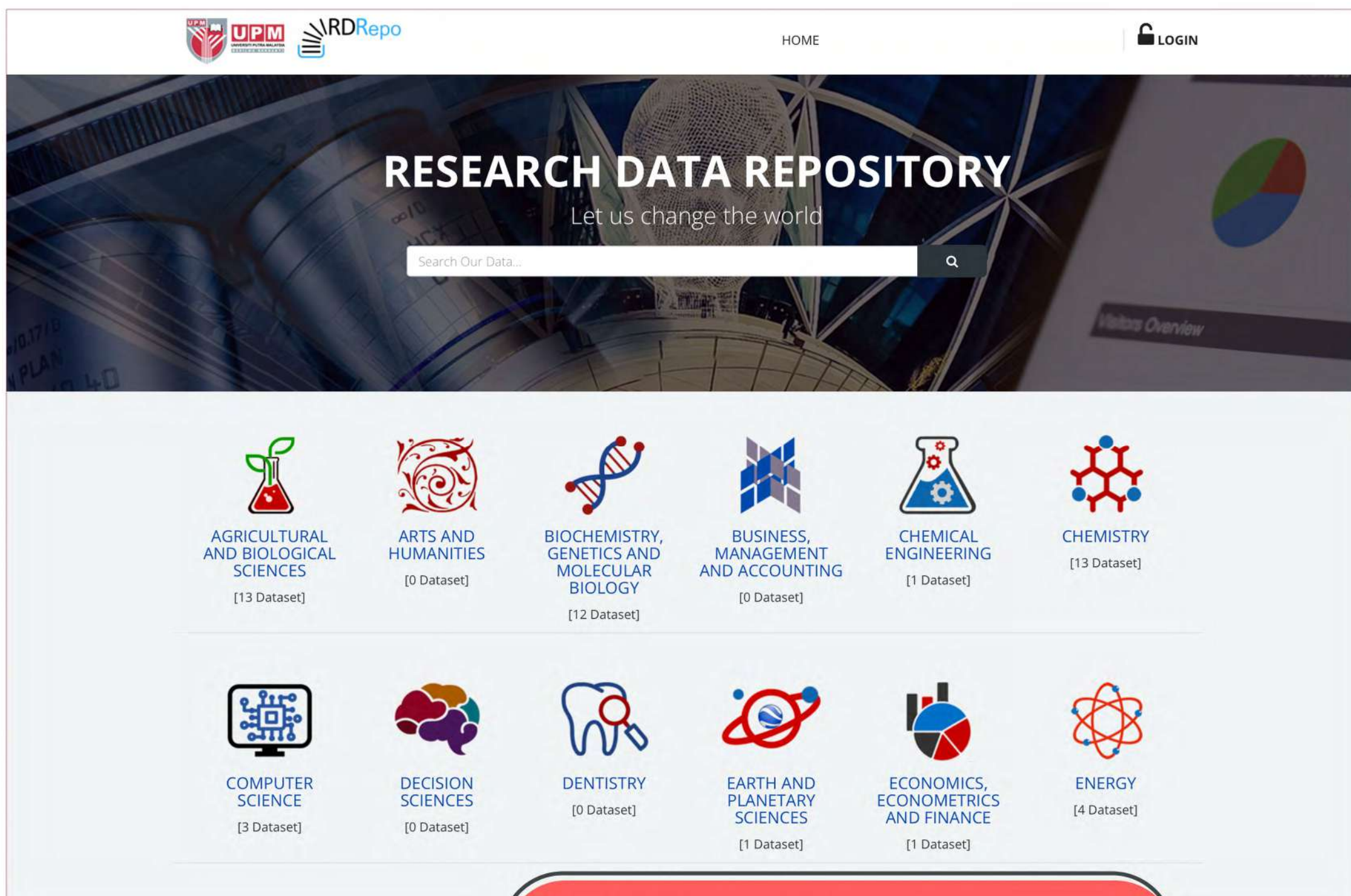
OPEN PEER REVIEW

Open Peer Review refers to the **process of making peer reviewer reports openly available**. many publishers and journals offer some form of open peer review, including BMC who were one of the first publishers to open up peer review in 1999. (PringerNature, 2025).



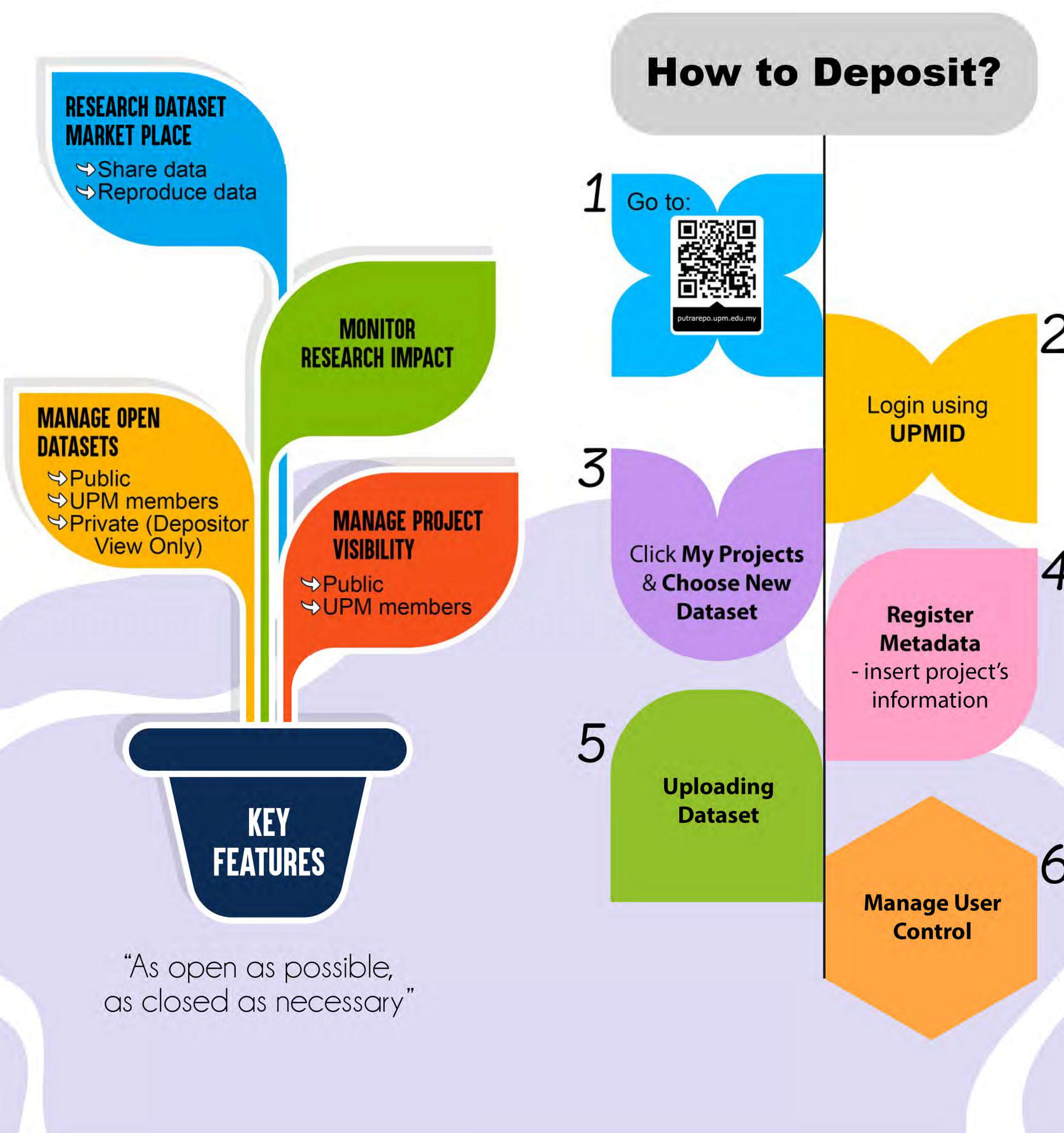
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UPM RESEARCH DATA REPOSITORY



<http://putrarepo.upm.edu.my>

PutraRepo not only provides long-term storage for UPM researchers to deposit their research data, but also ensure that the data is **discoverable, accessible and reusable**. Apart from depositing data in a repository, researchers can publish their data in a data journal and link it to their publications to maximize the impact of their research.

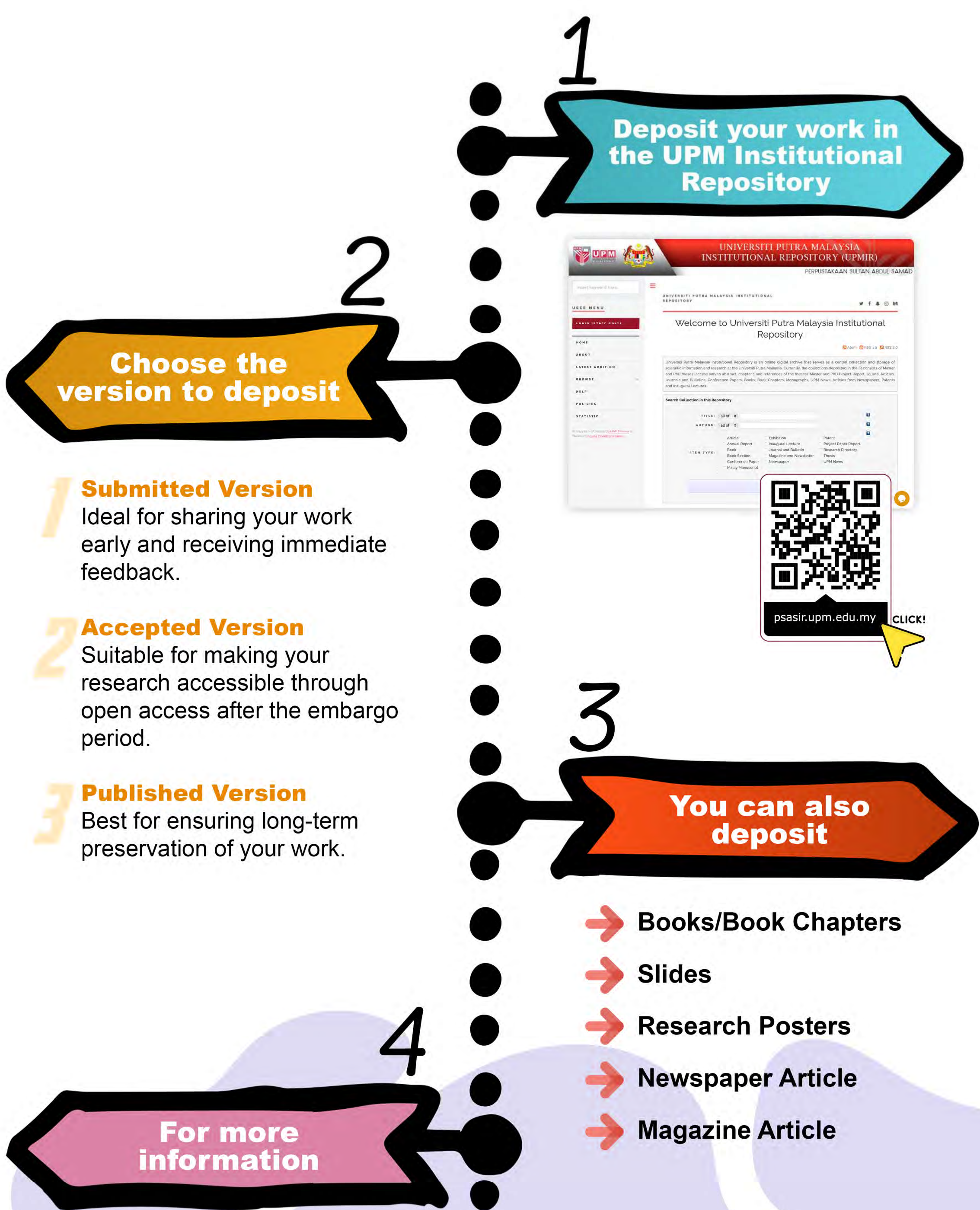


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SELF-ARCHIVING IN UPM INSTITUTIONAL REPOSITORY

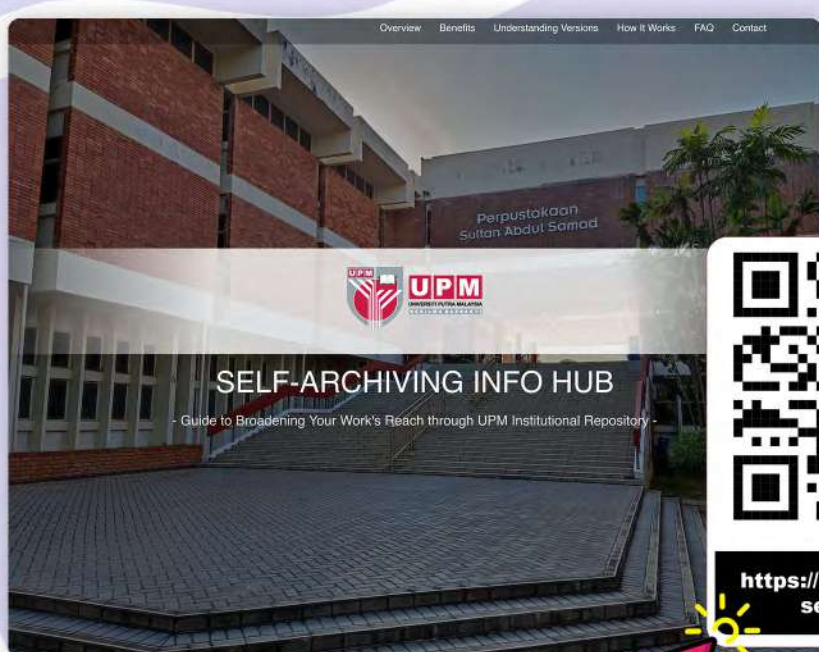
Disseminate Your Research Globally

Universiti Putra Malaysia Institutional Repository is an **online digital archive that serves as a central collection and storage of scientific information and research at the Universiti Putra Malaysia**. Currently, the collections deposited in the IR consists of Master and PhD theses (access only to abstract, chapter 1 and references of the theses), Master and PhD Project Report, Journal Articles, Journals and Bulletins, Conference Papers, Books, Book Chapters, Monographs, UPM News, Articles from Newspapers, Patents and Inaugural Lectures.



- 1 Submitted Version**
Ideal for sharing your work early and receiving immediate feedback.
- 2 Accepted Version**
Suitable for making your research accessible through open access after the embargo period.
- 3 Published Version**
Best for ensuring long-term preservation of your work.

- ➔ Books/Book Chapters
- ➔ Slides
- ➔ Research Posters
- ➔ Newspaper Article
- ➔ Magazine Article



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PERTANIKA JOURNALS

Universiti Putra Malaysia (UPM)



1 JOURNALS OVERVIEW

PERTANIKA JOURNAL OF TROPICAL AGRICULTURAL SCIENCE

- **Scope:** Tropical agriculture, science, engineering.
- **Frequency:** 6 issues/year (Jan, Feb, May, Jun, Aug, Nov).
- **Language:** English.

PERTANIKA JOURNAL OF SCIENCE & TECHNOLOGY

- **Scope:** Applied sciences, engineering, technology.
- **Frequency:** 6 issues/year (Jan, Mar, Apr, Jul, Aug, Oct).
- **Language:** English.

PERTANIKA JOURNAL OF SOCIAL SCIENCES & HUMANITIES

- **Scope:** Social sciences, humanities, Asia-Pacific focus.
- **Frequency:** 4 issues/year (Mar, Jun, Sep, Dec).
- **Language:** English & Bahasa Malaysia.

PERTANIKA PROCEEDINGS

- **Scope:** Conference proceedings across all research fields.
- **Key Feature:** Open access, global visibility for conference outputs.

2 SUBMISSION GUIDELINES

- Originality: No dual submissions or prior publications.
- Process:
 - ➔ Visit www.pertanika.upm.edu.my
 - ➔ Select a journal under the "Journals" tab.
 - ➔ Review **scope, guidelines, and submit via online portal.**

3 WHY PUBLISH WITH US?



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✓ **Free access & high visibility**



✓ **Streamlined publication timeline**

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UPM OPEN ACCESS STATISTICS

in SCOPUS (2019-2025)

AGRICULTURAL AND BIOLOGICAL SCIENCES

Documents: **3119**
Top 5 Source Title:

- Food Research
- Pertanika Journal of Science and Technology
- Pertanika Journal of Tropical Agricultural Science
- Agronomy
- Foods

ENGINEERING

Documents: **2,195**
Top 5 Source Title:

- IEEE Access
- Applied Sciences Switzerland
- Iop Conference Series Materials Science and Engineering
- Indonesian Journal of Electrical Engineering and Computer Science
- Energies

COMPUTER SCIENCE

Documents: **1,926**
Top 5 Source Title:

- Sustainability Switzerland
- IEEE Access
- Pertanika Journal of Science and Technology
- Applied Sciences Switzerland
- Symmetry

ENVIRONMENTAL SCIENCE

Documents: **2,260**
Top 5 Source Title:

- Iop Conference Series Earth and Environmental Science
- Sustainability Switzerland
- International Journal of Environmental Research and Public Health
- Pertanika Journal of Science and Technology
- Bioresources

MEDICINE

Documents: **2,349**
Top 5 Source Title:

- Malaysian Journal of Medicine and Health Science
- International Journal of Environmental Research and Public Health
- Frontiers in Public Health
- BMC Public Health
- Evidence Based Complementary and Alternative Medicine

MATERIALS SCIENCE

Documents: **1,882**
Top 5 Source Title:

- Polymers
- IEEE Access
- Applied Sciences Switzerland
- Journal of Materials Research and Technology
- Iop Conference Series Materials Science and Engineering

BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Documents: **1,670**
Top 5 Source Title:

- Molecules
- International Journal of Molecular Sciences
- Asia Pacific Journal of Molecular Biology and Biotechnology
- Malaysian Journal of Fundamental and Applied Sciences
- Peerj

CHEMISTRY

Documents: **1,390**
Top 5 Source Title:

- Polymers
- Molecules
- Symmetry
- International Journal of Molecular Sciences
- Catalysts

SOCIAL SCIENCES

Documents: **1,738**
Top 5 Source Title:

- Sustainability Switzerland
- Pertanika Journal of Social Sciences and Humanities
- Foods
- Journal of Sustainability Science and Management
- Studies In Media and Communication

PHYSICS AND ASTRONOMY

Documents: **1,738**
Top 5 Source Title:

- Journal of Physics Conference Series
- Applied Sciences Switzerland
- Materials
- Symmetry
- Results in Physics

CHEMICAL ENGINEERING

Documents: **1,393**
Top 5 Source Title:

- Pertanika Journal of Science and Technology
- Applied Sciences Switzerland
- Bioresources
- Processes
- International Journal of Molecular Sciences

MATHEMATICS

Documents: **1,393**
Top 5 Source Title:

- Symmetry
- Mathematics
- Indonesian Journal of Electrical Engineering and Computer Science
- Energies
- Malaysian Journal of Fundamental and Applied Sciences

BUSINESS, MANAGEMENT AND ACCOUNTING

Documents: **1,016**
Top 5 Source Title:

- Pertanika Journal of Social Sciences and Humanities
- International Journal of Recent Technology and Engineering
- International Journal of Business and Society
- Cogent Business and Management
- Journal of Cleaner Production

MULTIDISCIPLINARY

Documents: **1,063**
Top 5 Source Title:

- Plos One
- Scientific Reports
- Sains Malaysiana
- Heliyon
- Journal of Advanced Research in Applied Sciences and Engineering Technology

ECONOMICS, ECONOMETRICS AND FINANCE

Documents: **473**
Top 5 Source Title:

- Pertanika Journal of Social Sciences and Humanities
- Jurnal Ekonomi Malaysia
- International Journal of Business and Society
- Humanities and Social Sciences Communications
- Mathematics and Statistics



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UPM OPEN ACCESS STATISTICS

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ENERGY

Documents: **751**
Top 5 Source Title:
• Sustainability Switzerland
• Journal of oil Palm Research
• Energies
• E3s Web of Conferences
• Journal of Cleaner Production

IMMUNOLOGY AND MICROBIOLOGY

Documents: **1,406**
Top 5 Source Title:
• Biomed Research International
• Foods
• African Journal of Biotechnology
• Malaysian Journal of Microbiology
• Frontiers in Microbiology

PHARMACOLOGY, TOXICOLOGY AND PHARMACEUTICS

Documents: **669**
Top 5 Source Title:
• Molecules
• Journal of Environmental Biology
• Frontiers in Pharmacology
• Vaccines
• Pharmaceutics

EARTH AND PLANETARY SCIENCES

Documents: **578**
Top 5 Source Title:
• Iop Conference Series Earth And Environmental Science
• E3s Web of Conferences
• Remote Sensing
• SN Applied Sciences
• Geojournal of Tourism And Geosites

ARTS AND HUMANITIES

Documents: **417**
Top 5 Source Title:
• Pertanika Journal of Social Sciences and Humanities
• Sage Open
• World Journal of English Language
• Theory and Practice in Language Studies
• 3I Language Linguistics Literature

VETERINARY

Documents: **399**
Top 5 Source Title:
• Animals
• Veterinary World
• Advances in Animal And Veterinary Sciences
• Frontiers in Veterinary Science
• BMC Veterinary Research

NURSING

Documents: **328**
Top 5 Source Title:
• Nutrients
• Malaysian Journal of Nutrition
• Malaysian Family Physician
• Frontiers in Nutrition
• Healthcare Switzerland

DECISION SCIENCES

Documents: **174**
Top 5 Source Title:
• Cogent Business and Management
• International Journal on Informatics Visualization
• Mathematics and Statistics
• Journal of Applied Structural Equation Modeling
• TEM Journal

PSYCHOLOGY

Documents: **213**
Top 5 Source Title:
• Frontiers in Psychology
• Humanities and Social Sciences Communications
• Research and Practice in Technology Enhanced Learning
• Environment and Social Psychology
• Behavioral Sciences

HEALTH PROFESSIONS

Documents: **234**
Top 5 Source Title:
• Foods
• Healthcare Switzerland
• Education in Medicine Journal
• International Journal of Human Movement and Sports Sciences
• International Journal of Kinesiology and Sports Science

NEUROSCIENCE

Documents: **156**
Top 5 Source Title:
• PeerJ
• Neuroscience Research Notes
• Behavioral Sciences
• Computational Intelligence and Neuroscience
• Egyptian Journal of Neurology Psychiatry and Neurosurgery

DENTISTRY

Documents: **10**
Top 5 Source Title:
• BMC Oral Health
• Dental and Medical Problems
• Head and Face Medicine
• Indian Journal of Dental Research
• International Journal of Current Research and Review

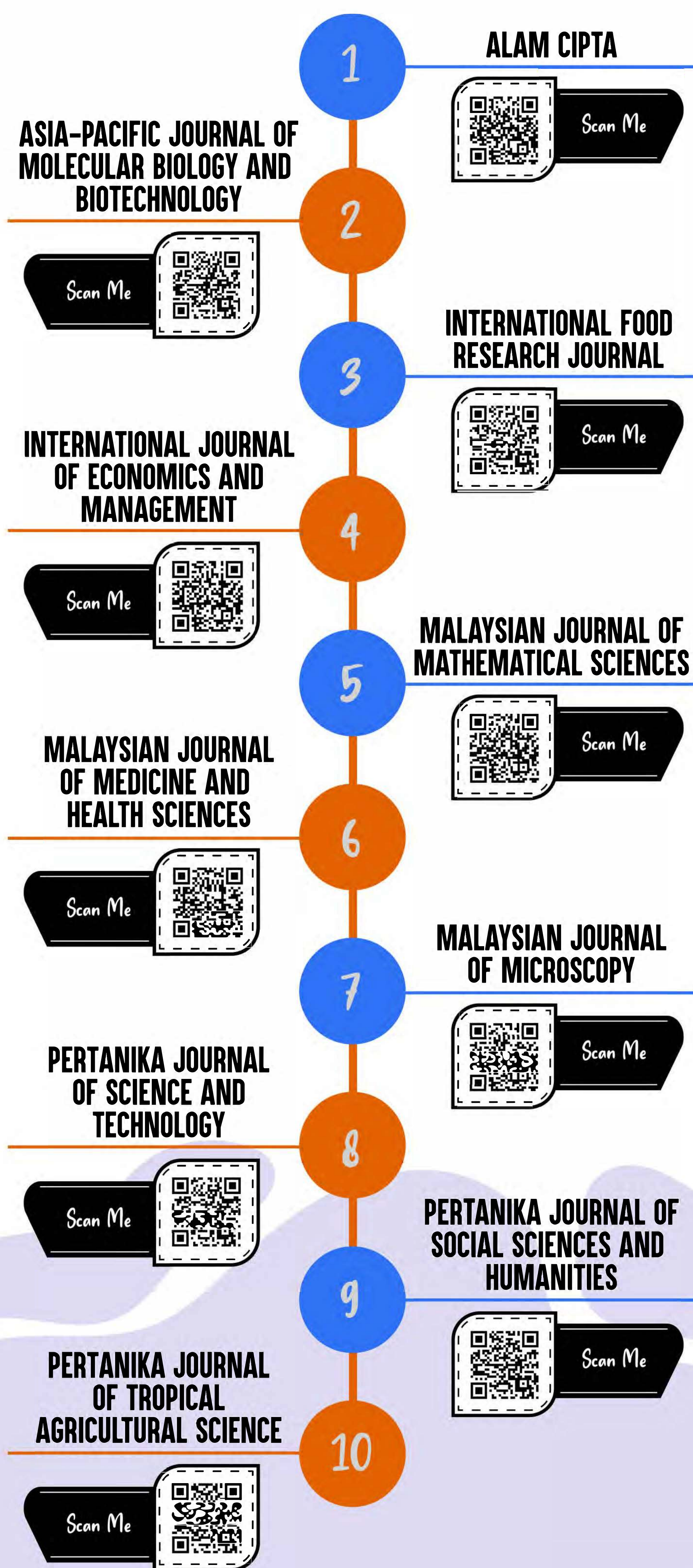
Data collection: 25 February 2025



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