

打造頂尖夢幻團隊

Building the Iron Triangle:


Connecting Libraries, R&D and Faculty

CONCERT 2017 年國際學術研討會

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WILEY



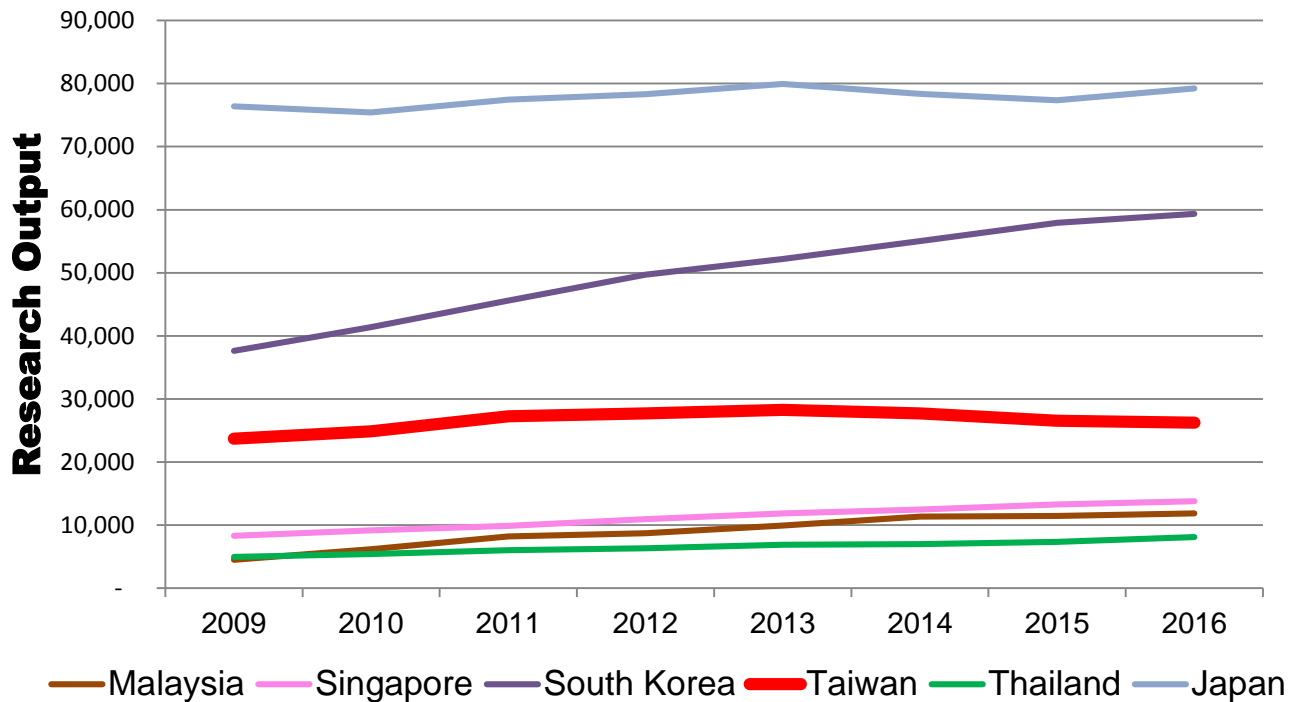
'In today's knowledge-based economy, scientific and technological innovation has become a key driver of economic growth and national progress. By fostering an innovative and entrepreneurial spirit and encouraging creativity in science and technology, MOST will boost Taiwan's academic and industrial competitiveness at the international level.'

Minister Liang-Gee Chen
科技部 陳部長良基

MOST 5 year strategy: nurturing talent and developing a S&T ecosystem

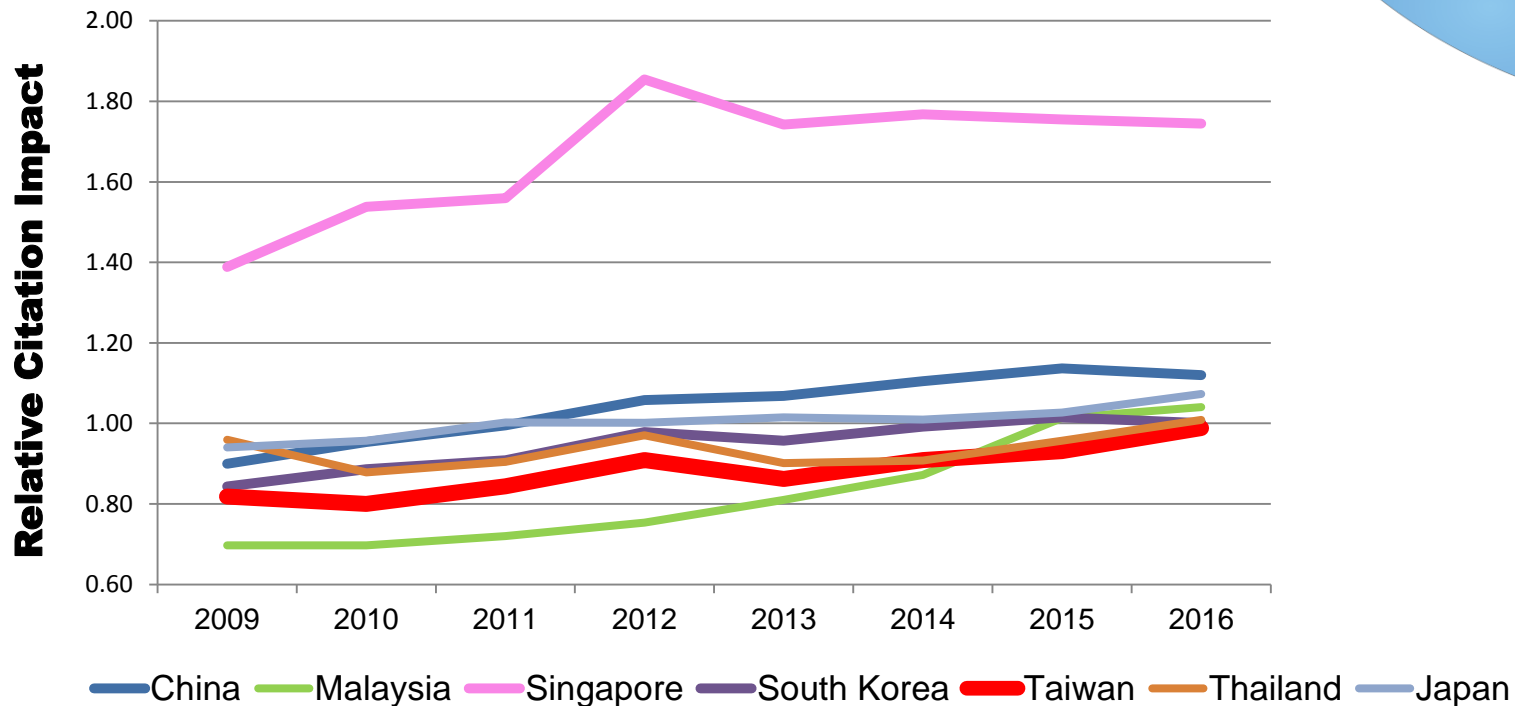


Growth in Published Research Outputs by Country 2009-2016

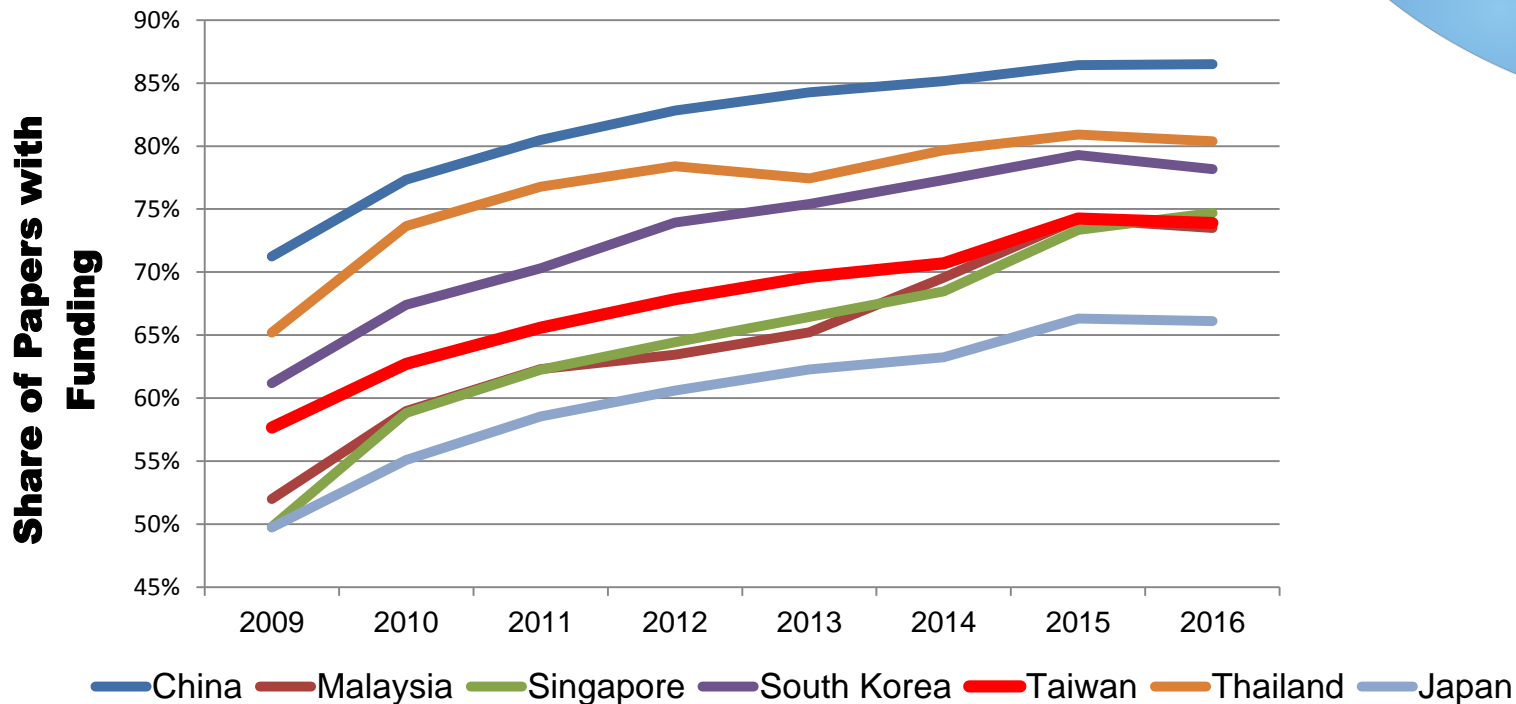


Country	Growth Rate (CAGR)
China	14.0%
Malaysia	14.9%
Singapore	7.5%
South Korea	6.7%
Taiwan	1.5%
Thailand	7.4%
Japan	0.5%
World Totals	4.1%

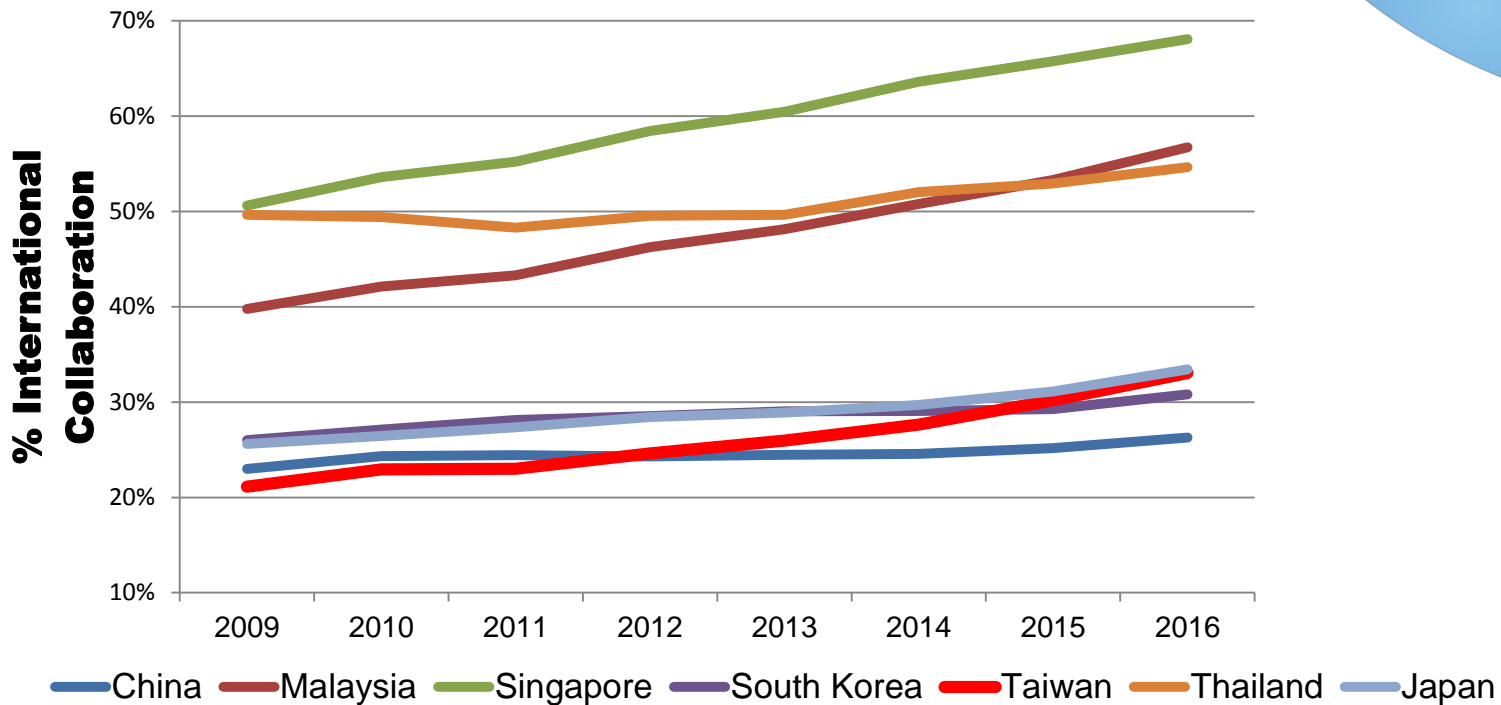
Relative Citation Impact 2009-2016



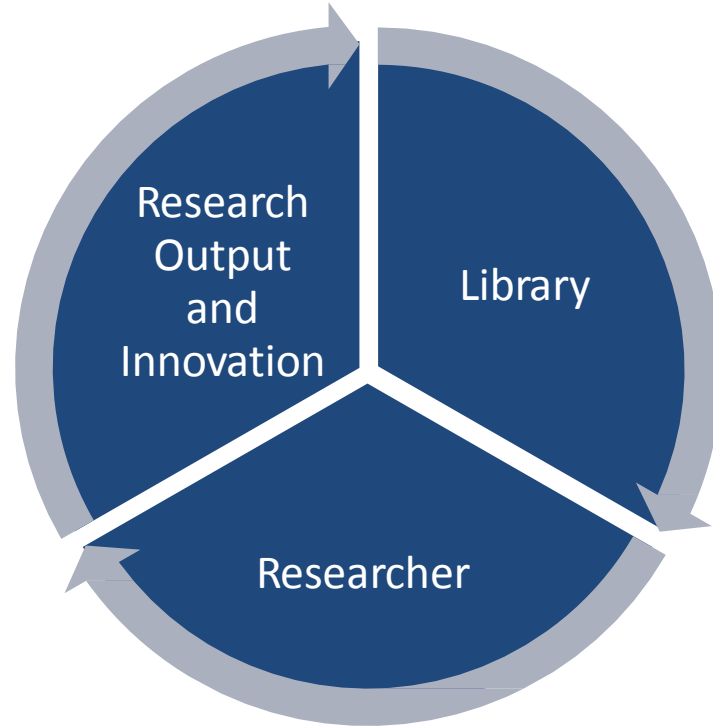
Research Funding Trends 2009-2016



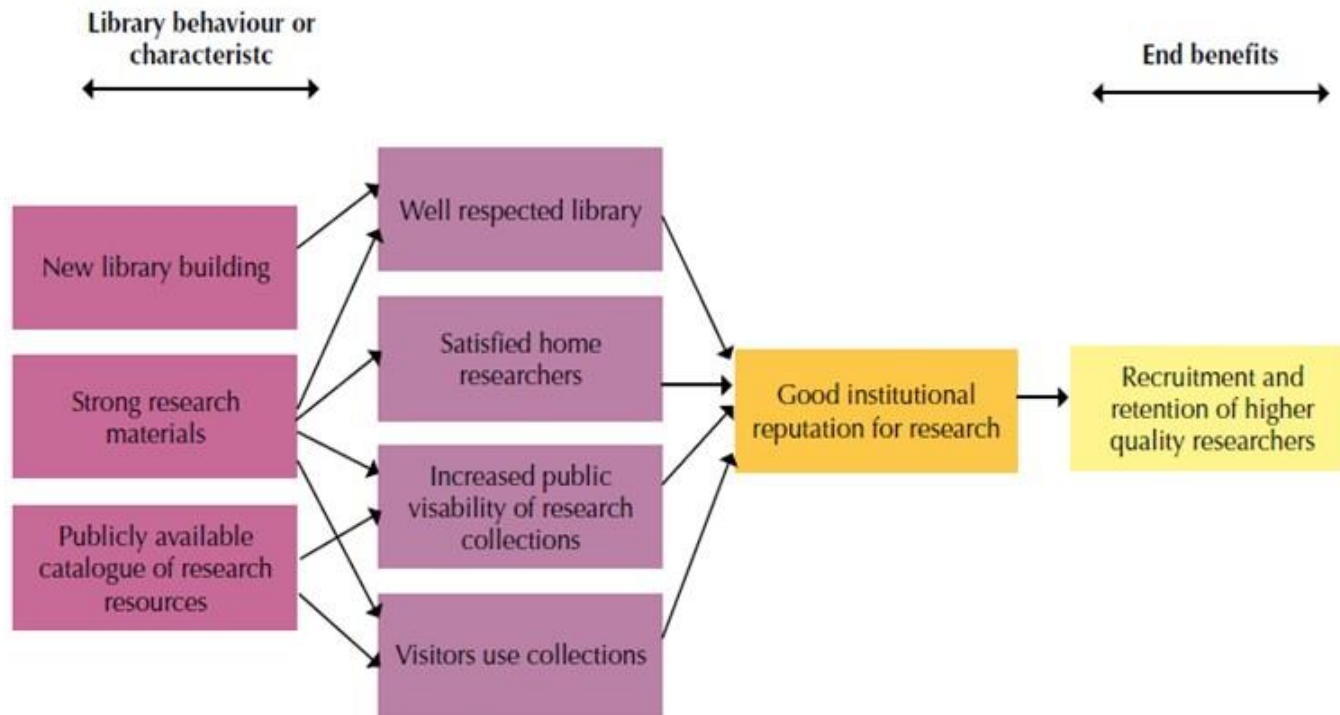
International Collaboration Trends 2009-2016



Connecting Libraries, R&D and Researchers



Libraries can help attract and retain top researchers



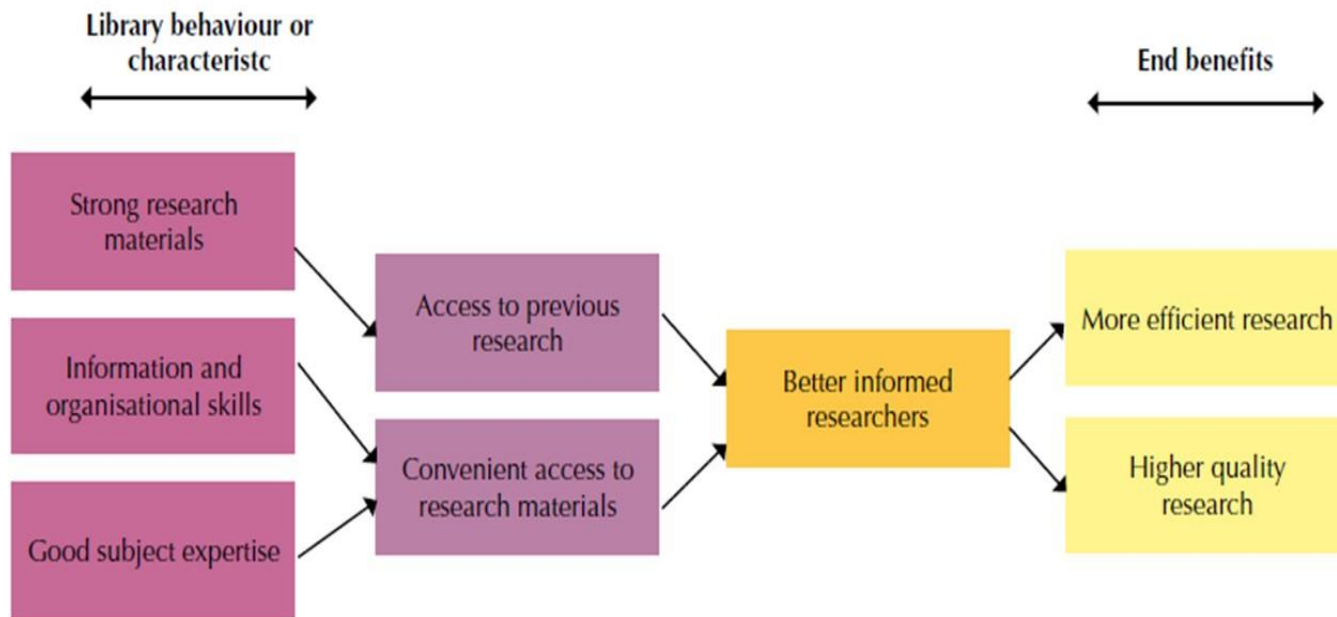
Quality Matters

The library's research collections can be a selling point for an institution, drawing international students, and influencing researchers when deciding to apply for or accept a post.

- Quality
- Nature
- Comprehensiveness



Convenient access to high-quality research content remains a key foundation for good research



Super - Users = Super - Producers

The evidence suggests a **link** between e-journal consumption and research outcomes:

CIBER Institutional Indicators

	Moderate users (<i>n=80</i>)	High users (<i>n=25</i>)	Super users (<i>n=10</i>)
Research papers per academic	0.4	0.8	1.0
Research grants and contracts per academic (£000's)	12.7	29.0	39.7
PhD awards per 100 academics	9.1	17.5	17.4
Cost per download	£0.89	£0.74	£0.60

More spending on e-journals mean more use and better research

Per capita **expenditure** and use of e-journals is **strongly and positively correlated** with:

- papers **published**
- numbers of **PhD awards**,
- research **grants** and contracts **income**

These correlations are independent of institutional size.

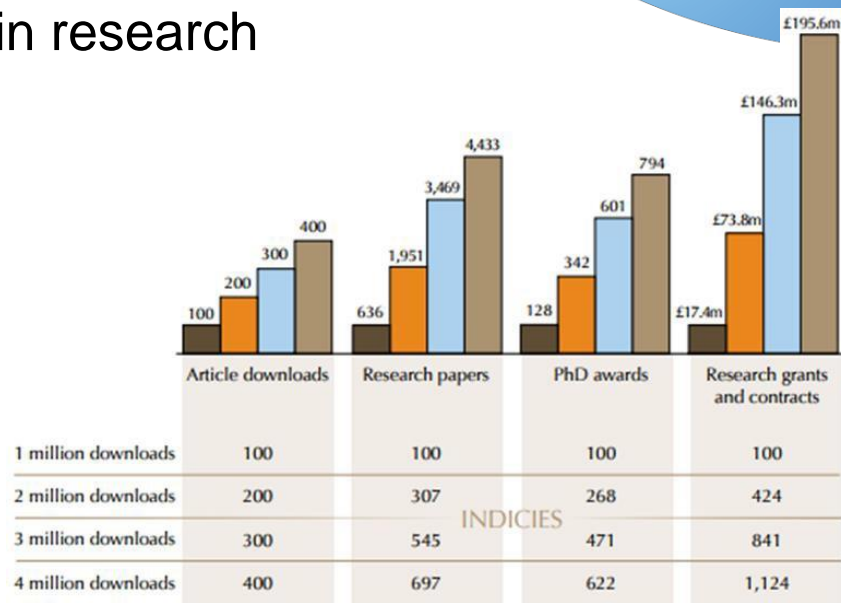


Use and outcomes: Understanding the value of e-journals in terms of successful research

A doubling in downloads (from 1 to 2M), is statistically associated with dramatic increases in research productivity:

- papers (207%)
- PhD awards (168%)
- research grants and contract income (324%)

The gearing becomes even stronger as the volume of downloads increases.



Ambition to improve research outputs meets with real challenges



Key challenges for researchers



Language needs



Academic /
Writing skills



Where to publish?
Predatory journals



Ethics
(e.g. plagiarism)



Network and support
opportunities

Understanding the
publication process:

- Peer review
- Open Access, Open Data



Key challenges

"There are so many rules for different journals. It's not clear why my papers get rejected."

India

"I don't know how I find the right journal for my paper."

Philippines

"I find it challenging to write in English"

China

"The most challenging part is writing a good abstract and TOC"

"How do I write in the English language to catch the eye of a reviewer?"

"I'd like to know how to present my findings so that they are clear to Editors."

37%

Of authors don't know how to communicate their results effectively

Wiley Research Academy

- High quality & comprehensive coverage
- Self-paced
- Scalable to the entire research community
- Robust instructional design
- Measurable learning benefits and impact

The screenshot displays the Wiley Research Academy website. At the top, a navigation bar features the 'WILEY' logo and menu items for 'home', 'learning paths', 'my activity', and 'my profile'. Below the navigation bar is a main content area with a 'WELCOME TO THE WILEY RESEARCHER ACADEMY' heading. The text below the heading states: 'Get started with all the resources you need to make you successful in publishing in high quality journals. The Wiley Researcher Academy equips you to meet all the challenges you will face before, during and after writing your research article.' To the right of this text is a photograph of two researchers in a lab. Below the text is a blue button labeled 'Start Learning Today' with a right-pointing arrow icon. Underneath this is a search bar with a dropdown menu set to 'All types' and a language selector set to 'EN'. At the bottom, there are two promotional tiles: 'GET STARTED!' with the text 'Learn about the Wiley Researcher Academy in my country.' and 'MY ACTIVE LEARNING PATHS' with a 'View review' link.

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Fellow



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Professor



Qualities of a successful scientific researcher

Research and publication: the essential link

Financing the research project

Selecting an appropriate journal

Best practices in writing scientific articles

Key components of a scientific article

Manuscript submission

Peer review

Open access to scientific literature

Managing research data

Ethical questions in writing scientific papers

The roles of the publisher and journal editors

Post-publication activities and driving visibility

Becoming a peer reviewer

Effective measurement and reporting

All current logins

Current logins by institution

All completed Learning Paths

**Completed Learning Paths
by Institution**

All completed programmes

Completed programmes by
institution

Evaluation scores

Evaluations scores by cohort

Evaluation scores by
institution



- Dashboards and configurable reports
- Monitor usage and learning benefits by institution, level of study, discipline, etc.
- Insight into researchers' strengths and weaknesses



"Getting educated and trained in the skills needed to publish research results, hypotheses, and models has never been more important: **Wiley** has taken an important initiative in developing an on-line platform that provides that education and assesses participants' progress. There is no doubt it will help scientists increase the impact of their studies."

Professor Aaron Ciechanover
Nobel Prize, Chemistry 2004

The key role of libraries in improving research outcomes



Quality
sources

+



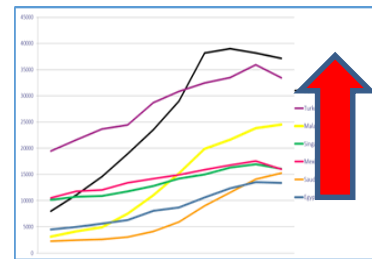
Convenient
access

+



Skills
Development

=



Increase in the
quantity and
quality of
research outputs