Nurturing a culture of responsible research for best quality outcome

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The University of Hong Kong

30th May, 2017.
5th World Congress on Research Integrity
The role of institutions in a global setting

Outline

- Overview of Research @ HKU
- Challenges for institutions with changing demand
- Promoting Responsible Conduct of Research @ HKU
- What institutions can do to nurture responsible research
Overview of HKU

- Research intensive
- Comprehensive with 10 faculties: Arts, Science, Medicine, Engineering, Dentistry, Law, Education, Architecture, Social Sciences, Business and Economics
- 16,000+ undergraduates (mostly local) and 12,000+ postgraduates (mostly non-local)
- 3,000+ academic research staff (1,100 professoriate)
Our 3+1 Is: Internationalisation, Innovation, Interdisciplinarity, IMPACT

INTERNATIONALISATION
To promote global citizenship and competitiveness, we plan to provide all students with at least one mainland China and one overseas learning opportunity by 2022.

INNOVATION
Is there life out there? Are we alone? We wish to continue encouraging critical questioning and thinking to innovate for change and social good.

INTERDISCIPLINARITY
By bringing together different and divergent minds, we aim to drive and catalyse new ways of thinking, new ideas and concepts and new ways of doing things.

IMPACT
From contributing to finding cures for the world’s greatest diseases, promoting oral hygiene in developing countries, to rebuilding homes in China, our aim is to embed impact into all of our academic and educational outcomes.
Note: Based on data obtained from the Hong Kong Research Grants Council website in May 2017.
Cross border research collaborations

Global Research Network @ HKU

Nature Index 2015, S188 China
Research publications from China

**TOP INSTITUTIONS**
The Chinese Academy of Sciences and the nation’s leading universities produce tens of thousands of papers every year. A sizeable portion of those rank among the world’s best.

- 250 papers published in 2015
- Papers in the world’s top 10%

**CHINESE ACADEMY OF SCIENCES**
Network of institutes headquartered in Beijing
36,996 papers / 19% in the top 10%

**ZHEJIANG UNIVERSITY**
Hangzhou
9,429 / 14%

**TSINGHUA UNIVERSITY**
Beijing
9,017 / 18%

**PEKING UNIVERSITY**
Beijing
9,030 / 20%

**FUDAN UNIVERSITY**
Shanghai
6,072 / 18%

**Nanjing UNIVERSITY**
Nanjing
5,207 / 19%

**UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA**
Hefei
4,512 / 22%

Rounded to nearest 250 papers.

**OUTPUT**
In the past decade, China’s share of the world’s research articles has surged from 13% to 20% — and its share of the world’s top-cited articles has shown similar growth.

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Quality research, Responsible research and Impactful research

2017 Research Management Colloquium
CITATIONS, IMPACT & INTERNATIONAL RANKING

12 May 2017 (Friday)
9:00 AM
Rayson Huang Theatre

ORGANIZER
President's Office,
The University of Hong Kong

SPONSOR
Elevenor
Research Integrity is the central and guiding principle for all the University’s scholarly activities

“In pursuing our research activities, all members of the University should clearly understand our responsibility to

◦ uphold the highest standard of professional conduct,
◦ abide by the University’s rules, policies and guidelines, and by relevant laws”

(Policy on Research Integrity, revised Jan 2013, Feb 2017)

Liaison Person on Research Integrity matters in each Faculty to strengthen communications

Director and Deputy Director of Education and Development for Research Integrity appointed since 2011
Research Integrity @ HKU

- Policy on Research Integrity
- Procedures for dealing with alleged staff misconduct in research
- Regulations governing students’ academic conduct concerning assessment
- Promoting responsible conducts of research
Promoting Responsible Conduct of Research

- University wide seminars on RCR
- Research integrity funding schemes for promotion of RCR
- Online RCR materials for self education
- Education and promotion of RCR practices for research students
Responsible Conduct of Research Seminars

- **RCR** Seminars for current and new staff at all levels
- Mandatory for all staff to attend to be eligible for internal research grants and conference support
- 14 seminars organized since March 2010, over 1,300 staff have attended
Responsible Conduct of Research Funding Scheme
Promoting Responsible Conduct of Research for research students

Case Studies on Research Integrity
A Companion to the Research Integrity - a Guide for Research Postgraduate Students at The University of Hong Kong
### Students’ perception of RCR @HKU

<table>
<thead>
<tr>
<th>Issues</th>
<th>Involved/Victim of (%)</th>
<th>Aware of/witness (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sloppy work</td>
<td>9</td>
<td>17</td>
</tr>
<tr>
<td>Data Manipulation</td>
<td>3</td>
<td>11</td>
</tr>
<tr>
<td>Data Fabrication</td>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>Data theft</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Data ownership</td>
<td>5</td>
<td>13</td>
</tr>
<tr>
<td>Plagiarism</td>
<td>–</td>
<td>12</td>
</tr>
<tr>
<td>Self–plagiarism</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>Unjustified authorship</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>Salami Publication</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>Bad mentoring</td>
<td>6</td>
<td>13</td>
</tr>
</tbody>
</table>
Lack of discussion with supervisors on:
- Research data management (22%)
- Authorship arrangements (37%)
- Issues of research misconduct (39%)
- Issues on mentoring (14%)
Research Integrity

As a world-class comprehensive university with research activities spanning all major disciplines, HKU always realises the vital importance of research integrity, and all members of the University must observe the highest standards of professional conduct in pursuing their research activities. The institutional policy and arrangements for safeguarding research integrity, as approved by the Council on January 29, 2013 and adopted with immediate effect, are set out in the following documents:

- Policy on Research Integrity
- Procedures for Dealing with Alleged Staff Misconduct in Research
- Regulations Governing Students’ Academic Conduct Concerning Assessment

Responsible Conduct of Research

HKU promotes and fosters the highest standards of conduct in the research activities of all of its members, and the University has introduced a range of initiatives including courses, seminars and a funding scheme.

- Responsible Conduct of Research

Research Data and Records Management

Effective research data and records management supports both high quality research and academic integrity. HKU's Policy on the Management of Research Data and Records was approved by the Senate on May 5, 2015. A Task Force will oversee the planning for the implementation.

- Policy on the Management of Research Data and Records
Around 110 participants from 20 countries: Australia, Bhutan, Cambodia, Canada, China, Hong Kong, India, Indonesia, Japan, Malaysia, Nepal, New Zealand, Pakistan, The Philippines, Singapore, South Korea, Sri Lanka, Taiwan, Thailand, USA
The role of institutions in promoting research integrity

- Determination and Commitment, Policies, resource and infrastructure support
- RCR education, skills training, data management system, supporting platforms
- Quality assurance, risk management
Responsibility and Accountability of Institutions

- Grant Agencies
- Collaborators
- Government
- Students
- Professors
- Publishers
- Industry
Institutional and individual levels of responsibility and commitments in promoting trustworthiness of research

Research is performed by individuals who engage in RCR, in an institution that is committed to RCR

Forstering a supportive research environment for best practices and quality research outcome
Thank you!